SELF STUDY REPORT FOR

CENTRAL AGRICULTURAL UNIVERSITY, IMPHAL

SUBMITTED TO

NATIONAL AGRICULTURAL EDUCATION ACCREDITATION BOARD

INDIAN COUNCIL OF AGRICULTURAL RESEARCH, NEW DELHI



Submítted by



CENTRAL AGRICULTURAL UNIVERSITY LAMPHELPAT, IMPHAL-795004, MANIPUR

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SELF STUDY REPORT FOR UNIVERSITYACCREDITATION

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NATIONAL AGRICULTURAL EDUCATION ACCREDITATION BOARD (NAEAB)

INDIAN COUNCIL OF AGRICULTURAL RESEARCH, NEW DELHI

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CENTRAL AGRICULTURAL UNIVERSITY LAMPHELPAT, IMPHAL

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SELF STUDY REPORT

FOR

B.TECH. DEGREE PROGRAMME IN FOOD TECHNOLOGY

COLLEGE OF FOOD TECHNOLOGY, LAMPHELPAT CENTRAL AGRICULTURAL UNIVERSITY

IMPHAL





Submítted to:

NATIONAL AGRICULTURAL EDUCATION ACCREDITATION BOARD (NAEAB), ICAR, NEW DELHI

PREFACE

India faced the challenge of providing food security to millions of its people soon after independence. The Research and Development initiatives taken by the Government of India resulted in the 'Green revolution' in the late 60s and early 70s. As a result of 'Green revolution' and various other efforts, India has made significant achievement through production of food grains, fruits and vegetables, milk, livestock production, fish production etc. and gained self-sufficiency in most of the areas of Indian Agriculture. However, contribution of engineering inputs (irrigation, soil and water conservation, farm mechanization, processing, reduction of harvest and post harvest losses, processing of milk, meat and fish and development of their products, farm structures, housing / shelter for livestock, fish ponds, utilization of renewable energy sources, utilization of agricultural, livestock fish waste and by-product, environment and agricultural interaction etc.) in these efforts were not optimum. But considering the nutritional security, livelihood security, economic sustainability and high generation of employment, a need was felt to develop and provide these engineering inputs.

Keeping in view the high potential of applications of food technology and value addition interventions in improving the agricultural scenario of NEH region and to address to the issues of shortage of trained human resource in this discipline, the College of Food Technology (COFT) was established in May 2015 by Central Agricultural University (CAU), Imphal at College of Agriculture, Imphal, Iroisemba as a twin College. Initially B.Tech. Food Technology, Programme, was started during 2015 at College of Agriculture campus and later on shifted to CAU Central Farm, Lamphelpat during May, 2019.

At B.Tech level, students are admitted only from all the State of NEH. Few seats are filled on all India bases through ICAR quota. The quota of various States is fixed. The State Governments recommend students (on the basis of competitive examinations within their state) for admission. Similarly ICAR nominate (on the basis of all India competitive examination) students for their quota.

Students of this college have excelled not only in curriculum but also in extracurricular activities and national level competitive examinations and the college is making continuous efforts to improve the quality of education offered here. The ICAR has introduced the procedure of accreditation, which help in assessing facilities available to impart the quality education offered by the college.

Since the college is due for accreditation since its inception, the present report provides all the necessary information about the college activities performed during last five years.

The University Level Task Force and the college level Task Force have done a great job in compiling information and bringing out this report to be submitted to Accreditation Board of ICAR. I convey my heartfelt thanks to all those, who are involved in preparation of this report.

(Prof. Ng. Iboyaima Singh)

Dean

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Self-Study Report for the Degree Programme, College of Food Technology, Lamphelpat, Central Agricultural University, Imphal (Manipur)

6.4. SELF-STUDY REPORT FOR THE PROGRAMME

For the College offering degree Programme, as per recommendation of the 5th Dean's Committees of ICAR/VCI/BSMA

6.4.1 Brief History of the Degree Programme

The College of Food Technology was established in the year 2015 as one of the constituent Colleges of Central Agricultural University, Imphal, Manipur. It is situated at Lamphelpat, Imphal West District of Manipur at 24°82'N latitude and 93°90'E longitudes with an approximate altitude of 790 metres above MSL. The campus of college spread over an area of 3 acres on the foothills of Langol Reserved Forest area. On the eastern boundary of the campus, Mary Kom road approaching from the Office of Deputy Commissioner, Imphal West passes through towards the Asian Games Village adjoining the Langol Hill on the northern side of the campus. On the southern and western fronts, the college is surrounded by the Central Farm of the Central Agricultural University, Imphal. The alluring hillside view and serenity of the campus provides for an excellent peaceful learning centre and an ideal atmosphere for academic and research activities.

The College of Food Technology, Imphal imparts education in the form of Bachelor of Technology (B. Tech.) in Food Technology. The College started its first academic programme *i.e.*, 4 year B. Tech. (Food Technology) programme from academic session 2015-2016 with intake capacity of 20 students. The course curriculum and syllabi of the degree programme are based on the model academic regulations and syllabi as proposed by the **5th Dean Committee of Indian Council of Agricultural Research (ICAR), New Delhi.** While designing curriculum, utmost care has been taken to consider the global development in Science & Technology to equip graduates to meet new challenges thrown open as a result of economic globalization and climate changes and preparing farmers and entrepreneurs for emerging opportunities of food technology and food processing at national and international level.

At present 10+2+4 pattern which comprises Student READY Experiential Learning Programme (ELP) I and II and Students READY Research Project and report writing for 3 weeks each in semester VII and also Students READY Seminar for personality development in the same semester are offered to the students. The whole of VIII semester is offered in the form of In-plant training of the students for 10 weeks in different industries and research institutes at national level. So far, students have been exposed to different skills and hands on training in different places including CSIR-Central Food Technological Research Institute (CFTRI), Mysuru, Amul, Anand, Gujarat, Patson Foods, Ahemadabad, Nilon's, Guwahati, etc. Moreover, the ELP have been conducted in food producing units of the state of Manipur which includes Thangjam Agro, Imphal, Meira Foods, Imphal, Modern Foods, Takyel Industrial Estate, etc. in different skill categories.



Fig. 1: Aerial view of the Campus of College of Food Technology, Lamphelpat, Imphal

The College of Food Technology, Imphal is an unique campus under the Central Agricultural University, Imphal with complete integration of all the three functions *viz.;* teaching, research and extension. The college has the mandate to develop, strengthen and promote the understanding, knowledge and skills to improve profitability and utilization in the field of food processing, packaging, storage and distribution of food product not only in Manipur but also in the entire North-Eastern Region of India. The college shall also endeavour to establish linkages with other scientific institutions of ICAR, other zonal and national bodies in the field of its domain located in the region and outside the region. The major mandates of the college are:

- Making provision for imparting education in food science and engineering.
- Advancement of learning and conducting research particularly in Food Technology and other allied sciences / technologies especially for the rural people of the state in general.
- Undertaking activities pertaining to major mandates *via*, education, research and extension as directed by the University from time to time.

Mission

 To train technical manpower, pursue high quality and high impact research, design and development of sustainable technologies/equipment related to food technology and disseminate the developed technology to the farmers' field/ entrepreneurs of NEH region of India.

Vision

In accordance with the vision of CAU, Imphal the vision of College of Food Technology is to produce world class professionals who are equipped to meet the demands of global outfits, have analytical abilities and entrepreneurship for making career of self-employment and as contributors, to be livelihood and food/nutritional security.

Objectives:

- To establish and develop excellent academic facilities for offering undergraduate and postgraduate education in the discipline of food technology, appropriate to various states of NEH region in particular and the country in general.
- To impart quality education so as to produce globally competitive graduates and post graduates in areas of food technology including inter disciplinary areas so that confident and capable human resource, suitable for working as scientists, academics, managers, entrepreneurs etc., could be developed.
- To establish specialized research laboratories fitted with state of art machineries equipment and instruments for taking up basic and applied research by the scientists/teachers and post-graduate students and experiential learning facilities including pilot plants for 'hands - on training' of undergraduates students.
- To carryout research to generate technology and extension of technology to the micro food processing unit and professional body.
- To develop and demonstrate modern and advanced food processing system

appropriate to NEH states which may help the farmers to improves their productivity and profitability while preserving and improving the environment.

 To develop need based improved agro-technologies and equipment for NEH region for household and on farm operations, post-harvest management and utilization of renewable sources of energy.



Fig.2 Inauguration of College of Food Technology, Lamphelpat on 2nd Feb., 2019



Fig.3 Inauguration of College of Food Technology, Lamphelpat on 2nd Feb., 2019 by DG, ICAR (Dr. Mahapatra) & Dr. R.S. Paroda, Chairperson, TAAS & Ex-Secretary, DARE

Accomplishments

At B.Tech. level, students are admitted only from all the State of NEH. Few seats are filled on all India bases through ICAR quota. The quota of various States is fixed. The State Governments recommend students (on the basis of competitive examinations within their state) for admission. Similarly ICAR nominate (on the basis of all India competitive examination) students for their quota. The intake capacity, number of students admitted, number of students graduated number of fellowship received by the students in various academic years are given in following two tables.

Student enrollment in the College has been getting increased gradually for each academic year. During recent past, however, some –signatory states are seeking for more allocation of seats for their students. The main reason might be the impressive performance shown by the students of this college at national level. Altogether, 18 students from two batches have already achieved their B. Tech. degree from the College. On an average, 100 per cent of passed out students secured first class in their final examination which is a morale booster and an achievement in itself. Students of this college have shown outstanding performance in the national level examinations. The following table highlights some of the major achievements of the passed out students in terms of ICAR-JRF and GATE examinations en route to their M. Tech. study in different IITs and other universities all over India.

Sl. No.	Year	Intake capacity	No. of students admitted	No. of students graduated	No. of students receiving scholarships
1	2015-16	20	08	08	01 merit scholarship, 07 state scholarship
2	2016-17	20	10	10	01 merit scholarship, 09 merit scholarship
3	2017-18	20	08	10	01 merit scholarship, 07 state scholarship
4	2018-19	27	07	07	01 merit scholarship, 06 state scholarship
5	2019-20	27	11	-	07 state scholarship, 03 NEC scholarship
6	2020-21	27	16	-	-

Table 1: Performance of the students during the academic year 2015 to 2022

Year	1 st	2 nd	3 rd	4 th	Total no. of students	Total scholarship
2015-16	08	-	-	-	08	08
2016-17	10	08	-	-	18	18
2017-18	08	10	08	-	26	26
2018-19	07	08	10	08	35	35
2019-20	11	07	08	10	36	35
2020-21	16	11	07	08	42	25
2021-22	20	16	11	07	54	-

Table 2: Total number of students available during various academic years

Table 3: Milestones achieved by the students of the College since its inception in 2015

S. No.	Name of Student	Year of passing out	ICAR-JRF	GATE	Major Subject	M. Tech.
1	Niamcha Lowang	2018	$\begin{array}{c} 2019\text{-}20\\ \text{ST}-1^{\text{st}}\\ \text{UPS}-2^{\text{nd}}\\ \text{Overall}-144^{\text{th}} \end{array}$	-	Food Technology	Anand Agricultural University, Anand, Gujarat
2	Sweety Ngangom	2018	-	2019	Food Technology	Tezpur University, Assam
3	Monika Konsam	2018	2020-21 UPS - 1 st OBC - 33 rd Overall - 91 st	2020	Food Technology	Jadavpur University, West Bengal
4	Bhavesh Datla	2019	-	2020 Overall – 19 th in Engineering Sciences; Overall – 1 st in Food Technology	Food Technology	Indian Institute of Technology, Kharagpur
5	Alok Das	2019	-	2020	Food Technology	Indian Institute of Technology, Varanasi
6	Rebika Salam	2019	2020-21 UPS – 2 nd	-	Food Technology	Tezpur University, Assam
7	W. Athoi	2018	_	2020	Food Technology	Tezpur University, Assam

Sl. No.	Year	Number of students qualified/Number of students placed					Number of students passed out
		JRF	SRF	GATE	M. Tech.	Other	
1.	2018	01	-	03	06	-	08
2.	2019	02	-	02	10	-	10

Table: 4.Number of students passed and secured M. Tech. in 2018-19 to 2019-20

Extracurricular activities:

As part of the academic activities of the college, the students have participated actively in every extra-curricular activities during various events organized in and outside the University. Some of the remarkable achievements of the students in extra-curricular activities have been listed below.

Sl. No.	Events (sports/literary/cultural meets)	State/ regional/ national level	Year	Position
1	Inter-collegiateYouthFestivalofCentralAgriculturalUniversityatCollegeofVeterinarySciences, Thenzawl, Mizoram	Regional	2018	Folk dance (group) – 2 nd On-the-spot painting – 2 nd (Ksh. Amitkumar Singh) Elocution – 2 nd (Rohan Singha) Mime (group) – 4 th
2	Inter-collegiate Youth Festival of CAU at College of Agriculture, Iroisemba, Imphal	Regional	2019	Cultural procession (group) – 2 nd Folk dance (group) – 3 rd Quiz – 3 rd (L. Bikramjit Singh and Bhavesh Datla)
3	Inter-collegiate Sports Meet of CAU at College of Agriculture, Iroisemba, Imphal	Regional	2019	100 m race – 2 nd (Arrowal Syngkon) 200 m race – 1 st (Arrowal Syngkon) Discus throw – 3 rd (L. Bikramjit)
4	OUGRI Night of National Institute of Technology, Manipur	Regional	2019	Debating competition – 3 rd (Rohan Singha)
5	National AgriUnifest at Raipur, Chhatisgarh	National	2020	Represented and participated in elocution, debating competition and ex-tempore speech (Rohan Singha)

Table 5: Extra-curricular activities participated by the students of the college

Additional information on monitoring mechanism for quality education

- Monthly meetings: The Dean College of Food Technology conducts monthly meetings with the faculties to evaluate the progress in the field of teaching, research and extension.
- Annual reports: Annual reports are prepared for the college based on teaching, research and extension education activities performed during the year in consideration. The reports are used for measuring the performances of the college during the particular year and serve as guidelines for future action plan

Student evaluation:

Students' advisory meeting is conducted every week by respective advisors and every month Students Advisory meeting is held along with the Dean of the college. He receives thefeedback from the students and gives direction to the faculties. The students are providing the feedback of course teachers who handle the classes during a particular semester in a prescribed proforma. The feedback of the students is analyzed and the inadequacies are properly addressed.

Special focus is paid for all round development of student to show their hidden talents in addition to their academic programme. The College organizes co-curricular and extra-curricular activities for overall development of student's personality and career. Annual College Week, Blood Donation Camp, Agricultural Education Day, Mahatma Gandhi's Anniversary programme, NSS, Physical Education, Sports, Literary activities etc. are also organized to give the opportunity to the students. The students also participate regularly inter collegiate event of University and National level competitive events.

College Administration

The overall administration of the academic, research, extension and other activities of the college including infrastructure development is monitored by the Dean, College of Food Technology, Imphal. The Academic and Administrative building of College is depicted in **Fig. 5**. The Dean is assisted by various teaching, non- teaching and non-technical members of the institution.



Fig 4: Administrative and Academic Building of the College



Fig. 5: Organizational structure of the College of Food Technology

College Dean's Office Establishment:

Sl. No.	Particulars	Response
1.	Whether Dean's post has been sanctioned by the appropriate authority as per ICAR Model	Yes
	Act/UGC guidelines	
2.	Date of selection/joining of present Dean	10 th June, 2022
3.	Mode of selection	Nomination
4.	Tenure	5 Years
5.	Total number of staff in Dean's office	One PA
6.	Infrastructure facilities (Details on infrastructure and networking facilities available)	 Computers with printers are available at the Dean's office with internet and UPS connectivity Copier facility is available with WiFi connectivity

6.4.2 Faculty

College of Food Technology initially was started as twin College with College of Agriculture, CAU, Iroisemba and hence some related departments, faculty and laboratories as required under fifth dean's committee recommendations are being utilized for smooth running of B.Tech. in Food Technology programme.

As per the Fifth Dean Committee, Five Professors, Ten Associate Professors and Thirty One Assistant Professors are needed to teach and guide the students of B. Tech. Food Technology, M. Tech Food Technology and Ph. D. Food Technology. We are offering only B. Tech. (Food Technology) at present. At this College the following Faculty members were involved in teaching and guiding the students of B. Tech. Food Technology during 2015-2020. As per the recommendations by ICAR/UGC/VCI/Other regulatory bodies, the present faculty strength of the college is yet to be filled up to its full strength. As per faculty recommended by ICAR/UGC/VCI/Other regulatory bodies the faculty strength are sufficient. However, faculties from other constituent colleges including College of Agriculture, Iroisemba, Dhanamanjuri College of Arts, Dhanamanjuri College of Science, Churachandpur College, scientists from AICRP and ICAR are being assigned to complete the curriculum of the undergraduate degree programme of this college. The teaching pedagogy include a judicious blend of different teachings modules, classroom-based teaching with an equal weightage on practical training and exposure to inculcate pragmatic skills and perk up student's confidence to meet requirement of various client organization as well as higher education in other national and international academic institutions..

The names of various faculties (permanent, on contract, from sister organization, guest etc.) their qualification and various courses taught by them is given below. As mentioned, these faculties are assigned the responsibility for the B. Tech. programme only.

Sl. No.	Faculty Associated with Food Technology programme	Faculty in place	Vacant Position	Faculty recommended By ICAR/UGC/VCI/ Other regulatory bodies
1.	Professor	00 (Guest lecturers, CoA)	*04	05
2.	Associate Professor	01(Sanctioned Post) 06 (Guest lecturers, CoA)	0	10
3.	Assistant Professor	12 regular, 07(contract)	*06	30
4	Guest Lecturers	6		
	Total	32	10	45

 Table 6: Present status of faculty strength of the College

*The above statement regarding the vacancy of Professor and Assistant Professor is as per the advertisement published by the University Authority.

 Table 7(a).
 List of Faculty (Permanent)

SI. No.	Name	Department and Institute	Courses Covered
1.	Dr. Ng. Joykumar Singh	Associate Professor College of Food Technology, CAU, Imphal	Post Harvest Engineering, Unit operation , ELPs
2.	Dr. Ashok Kumar	Assistant Professor College of Food Technology, CAU, Imphal	Heat and mass Transfer, Equipment design, Thermodynamics
3.	Dr. H. Nanita Devi	Junior Plant Breeder	Processing of spice crops
4.	Dr. T. Sunanda Devi	Junior Agronomist	Processing and value addition cereals and pulses.

5.	Dr. Nilima Karam	Entomologist	Crop production and disease management
6.	Dr. L. Sophia Devi	Food Scientist	Processing of horticultural crops
7.	Er. Jimmy Laishram	Assistant Professor Dept. of Computer Engineering MTU Manipur	Computer Programming (Theory and practical)
8.	Dr. K. Stina Devi	Extension	Entrepreneurship development
9.	Dr. Ph. Sumitra Devi	Plant pathology	Crop production and disease management
10.	Dr. Kh. Gayatri Devi	Horticulture	Processing of Fruits and plantation crops
11.	Dr. Th. Anand Singh	Biochemistry	Instrumental analysis, Biochemical analysis
12.	Dr. P. Sarangi	Microbiology	Industrial microbiology

Table 7(b). List of Guest Lecturers (2020-21)

SI. No.	Name	Department and Institute	Courses Covered
13.	Dr. Th. Subhaschandra Singh	Assistant Professor Dept. of Mechanical Engineering NIT Manipur	Food Thermodynamics (Theory and practical)
14.	Er. Laishram Birjit Singh	Technical Assistant Dept. of Mechanical Engineering NIT Manipur	Food Thermodynamics and Heat and Mass Transfer (Practical classes)
15.	Dr. Th. Tamphasana Devi	Assistant Professor Dept. of Civil Engineering NIT Manipur	Fluid Mechanics (Practical classes)
16.	Dr. Shuma Adhikari	Assistant Professor Dept. of Electrical Engineering NIT Manipur	Basic Electrical (Practical classes)
17.	Er. Asem Nabadavis	Assistant Professor Dept. of Mechanical Engineering MTU Manipur	Food Thermodynamics (Theory)
18.	Er. Jimmy Laishram	Assistant Professor Dept. of Computer Engineering MTU Manipur	Computer Programming (Theory and practical)

Table 8. Information regarding faculties, their qualification and courses taken for theB. Tech. (Food Technology)

Area	Since 2015 to 2020					
	Subject	Taught by	Highest			
			qualification			
Food	Fundamentals of	Dr. Angam Raleng (Assistant	Ph. D.			
Process	Food Processing	Professor)				
Technology		Dr. Punykashore M. (Assistant	Ph. D.			
		Professor)				
	Processing	Dr. A.K. Mishra, Deputy Director of	Ph. D.			
	Technology of	Research, CAU, Imphal				
	Cereals	Dr. Ng. Joykumar Singh (Associate	Ph. D.			
		Professor)				
	Processing	Dr. Angam Raleng (Assistant	Ph. D.			
	Technology of	Professor)				
	Legumes and	Dr. A.K. Mishra, Deputy Director of	Ph. D.			
	Oilseeds	Research, CAU, Imphal				
		Dr. Th. Renuka Devi (Associate	Ph. D.			
		Professor)				
	Processing	Dr. L. Sophia Devi, (Junior	Ph. D.			
	Technology of	Scientist)				
	Fruits and	Dr. Ps. Mariam Anal (Assistant	Ph. D.			
	Vegetables	Professor)				
	Processing	Dr. M. Norjit Singh, (Assistant	Ph. D.			
	Technology of	Professor)				
	Liquid Milk	Dr. Angam Raleng (Assistant	Ph. D.			
		Professor)				
	Processing	Dr. M. Norjit Singh, (Assistant	Ph. D.			
	Technology of	Professor)				
	Dairy Products	Dr. Angam Raleng (Assistant	Ph. D.			
		Professor)				

Processing	Dr. A.K. Mishra Deputy Director of	Ph. D.
Technology of	Research, CAU, Imphal	
Beverages	Dr. Ng. Piloo (Associate Professor)	Ph. D.
Processing of	Dr. L. Sophia Devi, (Junior	Ph. D.
Spices and	Scientist)	
Plantation Crops	Dr. Ps. Mariam Anal (Assistant	Ph. D.
	Professor)	
Processing of	Dr. M. Norjit Singh, (Assistant	Ph. D.
Meat and Poultry	Professor)	
Products	Dr. Angam Raleng (Assistant	Ph. D.
	Professor)	
Processing of	Dr. Wanglar Chimwar, (Junior	Ph. D.
Fish and Marine	Scientist)	
Products	Dr. Ch. Basuda Devi (Senior	Ph. D.
	Scientist), ICAR RC Manipur	
	Centre, Lamphelpat	
Bakery,	Mr. Punyakashore M. (Assistant	Ph.D.
Confectionery	Professor)	
and Snack	Dr. Ng. Piloo (Associate Professor)	Ph.D.
Products	-	
Food Packaging	Dr. Angam Raleng (Assistant	Ph. D.
Technology and	Professor)	
Equipment	Dr. A.K. Mishra, (Associate	Ph. D.
	Professor)	
Sensory	Dr. Angam Raleng (Assistant	Ph. D.
Evaluation of	Professor)	
Food Products	Mr. H. Dayanidhi Singh (Assistant	Ph. D.
	Professor)	
Fundamental of	Dr. Angam Raleng	Ph. D.
food Technology	(Assistant Professor)	
	Dr. Ng. Joykumar Singh	Ph. D.

		(Associate Professor)	
Food Safety	General	Dr. Punyakishore M. (Assistant	Ph. D.
and Quality	Microbiology	Professor)	
Assurance		Dr. Lokesh Mishra (Associate	Ph. D.
		Professor)	
	Food	Dr. Punyakishore M. (Assistant	Ph. D.
	Microbiology	Professor)	
		Dr. P.K. Sarangi, (Scientist)	Ph. D.
	Industrial	Dr. P.K. Sarangi, (Scientist)	Ph. D.
	Microbiology	Dr. Punyakishore M. (Assistant	Ph. D.
		Professor)	
	Food Chemistry	Mr. H. Dayanidhi Singh (Assistant	M. Sc.
	of Macronutrients	Professor)	
		Dr. Angam Raleng (Assistant	Ph. D.
		Professor)	
	Food Chemistry	Mr. H. Dayanidhi Singh (Assistant	M. Sc.
	of Micronutrients	Professor)	
		Dr. L.K. Mishra (Associate	M. Sc.
		Professor)	
	Food	Dr. Punyakishore M. (Assistant	Ph. D.
	Biochemistry and	Professor)	
	Nutrition	Dr. Th. Anand Singh (Scientist)	M. Sc.
	Biochemistry	Dr. Punyakishore M. (Assistant	Ph. D.
		Professor)	
	Food	Dr. Punyakishore M. (Assistant	Ph. D.
	Biotechnology	Professor)	
	Food Additives	Mr. H. Dayanidhi Singh (Assistant	M. Sc.
	and Preservatives	Professor)	
		Dr. L. Mishra (Associate Professor)	Ph. D.
	Instrumental	Dr. Th. Anand Singh (Scientist)	Ph. D.
	Techniques in	Mr. H. Dayanidhi Singh (Assistant	M. Sc.

	Food Analysis	Professor)	
	Food Plant	Dr. Th. Gopeshwor Singh(Assistant	Ph. D.
	Sanitation	Professor)	
		Dr. Angam Raleng (Assistant	Ph. D.
		Professor)	
	Food Quality,	Mr. H. Dayanidhi Singh (Assistant	M. Sc.
	Safety Standards	Professor)	
	and Certification	Dr. Ng. Piloo (Associate Professor)	Ph. D.
Food	Food	Dr. S. Sunderlal Singh (Assistant	Ph. D.
Process	Thermodynamics	Professor)	
Engineering		Dr. Th. Subhaschandra Singh	Ph. D.
		(Assistant Professor, NIIT, Manipur)	
	Fluid Mechanics	Dr. S. Sunderlal Singh (Assistant	Ph. D.
		Professor)	
		Dr. Th. Tamphasana Devi (Assistant	Ph. D.
		Professor, NIIT, Manipur)	
	Post-Harvest	Dr. Ng. Joykumar Singh (Dean)	Ph. D.
	Engineering	Dr.A.K. Mishra, Deputy Director of	Ph. D.
		Research, CAU, Imphal	
	Heat and Mass	Dr. L. Sophia (Assistant Professor)	Ph. D.
	Transfer in Food	Dr. S. Sunderlal Singh (Assistant	Ph. D.
	Processing	Professor)	
	Unit Operations	Dr. Ng. Joykumar Singh (Associate	Ph. D.
	of Food	Professor)	
	Processing - I	Dr. Angam Raleng (Assistant	Ph. D.
		Professor)	
	Unit Operations	Dr. Ng. Joykumar Singh (Associate	Ph. D.
	of Food	Professor)	
	Processing - II	Dr. A.K. Mishra, Deputy Director of	Ph. D.
		Research, CAU, Imphal	
	Food	Dr. L. Sophia (Assistant Professor)	Ph. D.

	Refrigeration and	Dr. S. Sunderlal Singh (Assistant	Ph. D.
	Cold Chain	Professor)	
	Food Storage	Dr. Angam Raleng (Assistant	Ph. D.
	Engineering	Professor)	
		Mr. H. Dayanidhi Singh (Assistant	M.Sc.
		Professor)	
	Food Process	Dr. S. Sunderlal Singh (Assistant	Ph. D.
	Equipment	Professor)	
	Design	Mr. H. Dayanidhi Singh (Assistant	M.Sc.
		Professor)	
	Instrumentation	Dr. S. Sunderlal Singh (Assistant	Ph. D.
	and Process	Professor)	
	Control in Food	Dr. A.K. Mishra, Deputy Director of	Ph.D.
	Industry	Research, CAU, Imphal	
Food	Business	Dr. S. Bhogin Singh, (Associate	Ph. D.
Business	Management and	Professor)	
Management	Economics	Prof. Y. Chakrabarty Singh	Ph. D.
		(Professor)	
	ICT Applications	Dr. Shuma Adhikari, Assistant	Ph. D.
	in Food Industry	Professor, Dept. of Electrical	
		Engineering, NIT Manipur	
		Er. Saroj Kumar Behera (Assistant	M. Tech.
		Professor)	
	Marketing	Dr. Angad Prasad, (Professor)	Ph. D.
	Management and	Prof. L. Nabachandra Singh	Ph. D.
	International	(Professor)	
	Trade		
	Project	Dr. S. Bhogin Singh, (Associate	Ph. D.
	Preparation and	Professor)	
	Management	Dr. Y. Chakrabarty Singh	Ph. D.
		(Professor)	

	Communication	Dr. Dayaram, (Assistant Professor)	Ph. D.
	and Soft Skills	Dr. Angad Prashad (Professor)	Ph. D.
	Development		
	Entrepreneurship	Dr. Dayaram, (Assistant Professor)	Ph. D.
	Development	Dr. N. Okendro Singh (Professor)	Ph. D.
Food Plant	Student READY-	Dr. Ng. Joykumar Singh (Associate	Ph. D.
Operations	Experiential	Professor)	
	Learning	Dr. Feroze Sheikh (Associate	Ph. D.
	Programme - I	Professor)	
	Student READY-	Dr. Ng. Joykumar Singh (Associate	Ph. D.
	Experiential	Professor)	
	Learning	Dr. H. Dayanidhi Singh (Assistant	Ph. D.
	Programme - II	Professor)	
	Student READY	Dr. Ng. Joykumar Singh (Associate	Ph. D.
	– Research	Professor)	
	Project	Dr. Th. Gopeshwor Singh (Assistant	Ph. D.
		Professor)	
	Student READY	Dr. Th. Gopeshwor Singh (Assistant	Ph. D.
	- Seminar	Professor)	
		Dr. L. Sophia (Assistant Professor)	Ph. D.
		Dr. Punyakishore M. (Assistant	Ph. D.
		Professor)	
Basic	Engineering	Dr. L. Sophia (Assistant Professor)	Ph. D.
Engineering	Drawing and	Er. Asem Nabadavis, Assistant	M.Tech.
	Graphics	Professor, Dept. of Mechanical	
		Engineering, MTU, Manipur	
	Basic Electrical	Er. Saroj Kumar Behera (Assistant	M. Tech.
	Engineering	Professor)	
		Dr. Shuma Adhikari, Assistant	Ph. D.
		Professor, Dept. of Electrical	
		Engineering, NIT Manipur	
	Workshop	Dr. L. Sophia (Assistant Professor)	Ph. D.
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	Technology	Dr. Ng. Joykumar Singh (Associate	Ph. D.
		Professor)	
	Computer	Er. Saroj Kumar Behera (Assistant	M. Tech.
	Programming and	Professor)	
	Data Structure	Er. Jimmy Laishram, Assistant	M. Tech.
		Professor, Dept. of Computer	
		Engineering, MTU Manipur	
	Basic Electronics	Er. Saroj Kumar Behera (Assistant	M. Tech.
	Engineering	Professor)	
		Er. Jimmy Laishram, Assistant	M. Tech.
		Professor, Dept. of Computer	
		Engineering, MTU, Manipur	
Basic	English	Dr. K. Maheshwari Devi, (Assistant	Ph. D.
Sciences and	Language	Professor)	
Humanities	Crop Production	Dr. R.K. Dilip Singh, Professor	Ph. D.
	Technology	Dr. A.K. Bijaya Devi, Professor	Ph. D.
		Dr. Edwin Luikham, Professor	Ph. D.
		Dr. Jamkhogin Lhungdim, Professor	Ph. D.
	Engineering	Er. Saroj Kumar Behera (Assistant	M. Tech.
	Mathematics -I	Professor)	
		Dr. Gangmei Sobha (Professor)	Ph. D.
	Engineering	Er. Saroj Kumar Behera (Assistant	M. Tech.
	Mathematics -II	Professor)	
		Dr. Gangmei Sobha (Professor)	Ph. D.
	Environmental	Dr. Th. Gopeshwor Singh (Assistant	Ph. D.
	Sciences and	Professor)	
	Disaster		
	Management		
	Statistical	Shri N. Gopimohan Singh,	M. Sc.
	Methods and	(Associate Professor)	

Numerical	Dr. N. Okendro Singh, (Professor)	Ph. D.
Analysis		

Credentials of the Faculty:

All faculty members of the college are qualified and recognized persons of their fields. The college has adequate proportion of experienced and young faculty members. Many faculty members in the college have received awards for their excellence in teaching and research activities.

6.4.3 Technical and Supporting Staff

The technical staff and other supporting staff of College of Food Technology are attached with the Dean's office for administrative, convenience and being allotted to other departments as per requirements and skills imparted. Other than these staffs some Skilled and Unskilled labours are hired on contractual basis. The administrative and accounts staff are centralized in the college and are operating under the direct control of the Dean as part of Dean's office.

Table: 9 Information of Technical and Supporting Staff of College of Food Technology

	In position	Vacant
COFT, Imphal	14*	2
Other supporting staffs from AICRP scheme		
H. Sarat Singh	Field man	
H. Subash Chandra Singh	Field man	
N. Daya Singh	Field man	
K. Lalit Singh	Field man	

* These staffs are commonly shared from COA, Imphal at present.

Since the college is newly established, only some technical staff (permanent) has been assigned the responsibilities for the multiple activities related to the College. Apart from that 20 outsourced contractual staff is engaged based on the skills required.

6.4.4. Classrooms, Laboratories, Dean's Room:

The regular teachings have being conducted in the four numbers pre-fabricated classroom and two laboratories in the college. Since a permanent structure is yet to be erected, the required practical classes are conducted at different laboratories in nearby campuses or under CAU constituent colleges namely NIT Manipur campus, CAEPHT Sikkim etc.

- 1. UG Class room : Four (04) well furnished with projector facility and desktop
- 2. UG Practical Room : Two (02) with laboratory equipments

Training Hall : One (01) with well furnished chairs and tables





Fig. 6. Dean's Room

Details of Class rooms and Laboratories:

a) **Number of class rooms**: (UG = 4)





Fig 7: Classroom of the college





Fig 8: Practical / Training Hall of the College

All class rooms are provided with LCD projectors and audio-visual aids for better delivery of lectures. The faculty use power point presentations to make the concepts/techniques clearly understandable to the students. The important lectures are taught with videos. A table, podium, whiteboards/screen, black board etc. are available in each class room for the use of teachers.

Functional Laboratory: 2 no.



Fig 9: Functional Laboratory of the college





Fig. 10: Bakery Oven and Tray Driers



Fig. 11: Vacuum packaging and Protein Analysis Equipment



Fig. 12 Shrink Packaging and Vacuum packaging Machine



Fig. 13 Fruit Extraction machine and Tray/Cup packaging Machine



Fig. 14 Shrink Packaging and Vacuum packaging Machine



Fig. 15 Rotary Evaporimeter and Autoclave Machine



Fig. 16 Laminar Flow and Incubator Machine





Fig. 17 Tray Dryer and Crown Capping Machine



Fig. 18. Soxlet Plus Apparatus and Weighing and Microwave Oven



Fig. 19. Processing Lab. and Chemicals



Fig. 20. Honey Processing Unit (Pilot Plant)



Fig. 21(a). Pineapple Powder Processing Pilot Plant



Fig. 21(b). Pineapple Powder Processing Pilot Plant



Fig. 22. Pineapple Primary Processing Mobile Van



Fig. 23. Pineapple Juice Extraction Mobile Van with washing Unit



Fig. 24. Seed Processing Lab. and Seed Storage Warehouse

At present, there is a common laboratory for the practical experiments of the students. Apart from that, major experiments are conducted in other nearby institutes including NIT, Manipur, Manipur Technical University, Imphal, S.K. Womens' College, Nambol and CAEPHT, CAU, Sikkim.



Fig. 25. Indigenous Processing Wares/gares and Tillage equipments museum



Fig. 26. Indigenous Processing Wares/gares and Tillage equipments museum



Fig. 27. Computer Room

List of major Equipment:

The laboratory is equipped with some of the basic and advanced equipments needed for the experiments as recommended in the academic regulation of the 5th Deans' Committee. So far, the necessary laboratory furnishings have yet to be installed permanently as the College is under construction.

The available equipments are enlisted below.

Table	10: Major	Equipment	in Processing	and Food	Engineering	Department
			0		0 0	-

 Dietary fibre extraction unit 	 Coconut tree climber
 Colour lab hunter 	 Coconut dehusker
 Refrigerated centrifuge CPR 24 	 Foot Sealer
 Steam Jacketed cooking kettle 	 Fermenter
 Fruit and Vegetable Juice and paste Processing Plant 	 Hand sealer
 Electronics Grain Moisture Meter 	 Angle of Repose apparatus
 Vacuum Packaging Machine 	 Vacuum oven
 Shrink Packaging Machine Model-CP- 2030 	 Micro Pulverizer (hammer mill)
 Steam Distillation set u 	 Fruit pulper
 Angle of Repose apparatus 	 Digital Humidity Sensor and Indicator

 Electronic weighing balance ZSP-350 	 Automatic Foam Fill Seal
(300g	packaging Machine
 Micrometer Precise Thickness 	 Rubber Roll Sheller
 Aspirator/ Cyclone Separator 	 Shrink Wrapping Machine
 Automatic Fibre Extraction system 	 Digestion Unit
 BOD Incubator with shaker 	Electronic Balance
 Digital Precision 	 Digital balance model –(A-224) make Contech Capacity-220gm
 Digital Refractrometer PAL 	 Vibratory Screen Grader
 Tray dryer (12 trays) 	 Pulverizer/Gravy machine
	(2HP)
 Autoclave (40 Litres) 	 Logic gate analyzer
 Double distillation unit (2.5 L) 	 Frequency counter
 Digital Weighing Balance 	 Oscilloscope
 Infra-red Moisture Meter 	 Microwave oven
 Hot air oven 	 Dough kneading machine
 Analytical balance 	 Vegetable cutting machine
 Bench top pH meter 	 Wet grinding machine
 pH meter 	 Water Bath
 Pilot plant Spray Dryer 	 OTG Oven
 Complete Unit of Biscuits Making Machine 	 Ginger Paste and Powder Making Machine
 Complete unit of Potato Chips Machine 	 Complete Unit of Noodle Making Machine
 Mini Dal Mill 	 Vegetable Washing Machine
 Seed processing plant 	Potato Slicer
 Turmeric Grinder 	 Ginger Processing machine (Complete Unit)
 Cottage scale soya paneer plant 	 Multi stage evaporator with aroma recovery system
 Laminar Flow 	Ginger /Turmeric peeler cumpolisher

 Plate count 	 Corking machine
 Digital refractometer 	 Induction sealing machine

Theory and practical batches for the Degree Programme:

The number of intake students is manageable due to limited number of seats.

Table: 11. Average number of students in theory and practical classes

Sl.	Particulars of curricula	Batch of student	Batch of student
No.		in <i>Theory</i> class	in <i>Practical</i> class
1	B. Tech. (Food Technology)	16	16

The class rooms and laboratories are sufficient to meet course curricula requirement of the degree programme

6.4.5 Conduct of Practical and Hands-on-Training:

Theory and Practical batches for the Degree Programme

There are manageable number of students (Maximum 16) who are kept in one batch during Theory & Practical classes to ensure better delivery of information, encourage students' participation and active monitoring.

The undergraduate courses involve conducting practical experiments as per credits allotted to the specified courses and hands on training and field/lab practical are for courses.

Year **B.** Tech. (Food Technology) Batch of students in theory class **Batch of students in practical class** 2015-16 08 08 2016-17 09 09 10 2017-18 10 2018-19 07 07 2019-20 11 11 16 2020-21 16 2021-22 20 20

Table 12: Number of students in theory and practical classes of the college

Short duration training/visit

During the course of study students also visited the following industries for short duration training. These industries include Thangjam Agro (Likla Foods), Imphal, Meira Foods, Imphal, Korouhanba Spices, Imphal, Modern Foods, Imphal, etc.

In order to conduct the practical classes of the students of the College, the students along with the concerned faculty undergo regular visit to other established colleges and institutes for conducting practical classes, namely NIT Manipur, CAEPHT Sikkim and S. K. Womens' College Nambol, Manipur with due approval of the University authority.

Study Tour

Under student ready program in VII Semester students were deputed for Study Tour (two - three weeks). Earlier all the students during course of their study used to undertake study tour twice (two to three weeks duration each time), one to NEH region and one at places outside North-east (All India Tour). The tour to NEH region was stopped after implementation of 5th Dean's committee. Now students are going only on All India Study Tour. However, due to covid-19 the tour couldn't be undertaken during 2020-21. The details of various tours undertaken by the students are given below.

Year	Places Visited	
2016-17	NEHU, Shillong	
	ICAR Research Complex for NE Region, Umiam, Barapani	
	• CPGS, Barapani (CAU)	
	• IIT, Guwahati	
	Tezpur University, Assam	
	NERIST, Arunachal Pradesh	
2017-18	NEHU, Shillong	
	Tezpur University, Assam	
	• Yak Centre, Birang, Arunachal Pradesh	
	• KVK, Tawang, Arunachal Pradesh	
	Kiwi Winery, Bomdilla, Arunachal Pradesh	
	ICAR Research Complex, Medziphema, Nagaland	

Table 13: Details of study tour of the students during 2016-20

	All India Study Tour		
2017-18	Parle Industries, Bhuj, Gujarat		
	Amul, Anand, Gujarat		
	Anand Agricultural University, Anand, Gujarat		
	ICAR-Central Institute of Fisheries Technology, Mumbai		
	KVK and Agricultural Fair, Goa		
	 NIRJAFT (National Institute of Research on Jute and Fibre 		
	Technology, Kolkata)		
	• CIRCOT (Central Institute for Research on Cotton Technology),		
	Mumbai		
2018-19	Sri Jagannath Flour Mill, Orissa		
	University of Agricultural Sciences, Bangalore		
	Pelagic Foods, Bangalore		
	National Institute of Agricultural Extension Management		
	(MANAGE), Hydearabad		
	M/s. Sagar Feeds and food processing industry, Cuncolim, Goa		
	ICAR- Central Coastal Agricultural Research Institute, Goa		
2019-20	CSIR-Central Food Technology Research Institute (CFTRI),		
	Mysuru		
	Bakery Heaven, Mysuru		
	University of Agricultural Science, Bangalore		
	ICAR-Central Institute of Fisheries Technology, Cochin, Andhra		
	Pradesh		
	CIFE (Central Institute for Fisheries Education), Versova,		
	Mumbai		

Conduct of the hands on training

a) Hand on training within the College

Under student ready program in VII semester students of B. Tech (Food Technology) are being provided hands on training under Skill Development Experiential Learning Programme I and II (Skill Development/In-plant training) in the following pilot plants.

Table 14: Details of the Experiential Learning programme of B. Tech. (FoodTechnology)

Year	Name of the students	Title of Experiential Learning
2018	 SweetyNgangom, 	 Chak-hao (Black scented rice)
	 Bharat Singh 	processing leading to
	 Irom, Konsam Monika, 	development of different
	 NiamchaLowang, 	products including Chak-hao
	• W. Athoi,	noodle, Chak-hao cookies,
	 Arvind Kumar Yadav, 	Chak-hao GulabJamun, Chak-
	 L. Bhaktaraj, 	hao based instant baby food,
	 Ph. Manojkumar Singh 	 Squash chips, fish processing,
		 Pineapple powder production,
		 Bakery products including cup
		cakes, cookies, water chestnut
		soup mixture
2019	• S. Romita,	 Processing of ginger to
l	 BhaveshDatla, 	produce ginger candy, dried
	 Rebika Salam, 	ginger,
	• U. Priyambada,	 Amla candy,
	 Alok Das, 	 Guava rolls,
	 EvenstarKharbani, 	 Pomelo juice, lemon RTS,
	 DaniNado, 	 U-morok (King Chilli) pickle,
	 BanteilangKharbani, 	 Bakery products including cup
	 Rohan Singha, 	cakes, cookies
	 Lalhruaichhungi 	
2020	 SuchitraKeisham, 	 Bakery products including
	 M. Hareena Devi, 	cookies, cakes, buns;
	 Nillachandra Y., 	 Processing of ginger to
	 Y. Nikhil, L. 	produce ginger candy and
	 Bikramjit Singh, 	dried ginger pickle,
	 L. Paikhomba Singh, 	amla+ginger pickle,
	 Sober Soibam, 	 Chak-haokabok (puffed rice),

 Ksh. Amitkumar, 	 Heimang (<i>Rhuschinensis</i>)
 ArrowalSynkon, 	balls,
 Tyngshainmi Kharsoh 	 Dehydrated ready to cook
	vegetable mix,
	 Indigenous fruits and vegetable
	processing



Fig 28. ELP conducted by the students of the College (Pineapple Ring)



Fig 29. ELP conducted by the students of the College (Pomello Juice)



Fig 30: ELP conducted by the students of the College (Amla Candy)



Fig. 31. ELP conducted by the students of the College



Fig. 32. ELP conducted by the students of the College (Honey packing)



Fig. 33. ELP conducted by the students of the College (Guava ladder)





Fig. 34. Different products by students during ELP of the College



Fig. 35. Selling of ELP products by students to University VIPs



Fig. 36. Launching of pineapple RTS products by Hon'ble MPS and Vice Chancellor, CAU during ELP of the College

Hands on training outside the college

The students of Food Technology discipline undergo Two five weeks Skill Development Trainings under Hands-on-training after IV and VI semester. The industrial attachment training for 10 weeks and Experiential Learning on campus programme of 12 weeks is carried out in VII semester. The requisite facilities for conduction of experiential learning programme are provided to students to practically fulfill programme requirements and achieve desired skills. Within VIII semester students perform 12 Weeks Project planning and report writing as per ICAR guidelines. The facilities for project are provided to the students as per requirement.

Students have undergone the hands on training for the skill development during the training programme to make them fit for demonstrating the responsibilities effectively in the professional career. During the training students developed the skill in the field of testing, food processing & value addition etc.



Fig. 37. Institute visit at Indian Institute of Technology, Guwahati June 2017



Fig. 38. Industrial visit at Central Institute of Fisheries Technology (CIFT), Cochin Jan 2020



Fig. 39. Institute visit at Central Food Technological Research Institute (CFTRI), Mysore Dec 2019

Table	15:	Titles	of	Experi	iential	Learning	Modules	for	B.	Tech	(Food	Technology)
		imple	mer	nted du	ring 20	015-16 to 2	2020-21					

Sl. No.	Title of EL	Year of Sanction	EL Location	Discipline
1.	Vegetable Processing	2017-18	College of Food Technology	B.Tech (Food Tech)
2.	Fruit Processing	Fruit Processing 2017-18 Meira Foods		B.Tech (Food Tech)
3.	Chak-hao (Black rice) Processing	2018-19	College of Food Technology	B.Tech (Food Tech)
4.	Spice processing	2018-19	Korouhanba Spices	B.Tech (Food Tech)
5.	Indigenous fruits	2019-20	College of Food Technology	B.Tech (Food Tech)
6.	Bakery products	2019-20	Likla foods	B.Tech(Food Tech)

Apart from the above training programmes, the students are engaged in skill development summer training of 10 weeks duration during their VIII semester. They undergo trainings in different institutes and industries of higher repute outside the state of Manipur.

Table 16: Places of Training for Skill	Development Summ	er Training of	f 10 weeks
duration (during VIII semes	ter)		

Year	List of Training Institutes B. Tech (Food Technology)
2017-18	CFTRI, Mysore
2018-19	Nilon's, Guwahati, Patson Foods, Guwahati and Amul, Ahmedabad
2019-20	CFTRI, Mysuru
2020-21	CFTRI, Mysuru



Fig.40. Industrial visit of the students during In-plant Training



Fig.41: Industrial exposure during In-plant Training of the students

6.4.6. Supervision of students in UG/PG / Ph. DProgrammes: (number of

qualified faculty in relation to the intake of students, as per the guidelines in the matter.)

There is no PG or Ph. D. programme in Food Technology. All the students of B.Tech (Food Technology) are given project work for one semester. During this project work they are allotted a guide/supervisor and a topic for research work. After completion of the research work they analyze the data and submit the report. They make a presentation also on the work carried out by them. The titles of the thesis/report submitted by student are given below.

Under student ready program in VIII Semester students were deputed to CSIR-Central Food Technological Research Institute, Mysore (Internship/In-plant/Skill Development II for 13 weeks in Semester VIII) for working in their various research projects. Few students undertook training at College of Agriculture Imphal, Manipur. The list of the report submitted by students on the basis of work undertaken at CFTRI during 2019 is given below.

Sl.	Year	Title of report	Name of the students
No.			
1	2019	Studies on the development of valueaddedproductsusingcilantro(Eryngium foetidum)and Other spices	Laishram Bhaktaraj Singh
2	2019	Studies on Development of Omega-3 Fatty Acids Enriched Halwa, A traditional Indian Confection	Bharat Singh Irom
3	2019	EMR based Drying of Vegetable for Improved Quality	Arvind Kumar Yadav
4	2019	Value added products from Bamboo leaves	Wahengbam Athoi
5	2019	Preparation of enzyme modified hen egg white powder	Niamcha Lowang
6	2019	Development and nutritional evaluation of ready to eat products from sweet potato	Monika Konsam
7	2019	Development and formation of sugar free gulab jamun by using bulk sweeteners (Malleitol syrup)	Ngangom Sweety Chanu

 Table 17: Title of Thesis/ Reports submitted by the students under Student-READY

 Research Programme

8	2019	Development and quality evaluation of	Ph. Manojkumar Singh
		ready to eat (RTE) gel like	
		intermediate moisture product from	
		juice blend of pineapple (Ananas	
		comosa) and water melon (Citrullus	
		blantus)	

Table 18: Reports submitted by the students under Student-READY ResearchProgramme

Sl.	Year	Title of report	Name of the students
No.			
1	2018	Development and formulation of Chak-	Ngangom Sweety Chanu
		hao (Black rice) based Gulab Jamun	and Arvind Kumar Yadav
2	2018	Development and formulation of Chak-	Bharat Singh Irom and
		hao (Black rice) based noodle	Monika Konsam
3	2018	Development and sensory evaluation of	Manojkumar Pheiroijam
		deep fried chayote chips	and Wahengbam Athoi
4	2018	Development of supplementary food	Niamcha Lowang and
		from Chak-hao	LaishramBhaktaraj Singh
5	2019	Development of Black Rice (Chak-hao)	Lalhruaichhungi and
		cake	Sorokhaibam Romita Devi
6	2019	Development and Sensory Evaluation	Bhavesh Datla and Rebika
		of aromatic black rice Idli	Salam
7	2019	Development of Instant Soup Powder	Alok Das, Dani Nado and
		using Heikak (Water caltrop) as Base	U. Priyambada
		Material	

OUTSTANDING STUDENTS



Ms. NIAMCHA LOWANG 1st RANK (ST Category) in ICAR-JRF in Food Science Technology SCORE: 340/640 Presently pursuing M. Tech. from Anand Agricultural University, Gujarat



Mr. BHAVESH DATLA 19th ALL INDIA RANK in GATE in Engineering Science under sections THERMODYNAMICS and FOOD TECHNOLOGY GATE SCORE: 741 Presently pursuing M. Tech. from IIT KHARAGPUR



Ms. MONIKA KONSAM ALL INDIA ICAR-JRF RANK: OVERALL – 91st OBC – 33rd UPS – 1st SCORE: 214 Presently pursuing M. Tech. from Jadavpur University, Kolkata

6.4.7. Feedback of stakeholders :(Students, Parents, Industries, Employers, Farmers *etc.*)

In our college, the faculty members are made Student Advisors for the students admitted. There has to be at least one meeting (mostly on Saturday) of the students with their Advisors. Students raised their various problems (academic, personal etc.) with the Advisor. The Advisors helped the students to solve their problem. In case, help of some particular faculty member/ staff/ Dean were needed, Advisors took their help and solved the problem.

There is a register with the Student Welfare Officer of the College, in which any student can raise their problems (related to academic, hostels etc.). The Student Welfare Officer brought the problem to the notice of the Dean of the College. Dean discussed the issue with the Student/ Group of Students/faculties/officials and took remedial measures.

About 18 complaints were registered in the complaint register by the students with regard to repairing of electrical items and civil work in Hostels during the 2016-2020 such as sufficient water heater (Geysers) and fitting of extra lighting system in the girls' hostel premises which was attended and provided in 2-3 days' time. New dedicated internet Wi-Fi

as well as LAN connection was provided with two nos. each in Boys' and Girls' hostel apart from college class rooms as requested by students. Digitalization of library books and journals as suggested by the fourth years were initiated and process is in progress. During first semester of academic year 2016 complaints was received regarding purchase of chemicals and sufficient glass wares conducting practical classes which were attended within a week. Few complaints on procuring of laboratory equipments for practical classes and experiential learning were received and later on were tackled by procuring the necessary equipments with approval of competent authority in 2020. On 10/09/2020 a complaint on providing water cooler and refrigerator was received from the Boy's and Girl's Hostel which was attended and rectified in due course of time. On 24/12/20 a complaint was received regarding repairing of chairs and beds in New boys' and Girl's Hostel which was immediately attended by JE and his team.

During Farewell of the final year students they sometimes raised the problem faced by them during their stay of four years in the college. After knowing their problems Dean and Faculty tried to implement their suggestions.

In every Semester a meeting of Dean with representative of Students is conducted to discuss their problems related to teaching, hostels, etc. Generally Students raised their issue which used to be discussed in the meeting. The issues which can be solved at the College level were settled in the College itself. The issues which needed the attention of the Vice-Chancellor were sent to him for satisfactory solution.

CAU organized Agricultural Fair every year in various states of NEH. Many parents and guardians of the students visited these fairs. Moreover, parents also visited the college or talked to various officials over phone. During these visits and discussions they appreciate the facilities and academic atmosphere of the college. Sometimes they also made various suggestions. Many times college implemented these suggestions.

Extension council meeting of the college and University were regularly held every year. During these meeting, progressive farmers, members of FPO, members of SHG, state government officials, entrepreneurs etc. participated and gave their feedbacks and suggestions.

During hands on training students interacted with various industries. During discussion of owners/ officials of these industries with various faculty members they appreciated the theoretical, practical knowledge and hard work of the students. During their hands on training students interacted/ worked with entrepreneurs, farmers, FPO,

SHG etc. During discussion with the faculty members these people appreciated the help, knowledge and hard work of the students.



Fig. 42. Visit of Hon'ble Union Minister of state and other VIPS to Exhibition stall



Fig. 43. Visit of Shri Mohanbhai Kundariya, Hon'ble Union Minister of State, Agriculture



Fig. 44. Students participating in Regional Food Mela



Fig. 45. Students selling processed products from ELP



Fig. 46. Students undergoing ELP on King chilly pickles production



Fig. 47 Students exposure visit to KVK Hanbung, Senapati



Fig. 48. College foundation day celebration 19th Sept.2022



Fig. 49. Students planting on fields

6.4.8 Student Intake and Attrition:

The College of Food Technology presently offers Under Graduate Degree Programme in Food Technology i.e., B. Tech. (Food Technology) which is of 4 years duration. The admission to the college is given preference to students of NEH region. The quota for various states of NEH and ICAR are fixed for each academic year. State governments and ICAR take competitive examination and also nominate selected candidates for admission in CAU. If the desirous student fulfills the eligibility criteria, then they can be admitted to the college.

State	Arunachal Pradesh	Manipur	Meghalaya	Mizoram	Nagaland	Sikkim	Tripura	ICAR	Total
No. of students	02	04	02	02	02	03	04	03	22

 Table 19: State Wise Quota for B.Tech (Food Technology)

Table: 20. Student intake and attrition in the programme for the five years

Name of the Degree Programme	Actual students admitted in last five years						I	Attriti	ion (%)	
B. Tech. (Food Technology)	2015-16	2016-17	2017-18	2018-19	2019-20	2015-16	2016-17	2017-18	2018-19	2019-20
	10	08	10	07	16	0	0	0	0	0

6.4.9. ICT Application in curricula delivery:

The college strives to implement maximum incorporation of Information and Communication Technology (ICT) in its curricula delivery for effective academic activities of the students. At this juncture of the pandemic, the applications have become more suitable. For the purpose, the college has purchased three paid Zoom platforms which allows more convenient and effective monitoring of the online course delivery. Apart from that, there are audio-visual aids including LCD projectors, sound amplifier system and wireless internet connectivity in all the existing classrooms. For some particular courses, paid versions of softwares like MATLAB, Auto-CAD and COMSOL have been purchased for the use of teachers and students of the college.

Computer facilities:

A fully functional computer laboratory for the students is currently unavailable in the college. However, unlimited internet facility to the staff and students is provided. Wi-Fi Internet hotspot connectivity is installed and running at the Dean's Office, Academic building, administrative buildingand both the hostels since January, 2021. Internet connectivity procured through broadband connection of BSNL provides 50 Mbps WiFi internet connectivity in the College round the clock.



Fig. 45: Students' Computer Lab

Learning resources like books, photos, life specimen and audio-visual aids like power-point presentation, videos are used to assist the students to meet the expectation for learning defined by ICAR recommended curriculum.

Faculties are provided with computers to access the online open coursework and online portal to use it for the curriculum delivery. Faculty members access various resources for use in teaching, research and extension activities. Students are also encouraged to access various software applications in agriculture.

College Library

The Library provides circulation and reference services. The Library also has access to online e-journals through ICAR web portal. Photocopying and printing facility is also available in the Library. Details of library are as given below: Area of Library: 48.5 sq. m.

Sl.	Particulars	Details
No.		
1	Present staff	Library assistant – 01
2	Availability of Wi-Fi	Wi-fi facilities area available in the library with a
		band width speed of 50 MBps from BSNL network.
3	Books	For College of Food Technology: 1477 books
4	Other reading materials	National and local newspaper such as The Sangai
		Express, The Telegraph, The Times of India, etc.
		Magazines like India Today, Down To Earth,
		Pratiyogita Darpan, Civil Services Chronicle,
		Kurukshetra, Yojana, Agriculture Today, etc.
5	Research journals	Students and faculty can access journals through online portal of ICAR
6	Internet with	Two
	computers	
7	Sitting capacity	10
8	Stocking	The College library adopted Open Access System for
	arrangement	accessing library collection and classified according
		to Dewey Decimal Classification (DDC) scheme (22
		Ed.) and arranged in APUPA pattern, stacked in
		different parts like, Subject books Literature books,
		General books, Reference books, Competitive Exam
-		books, Thesis, Back volumes, Seminar scripts, etc.
9	Operating nours	9:30 am to 4:30 pm
10	Books available in	Food Science, Food Engineering, Processing of
	the library	Vegetables, Processing of Fruits, Processing of Dairy
		products, Microbiology, Biotechnology, Food
		Chemistry, Nutrition, Environmental Science and
		Disaster Management, Civil Engineering, Mechanical
		Chamietry, of Micropytricate Food Decemberry,
		Engineering Pusineer Monogement
		Engineering, Dusiness Management, Entrepreneurship Development Project Preparation
		etc

 Table 21: Details of the college library



Fig 46: Library facilities at the college

Hostels:

The College has one separate hostel each for boys and girls in the campus. Each hostel has an area of 1400 sq. m. with student capacity of 28 students.



Fig. 47 Boys' Hostel Building of the college



Fig 48: Girls' Hostel building of the college

Sports and Recreation Facility:

The students are provided with different indoor and outdoor games for their physical activity and recreation to keep them physically fit and healthy. At present, a sports ground is under the process of construction at the earliest.



Fig.49: Students participating in recreation activity



Fig. 50. Students Badminton court



Fig. 51. Students Gym facility

Conference Hall:

The College has a conference hall with an area of 107.5 sq. m. and sitting capacity of 50 people. The hall is equipped with LCD projector and sound system for multiple uses in different events.
How frequently the conference	Republic day (once a year)
hall is used and purpose for being	College foundation day (once a year)
use	Independence Day (once a year)
	Inauguration programmes (numerous times a year)
	Workshops and trainings (numerous times a year)
	Teachers' Day (once a year)
	Students' fresher's day (once a year)

Table 22: Utilization of Conference Hall of the college

- **6.4.10.** The information pertaining to 6.4.1 to 6.4.9 has been provided for UG programme *i.e.*, B. Tech. (Food Technology) of College of Food Technology, CAU, Imphal correctly.
- **6.4.11.** Since the accreditation of programmes is related to the All India Admission from ICAR and also having weightage for College accreditation, therefore the data presented in the section 6.4 is liable to the verification at any stage.

6.4.12. Certificate

I, the **Dean, College of Food Technology, CAU, Lamphelpat** hereby certify that the information contained in Sections 6.4.1 to 6.4.9 are furnished as per the record available in the college and degree awarding university.

15th December, 2022

अधिग्ठाता Dean खाद्य प्रौद्योगिकी महाविद्यालय College of Food Technology के कृ वि CAU इम्फाल Imphal

Dean, College of Food Technology, CAU, Imphal

STUDENTS FEEDBACK FORM

- 1. Name of the Student : Chinglensana Lourembam
- 2. Admission no: 6FT-18
- 3. Academic Year : 2018
- 4. Name of the program studied : B.Tech (Food Technology)
- 5. Designation: Student
- 6. Mobile No: 8787379506
- 7. Email.Id: lorembam.yai@gmail.com
- 8. Feedback:

SI.No	Parameters	Ratting
1	Curriculum &Syllabi of the courses provide sufficient knowledge in the area of study, has good balance between theory and application and fulfilling your expectation	2
2	Usage of teaching aids and ICT in the class by faculty to facilitate teaching and give quality education	3
3	Teaching quality, fairness in the assessment processes (internal evaluation , quiz, assignments, etc) and freedom to adopt new technique /education tools	1
4	Opportunities in the college for research activities and relevance with practical/lab work	2
5	Curriculum has prospects for supporting higher education, career orientated /employability	2
6	Overall learning experience	2

*select your ranking on the scale of 1 to5 for each of the following parameter (1-Excellent, 2-Very good, 3-Good, 4-Fair, 5-Poor)

Recommendation if any for course improvement:-

Chinglensane Laumbam

Signature of the student

STUDENTS FEEDBACK FORM

- 1. Name of the Student :
- 2. Admission no:
- 3. Academic Year :
- 4. Name of the program studied :
- 5. Designation:
- 6. Mobile No:
- 7. Email.Id:
- 8. Feedback:

NaochaTongbram 9FT-18 2018 B.Tech (Food Technology) Student 8787597391 naochatongbram007@gmail.com

SI.No	Parameters	Ratting		
1	Curriculum &Syllabi of the courses provide sufficient knowledge in the area of study,has good balance between theory and application and fulfilling your expectation			
2	Usage of teaching aids and ICT in the class by faculty to facilitate teaching and give quality education			
3	Teaching quality, fairness in the assessment processes (internal evaluation , quiz, assignments, etc) and freedom to adopt new technique /education tools			
4	Opportunities in the college for research activities and relevance with practical/lab work	2		
5	Curriculum has prospects for supporting higher education, career orientated /employability	2		
6	Overall learning experience	2		

*select your ranking on the scale of 1 to5 for each of the following parameter (1-Excellent,2-Very good,3-Good, 4-Fair, 5-Poor)

Recommendation if any for course improvement:

1. To give importance to employability of the student after graduation of higher studies.



Signature of the student

Action taken: Feedback highlighted the requirement of more emphasis on the employability of the student graduating from the college. Smart classroom has been set up and initiated for preparation of JRF, GATE and other competitive exams.

STUDENTS FEEDBACK FORM

- 1. Name of the Student : Nillachandra Yendrenbam
- 2. Admission no: 3

3FT-17

- 3. Academic Year :2017
- 4. Name of the program studied : B.Tech (Food Technology)
- 5. Designation: Student
- 6. Mobile No: 7005778757
- 7. Email.Id: enqoyen@gmail.com
- 8. Feedback:

SI.No	Parameters	Ratting
1	Curriculum & Syllabi of the courses provide sufficient knowledge in the area	2
	of study, has good balance between theory and application and fulfilling your expectation	
2	Usage of teaching aids and ICT in the class by faculty to facilitate teaching and give quality education	2
3	Teaching quality, fairness in the assessment processes (internal evaluation, quiz, assignments, etc.) and freedom to adopt new technique /education tools	1
4	Opportunities in the college for research activities and relevance with practical/lab work	2
5	Curriculum has prospects for supporting higher education, career orientated /employability	2
6	Overall learning experience	2

*select your ranking on the scale of 1 to5 for each of the following parameter (1-Excellent, 2-Very good, 3-Good, 4-Fair, 5-Poor)

Recommendation if any for course improvement:

- 2. The institute needs to balance and focus on the employability of the student after graduation of higher studies.
- 3. Funding and support from VC is very necessary.

Nillachandre Y.

Signature of the student

Action taken: Feedback highlighted the requirement of more emphasis on the employability of the student graduating from the college. Smart classroom has been set up and initiated for preparation of JRF, GATE and other competitive exams.



FOR

COLLEGE OF FOOD TECHNOLOGY, LAMPHELPAT

CENTRAL AGRICUL/TURAL UNIVERSITY, IMPHAL



Submítted to:

NATIONALAGRICULTURALEDUCATIONACCREDITATIONBOARD INDIANCOUNCIL OF AGRICULTURALRESEARCH NEW DELHI-110011

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SELF-STUDY REPORT FOR THE COLLEGE OF FOOD TECHNOLOGY, LAMPHELPAT, CENTRAL AGRICULTURAL UNIVERSITY, IMPHAL, MANIPUR

6.5. Self-Study Report for the College

The College of Food Technology was established on 17th May, 2015 as one of the constituent Colleges of Central Agricultural University, Imphal, Manipur. It is situated at Lamphelpat, Imphal West District of Manipur at 24°82'N latitude and 93°90'E longitudes at an approximate altitude of 790 metres above MSL. The campus of college spread over an area of 3 acres on the foothills of Langol Reserved Forest area. On the eastern boundary of the campus, Mary Kom road approaching from the Office of the Deputy Commissioner, Imphal West passes through towards the Asian Games Village adjoining the Langol Hill on the northern side of the campus. On the southern and western fronts, the college is surrounded by the Central Farm of the Central Agricultural University, Imphal. The alluring hillside view and serenity of the campus provides for an excellent peaceful learning centre and an ideal atmosphere for academic and research activities.

The College of Food Technology, Imphal imparts education in the form of Bachelor of Technology (B. Tech.) in Food Technology. The College started its first academic programme *i.e.*, 4 year B. Tech. (Food Technology) programme from academic session 2015-2016 with intake capacity of 20 students.

The course curriculum and syllabi of the degree programme are based on the model academic regulations and syllabi as proposed by the 5th Dean Committee of Indian Council of Agricultural Research (ICAR), New Delhi. While designing curriculum, utmost care has been taken to consider the global development in Science & Technology to equip graduates to meet new challenges thrown open as a result of economic globalization and climate changes and preparing farmers and entrepreneurs for emerging opportunities of food technology and food processing at national and international level.

At present 10+2+4 pattern which comprises Student READY Experiential Learning Programme (ELP) I and II and Students READY Research Project and report writing for 3 weeks each in semester VII and also Students READY Seminar for personality development in the same semester are offered to the students. The whole of VIII semester is offered in the form of In-plant training of the students for 10 weeks in different industries and research institutes at national level. So far, students have been exposed to different skills and hands on training in different places including CSIR-Central Food Technological Research Institute (CFTRI), Mysuru, Amul, Anand, Gujarat, Patson Foods, Ahemadabad, Nilon's, Guwahati, etc. Moreover, the ELP have been conducted in food producing units of the state of Manipur which includes Thangjam Agro, Imphal, Meira Foods, Imphal, Modern Foods, Takyel Industrial Estate, etc. in different skill categories.



Fig. 1: Aerial view of the Campus of College of Food Technology, Lamphelpat, Imphal

The College of Food Technology, Imphal is an unique campus under the Central Agricultural University, Imphal with complete integration of all the three functions *viz.;* teaching, research and extension. The college has the mandate to develop, strengthen and promote the understanding, knowledge and skills to improve profitability and utilization in the field of food processing, packaging, storage and distribution of food product not only in Manipur but also in the entire North-Eastern Region of India. The college shall also endeavour to establish linkages with other scientific institutions of ICAR, other zonal and national bodies in the field of its domain located in the region and outside the region. The major mandates of the college are:

- Making provision for imparting education in food science and engineering.
- Advancement of learning and conducting research particularly in Food Technology and other allied sciences / technologies especially for the rural people of the state in general.
- Undertaking activities pertaining to major mandates *via*, education, research and extension as directed by the University from time to time.



Fig. 1: Aerial view of the Campus of College of Food Technology, Lamphelpat, Imphal

Mission

To train technical manpower, pursue high quality and high impact research, design and development of sustainable technologies/equipment related to food technology and disseminate the developed technology to the farmers' field/ entrepreneurs of NEH region of India.

Objectives:

- To establish and develop excellent academic facilities for offering undergraduate and postgraduate education in the discipline of food technology, appropriate to various states of NEH region in particular and the country in general.
- 2) To impart quality education so as to produce globally competitive graduates and post graduates in areas of food technology including inter disciplinary areas so that confident and capable human resource, suitable for working as scientists, academics, managers, entrepreneurs etc., could be developed.
- 3) To establish specialized research laboratories fitted with state of art machineries equipment and instruments for taking up basic and applied research by the scientists/teachers and post-graduate students and experiential learning facilities including pilot plants for 'hands - on training' of undergraduates students.

- To carryout research to generate technology and extension of technology to the micro food processing unit and professional body.
- 5) To develop and demonstrate modern and advanced food processing system appropriate to NEH states which may help the farmers to improves their productivity and profitability while preserving and improving the environment.
- 6) To develop need based improved agro-technologies and equipment for NEH region for household and on farm operations, post-harvest management and utilization of renewable sources of energy.

6.5.1 College Administration

The overall administration of the academic, research, extension and other activities of the college including infrastructure development is monitored by the Dean, College of Food Technology, Imphal. The Academic and Administrative building of College is depicted in Fig. 3. The Dean is assisted by various teaching, non-teaching and non-technical members of the institution.



Fig 2: Administrative and Academic Building of the College



Fig. 3: Organizational structure of the College of Food Technology

Sl. No.	Particulars	Response
1.	Whether Dean's post has been sanctioned by the	Yes
	appropriate authority as per ICAR Model	
	Act/UGC guidelines	
2.	Date of selection/joining of present Dean	14 th July, 2022
3.	Mode of selection	Regular
4.	Tenure	5 years
5.	Total number of staff in Dean's office	One PA, one MTS for
		performing the official works
6.	Infrastructure facilities (Details on infrastructure	• Computers with printers
	and networking facilities available)	are available at the Dean's
		office with internet and
		UPS connectivity
		• Copier facility is available
		with Wi-Fi connectivity

6.5.1.1. College Dean's Office Establishment:

6.5.1.2. Monitoring Mechanism for Quality Education

Teaching

At the beginning of every semester course registration is done immediately after getting admission. The conduct of theory and practical classes are reviewed by the Academic In-charge and the Dean, College of Food Technology, Imphal.

Undergraduate degree programme

- Mid semester, practical and final theory examinations are conducted to assess the students. Assignments are regularly given to students in each of the courses related to the curriculum
- External system of evaluation followed for both theory and practical for each course related to the curriculum
- Academic counseling is done every week by assigned student advisors
- Monthly quiz programmes and group discussions are arranged for the students to ascertain their proficiencies and knowledge
- Students who are academically weak are given special guidance and extra lectures are conducted for their improvement.

Faculty Research

a) Externally funded projects

- 1. "Development and Evaluation of Drying Systems for Important Spices of North Eastern States" funded by DST Govt. of India. Project cost= Rs.27.00 lakhs [P.I.]
- "Establishment of CAU-BDT rural cluster project of processing and value addition to pineapple in Chandel district of Manipur" funded by DBT, Govt. of India, Project cost = 41.45 lakhs. 2018 [P.I.]
- 3. Tribal Sub Plan Project as "Enhancing Socio-economic status and livelihood security of Tribal farmers of North East Hill States through Agricultural Interventions" [Co-PI].
- 4. PFDC sponsored by NCPAH, New Delhi (Co-PI).
- 5. Farmers first Project [Project Member]

Intramural projects:

- "Design and Fabrication of Low Cost Solar Cabinet Dryer" sponsored by CAU, Imphal [P.I.] Project cost= Rs.30,000/-(completed)
- "Development and Performance Evaluation of Low Cost Drying Technology for Some Important Spices of Manipur" sponsored by CAU, Imphal [P.I.] Project Cost=Rs.1.25 Lakh (completed)
- "Development and performance Evaluation of manually operated pineapple harvester" sponsored by CAU, Imphal [P.I.], Project cost = Rs.85,000/- (Completed Project)
- Solar Assisted poultry incubator sponsored by CAU, Imphal [P.I.], Project cost = Rs.1,55,000/- (Completed Project)

S1.	Year	Title of report	Name of the	Place of work
No.			students	
1	2018	Development and formulation of Chak-hao	Ngangom Sweety Chanu and Arvind	College of Food Technology, Central
		(Black rice) based Gulab Jamun	Kumar Yadav	Agricultural University, Lamphelpat, Imphal,
2	2018	Development and	Bharat Singh Irom	Manipur College of Food
		formulation of Chak-hao (Black rice) based noodle	and Monika Konsam	Technology, Central Agricultural University, Lamphelpat, Imphal, Manipur
3	2018	Development and sensory evaluation of deep fried	Manojkumar Pheirojiam and	College of Food Technology Central

Students research guided by Teachers

		chayote chips	Wahengbam Athoi	Agricultural University,
				Lamphelpat, Imphal, Manipur
4	2018	Development of supplementary food from Chak-hao	Niamcha Lowang and Laishram Bhaktaraj Singh	College of Food Technology, Central Agricultural University, Lamphelpat, Imphal, Manipur
5	2019	Development and Formulation of Sugar Free Gulab Jamun by Using Bulk Sweetener (Maltitol Syrup)	Ngangom Sweety Chanu	CSIR-Central Food Technological Research Institute (CFTRI), Mysuru
6	2019	Studies on Development ofOmega-3FattyAcidsEnrichedHalwa,ATraditionalIndianConfection	Bharat Singh Irom	CSIR-Central Food Technological Research Institute (CFTRI), Mysuru
7	2019	Development and nutritional evaluation of ready to eat products from sweet potato	Monika Konsam	CSIR-Central Food Technological Research Institute (CFTRI), Mysuru
8	2019	Development and Quality Evaluation of Ready to Eat (Rte) Gel Like Intermediate Moisture Product From Juice Blend of Pineapple (<i>Ananas comosus</i>) and Watermelon (<i>Citrullus</i> <i>lanatus</i>)	Pheiroijam Manojkuar Singh	CSIR-Central Food Technological Research Institute (CFTRI), Mysuru
9	2019	StudiesontheDevelopmentofValueAddedProductsusingCulantro(Eryngiumfoetidum)and othersSpices	Laishram Bhaktaraj Singh	CSIR-Central Food Technological Research Institute (CFTRI), Mysuru
10	2019	Development of Black Rice (Chak-hao) cake	Lalhruaichhungi and Sorokhaibam Romita Devi	College of Food Technology, Central Agricultural University, Lamphelpat, Imphal, Manipur
11	2019	Development and Sensory Evaluation of aromatic black rice Idli	Bhavesh Datla and Rebika Salam	College of Food Technology, Central Agricultural University, Lamphelpat, Imphal, Manipur
12	2019	Development of Instant Soup Powder using Heikak (Water caltrop) as Base Material	Alok Das, Dani Nado and U. Priyambada	College of Food Technology, Central Agricultural University, Lamphelpat, Imphal, Manipur
13	2019	Thermal analysis on boiling of egg	Evenstar Kharbani, Rohan Singh, and	College of Food Technology, Central

			Banteilang Kharbani	Agricultural University, Lamphelpat, Imphal,
				Manipur
14	2021	Development and Sensory	Hijam Merina Devi	College of Food
		Evaluation of		Technology, Central
		Beetroot Ready To Serve		Agricultural University,
		(Rts) Beverage Infused		Lamphelpat, Imphal,
		With Mint And Ginger		Manipur
		Juice		_
15	2021	Development and sensory	Tongbram Naocha	College of Food
		evaluation of Kachai	Singh	Technology, Central
		Lemon Tea		Agricultural University,
				Lamphelpat, Imphal,
				Manipur

Extension

The faculty of College of Food Technology has organized a number of extension activities. These activities are monitored by the Dean and University Officers regularly and annually by obtaining reports.

Table 1: Extension activities of the college

Activity	2017-18	2018-19	2019-20	2020-21	2021-22
Participation in CAU	1	Nil	1	1	-
Regional Agri Fair					
COVID Awareness	Nil	Nil	1	1	1
Programme					
Skill imparting/Capacity	Nil	2 nos.	1	1 (3 days)	3
building training		(6 days each)	(6 days)		(5 days each)
programme on Bakery					

Measures taken to improve the quality of education, research and extension

Education

- Industrial and institute related exposure visits related to the courses offered to the students
- Recognition and awards are given to best students at university level
- Educational talk are arranged inviting experts from different fields
- Assignments and exams are conducted on regular basis

Research

• Encouraging students to actively participate in workshops, webinars and conferences

- Experimental learning programme of two different modules is conducted for 12 weeks each and 10 weeks in plant training for skill generation at different industries and research institutes in India
- Students undergo Research project as part of the syllabus during VII semester under the guidance and supervision of the faculty. As part of the work, project reports are prepared and submitted to the college by the students.

Impact of monitoring with reference to students' excelling in academics, research and extracurricular activities

Academics

Since its inception, the College of Food Technology, Imphal has produced 18 (eighteen) B. Tech. Graduates in Food Technology. The passed out students are constituted mainly from the North-eastern states of India. There were students from other parts of the country including Uttar Pradesh, Bihar and Rajasthan who admitted through ICAR nomination. Although small in number, the college has been able to contribute towards the development of quality human resources in the form of graduate and subsequently higher studies and other competitive examinations. Of the 18 students graduated from the college, 12 are currently undergoing M. Tech. degree course in Food Technology in reputed national institutions Anand Agricultural University, Anand, Indian Institute of Technology Kharagpur, Indian Institute of Technology Varanasi, Central Agricultural University, Imphal and Tezpur University, Assam. One student is preparing for the Union Public Services Examination (UPSC) while the other three students are pursuing for employment opportunities in appropriate places. So far, two (2) of the students graduated received ICARJRF during their M. Tech. studies while five (5) students are enjoying GATE fellowship and another 6 (six) students received respective state government fellowships during their M. Tech. studies. Faculties are also encouraging the passed out and current students to appear for various competitive examinations including ICAR-JRF, ARS, UPSC, GATE, GRE, TOEFL, etc. Besides, placement cell of the college is facilitating career guidance and personality development programmes that aimed at higher employability of the students in their future.

Year	No. of students	Students in higher studies (M. Tech.)	Employment status
2019	8 (B. Tech.)	7	1
2020	10 (B. Tech.)	5	2
2021	10	4	2
2022	7	-	-

 Table 2: Academic achievements of students graduated from the College

Research

Research activities of this college are starting to make significant contributions in the development of innovative and high impact food production technologies. The research activities carried out mainly during the Student READY Experiential Learning Programme, Student READY research programme and Student READY In-plant Training Programme as part of the recommended syllabus of the ongoing degree programme are benefitting the students to gain practical knowledge and skills in a major way. Different value addition technologies and innovative methods of food processing are developed during the above mentioned research programmes. The technologies developed during these programmes have been a regular content in the CAU Research Bulletin and other referenced national journals for the last few years.

Sl. No.	Title of the Technology
1	Standardized blended RTS beverage using pineapple and ginger
2	Standardized lemon RTS with local medicinal herbs
3	Standardized chak-hao (black scented rice) noodle
4	Standardized chak-hao (black scented rice) gulabjamun
5	Formulation and Standardization of chak-hao (black scented rice) super kabok (puffed rice) with chia seeds and flax
6	Standardized chak-hao (black scented rice) cookies
7	Formulation and Standardization of chak-hao (black scented rice) instant baby food
8	Standardized dehydrated ready to cook mixed vegetable

Table 3: Technologies designed and developed in the college during the last five years(2015-2021)

9	Ginger, garlic and U-morok (King chilli) pickle
10	Formulation and standardization of water chestnut (caltrop) soup with local medicinal herbs
11	Standardized Heimang (Rhus chinensis) balls
12	Standardized squash chips
13	Standardized chak-hao (black scented rice) cakes and cookies
14	Pineapple powder production
15	Formulation and standardization of Chak-hao (black scented rice) instant kheer mix

One of the most significant achievements of the technologies developed by the college is formulation and standardization of Chak-hao (black scented rice) instant kheer mix. This technology has become a commercial success after the memorandum of understanding signed between the CAU and Rima Foods, Imphal in the month of January 2021. Moreover, the pineapple powder produced in the college is expected to be one of the major innovations considering the preferred quality of the fruit and marketing constraints due to difficult access to the pineapple growing areas in the hilly regions of the state.

Accomplishments

At B.Tech. level, students are admitted from all the State of NEH. Few seats are filled on all India bases through ICAR quota. The quota of various States for admission to the college is fixed. The State Governments recommend students (on the basis of competitive examinations within their state) for admission. Similarly ICAR nominate (on the basis of all India competitive examination) students for their quota. The intake capacity, number of students admitted, number of students graduated number of fellowship received by the students in various academic years are given in following two tables.

Student enrollment in the College has been getting increased gradually for each academic year. During recent past, however, some –signatory states are seeking for more allocation of seats for their students. The main reason might be the impressive performance shown by the students of this college at national level. Altogether, 35students from four batches have already achieved their B. Tech. degree from the College. On an average, 100 per cent of passed out students secured first class in their final examination which is a morale booster and an achievement in itself. Students of this college have shown outstanding performance in the national level examinations. The following table highlights some of the major achievements of the passed out students in terms of ICAR-JRF and GATE

examinations en route to their M. Tech. study in different IITs and other universities all over India.

S1. No.	Year	Intake capacity	No. of students admitted	No. of students graduated	No. of students receiving scholarships
1	2015-16	20	8	8	1 merit scholarship, 7 state scholarship
2	2016-17	20	10	10	1 merit scholarship, 9 merit scholarship
3	2017-18	20	8	8	1 merit scholarship, 7 state scholarship
4	2018-19	27	7	7	1 merit scholarship, 6 state scholarship
5	2019-20	32	11	-	1 merit scholarship, 7 state scholarship, 3 NEC scholarship
6	2020-21	32	16	-	1 merit scholarship, 4 Ishan Uday scholarship, 11 NEC/state scholarship
7	2021-22	32	20	-	1 merit scholarship, 13 NEC/state scholarships

 Table 4: Performance of the students during the academic year 2015 to 2022

Table 5: Total number of students available during various academic years

Year	1 st	2^{nd}	3 rd	4 th	Total no. of students	Total scholarship
2015-16	8	-	-	-	8	8
2016-17	10	8	-	-	18	18
2017-18	8	10	8	-	26	26
2018-19	7	8	10	8	35	35
2019-20	11	7	8	10	36	35
2020-21	16	11	7	8	42	25
2021-22	20	16	11	7	54	31
2022-23	-	20	16	11	47	24

Table	Table 6: Milestones achieved by the students of the College since its inception in 2015						
S. No.	Name of Student	Year of passing out	ICAR-JRF	GATE	Major Subject	M. Tech.	
1	Niamcha Lowang	2018	2019-20 ST - 1 st UPS - 2 nd Overall -	-	Food Technology	Anand Agricultural University, Anand, Gujarat	

			144 th			
2	Sweety Ngangom	2018	-	2019	Food Technology	Tezpur University, Assam
3	Monika Konsam	2018	$\begin{array}{c} 2020\text{-}21\\ \text{UPS}-1^{\text{st}}\\ \text{OBC}-33^{\text{rd}}\\ \text{Overall}-91^{\text{st}} \end{array}$	2020	Food Technology	Jadavpur University, West Bengal
4	Bhavesh Datla	2019	-	2020 Overall – 19 th in Engineering Sciences; Overall – 1 st in Food Technology	Food Technology	Indian Institute of Technology, Kharagpur
5	Alok Das	2019	-	2020	Food Technology	Indian Institute of Technology, Varanasi
6	Rebika Salam	2019	$\begin{array}{c} 202021\\ \text{UPS}-2^{\text{nd}} \end{array}$	-	Food Technology	Tezpur University, Assam
7	W. Athoi	2018	-	2020	Food Technology	Tezpur University, Assam

 Table: 7. Number of students passed and secured M. Tech. in 2018-19 to 2021-22

Sl. No.	Year	Numb	er of stud stud	Number of students passed			
		JRF	SRF	GATE	M. Tech.	Other	out
1.	2018	1	-	3	6	-	8
2.	2019	2	-	2	5	-	10
3	2020	-	-	-	4	-	8
4	2021	-	-	-	-	-	7

Extracurricular activities:

As part of the academic activities of the college, the students have participated actively in every extra-curricular activities during various events organized in and outside the University. Some of the remarkable achievements of the students in extra-curricular activities have been listed below.

S1.	Events	State/	Year	Position
No.	(sports/literary/cultural	regional/		
	meets)	national		
		level		
1	Inter-collegiate Youth	Regional	2018	Folk dance (group) – 2 nd
	Festival of Central			On-the-spot painting - 2nd (Ksh.
	Agricultural University at			Amitkumar Singh)
	College of Veterinary			Elocution – 2 nd (RohanSingha)
	Sciences, Selesieh, Mizoram			Mime $(group) - 4^{th}$
2	Inter-collegiate Youth			Cultural procession (group) -2^{nd}
	Festival of CAU at College	Regional	2019	Folk dance $(\text{group}) - 3^{rd}$
	of Agriculture, Iroisemba,			Quiz – 3 rd (L. Bikramjit Singh and
	Imphal			BhaveshDatla)
3	Inter-collegiate Sports Meet	Regional	2019	$100 \text{ m race} - 2^{\text{nd}} (\text{ArrowalSyngkon})$
	of CAU at College of			200 m race – 1 st (ArrowalSyngkon)
	Agriculture, Iroisemba,			Discus throw -3^{rd} (L. Bikramjit)
	Imphal			
4	OUGRI Night of National			Debating competition - 3rd
	Institute of Technology,	Regional	2019	(RohanSingha)
	Manipur			
5	National AgriUnifest at	National	2020	Represented and participated in
	Raipur, Chhatisgarh			elocution, debating competition and
				ex-tempore speech (RohanSingha)

 Table 8: Extra-curricular activities participated by the students of the college





(4)

(5)





(6)

(7)

Fig 4 to 7: Students of the college participating in various cultural activities

Additional information on monitoring mechanism for quality education

- Monthly meetings: The Dean College of Food Technology conducts monthly meetings with the faculties to evaluate the progress in the field of teaching, research and extension.
- · Annual reports: Annual reports are prepared for the college based on teaching, research and extension education activities performed during the year in consideration. The reports are used for measuring the performances of the college during the particular year and serve as guidelines for future action plan

Student evaluation:

Students' advisory meeting is conducted every week by respective advisors and every month students advisory meeting is held along with the Dean of the college. He receives the feedback from the students and gives direction to the faculties. The students are providing the feedback of course teachers who handle the classes during a particular semester in a prescribed proforma. The feedback of the students is analyzed and the inadequacies are properly addressed.

Special focus is paid for all round development of student to show their hidden talents in addition to their academic programme. The College organizes co-curricular and extra-curricular activities for overall development of student's personality and career. Annual College Week, Blood Donation Camp, Agricultural Education Day, Mahatma Gandhi's Anniversary programme, NSS, Physical Education, Sports, Literary activities etc. are also organized to give the opportunity to the students. The students also participate regularly inter collegiate event of University and National level competitive events.

6.5.1.3. CC/Board of Studies

The College of Food Technology, Imphal is a constituent college of Central Agricultural University, Imphal and is governed by decisions of the statutory bodies viz., Board of Studies (BOS) and Academic Council

6.5.1.4. Anti-Ragging Committee

The Anti-Ragging Committee comprising of Dean, Wardens (Boys' Hostel and Girls' Hostel), Student Welfare Officer (SWO) and other faculties is formed every year to inspect and visit Hostels (both Boys' and Girls') at any time after the entry time. Each student is allotted with one advisor to discuss their problems and counseling is being done on weekly basis for all the students by their respective advisors. Regular meetings and group discussion is being conducted related to anti-ragging topics on quarterly basis.

Table 9: Anti-Ragging Committee of the College

Members of Anti-Ragging Committee	Date
Dr. Punyakishore M., Dr. L. Sophia Devi, Er. Saroj Behera, Dr. S. Sunderlal Singh, Dr. Angam Raleng, Dr. Th. Gopeshwor Singh, Mr. H. Dayanidhi Singh	15-01-2021 to 15-02-2021
Dr. Punyakishore M., Dr. L. Sophia Devi, Er. Saroj Behera, Dr. Angam Raleng, Dr. Th. Gopeshwor Singh, Dr. Ashok Kumar	16-02-2021 to 15-02-2022
Dr. Ng. Joykumar Singh, Dr.Punyakishore M., Dr. L. Sophia Devi, Er. Saroj Behera, Dr. Angam Raleng, Dr. Th. Gopeshwor Singh, Dr. Ashok Kumar	16-02-2022 to 15-02-2023

6.5.1.5. Biological Waste Disposal Facility:

Since the college has been shifted to its present temporary campus in the month of January 2020, a biological waste disposal facility of the college is yet to be established. However, for the different kinds of perishable waste generated from the various works undertaken during food processing experiments, a pilot biogas plant is in the pipelines to be developed at the earliest. Apart from that, a fully functional biological waste disposal facility for various chemical, biological and recyclable wastes generated through a variety of research activities, clinical service, maintenance and cleaning operation at the college level is required in the near future. Currently, food wastes generated from both the hostels are disposed in compost pits in the backyard of the hostels. The laboratory chemical wastes are disposed by burying deep into the soil. Waste bins and dust bins are maintained at regular distances in the administrative cum academic building, boys' hostel and girls' hostel.

Regular cleaning and burying activities of the wastes accumulated is monitored by outsourced staff of the college.

6.5.1.6. Institutional Ethics Committee for Experiments on Animals

The college does not undertake experiments on animals. However, if such experiments are undertaken in future, then the college will strictly adhere to CPCSEA guidelines and will constitute an Institutional Animal Ethics Committee (IAEC).

6.5.1.7. Committee for Prevention of Sexual Harassment of Women at Work Place

The women cell for prevention of sexual harassment of women has been formed to address all grievances pertaining to sexual harassment of women (students, teaching and non-teaching staff and labours) at the college. Dr. L. Sophia Devi I/c Women Cell looks after the problems. There is no complaint on sexual harassment in the college during last five years. However, details on sexual harassment of women at work place Act, 2013 and a preamble of the Act and seeking remedy under this Act are clearly explained to the staff and farm workers.

6.5.2 Faculty

As per faculty recommended by ICAR, New Delhi the faculty strength is yet to be filled to its full strength. Special focus is paid for all round development of student to show their hidden talent in addition to their educational programme. The College organizes cocurricular and extra-curricular activities for overall development of student's personality and career. Annual College Week, Fresher's Meet, Blood Donation Camp, important international and national Days, Awareness Programs, NSS, Physical Education, Sports, Literary activities etc. are also organized to give the opportunity to the students. The students also participate regularly in inter collegiate events of the University and represent the college in National level competitive events.

6.5.2.1. Faculty Strength sanctioned, vacant and recommended by ICAR

As per the Fifth Dean Committee, Five Professors, Ten Associate Professors and Thirty One Assistant Professors are needed to teach and guide the students of B. Tech. Food Technology, M. Tech Food Technology and Ph. D. Food Technology. We are offering only B. Tech. (Food Technology) at present. At this College the following Faculty members were involved in teaching and guiding the students of B. Tech. Food Technology during 2015-2020. As per the recommendations by ICAR/UGC/VCI/Other regulatory bodies, the present faculty strength of the college.

Sl. No.	Faculty Associated with Food Technology programme	Faculty in place	Vacant Position	Faculty recommended By ICAR/UGC/VCI/Other regulatory bodies
1.	Professor	3	4 (Advertised)	6
2.	Associate Professor	8	-	10
3.	Assistant Professor	17 regular + 6 (contractual)=23	6 (Advertised)	30
	Total	34	10	46

Table 10: Present status of faculty strength of the College

Table 7(a) List of Faculty (Permanent)

Sl. No.	Name	Department and Institute	Courses Covered
1.	Dr. Ng. Iboyaima Singh	Professor	Fundamentals of food processing
2.	Dr. Ng. Joykumar Singh	Associate Professor	Post Harvest Engineering, Unit operation, ELPs
3.	Dr. Ashok Kumar	Assistant Professor	Heat and mass Transfer, Equipment design, Thermodynamics
4.	Dr. H. Nanita Devi	Junior Plant Breeder	Processing of spice crops
5.	Dr. T. Sunanda Devi	Junior Agronomist	Processing and value addition cereals and pulses.
6.	Dr. Nilima Karam	Entomologist	Crop production and disease management
7.	Dr. L. Sophia Devi	Food Scientist	Processing of horticultural crops
8.	Dr. Kh. Stina Devi	Extension	Entrepreneurship development
9.	Dr. Phurailatpam Sumitra Devi	Plant pathology	Crop production and disease management
10.	Dr. Kh. Gayatri Devi	Horticulture	Processing of Fruits and plantation crops

11.	Dr. Th. Anand Singh	Biochemistry	Instrumental analysis, Biochemical analysis
12.	Dr. P.K. Sarangi	Microbiology	Industrial microbiology

List of Guest Lecturers (2020-21):

SI. No.	Name	Department and Institute	Courses Covered
1.	Dr. Thokchom Subhaschandra Singh	Assistant Professor Dept. of Mechanical Engineering, NIT Manipur	Food Thermodynamics (Theory and practical)
2.	Er. Laishram Birjit Singh	Technical Assistant Dept. of Mechanical Engineering, NIT Manipur	Food Thermodynamics and Heat and Mass Transfer (Practical classes)
3.	Dr. Thiyam Tamphasana Devi	Assistant Professor Dept. of Civil Engineering NIT Manipur	Fluid Mechanics (Practical classes)
4.	Dr. Shuma Adhikari	Assistant Professor Dept. of Electrical Engineering NIT Manipur	Basic Electrical (Practical classes)
5.	Er. Asem Nabadavis	Assistant Professor Dept. of Mechanical Engineering, MTU Manipur	Food Thermodynamics (Theory)
6.	Er. Jimmy Laishram	Assistant Professor Dept. of Computer Engineering, MTU Manipur	Computer Programming (Theory and practical)

As per faculty recommended by ICAR/UGC/VCI/Other regulatory bodies the faculty strength are not sufficient. However, faculties from other constituent colleges including College of Agriculture, Iroisemba, Dhanamanjuri College of Arts, Dhanamanjuri College of Science, Churachandpur College, scientists from AICRP and ICAR are being assigned to complete the curriculum of the undergraduate degree programme of this college. The teaching pedagogy include a judicious blend of different teachings modules, classroombased teaching with an equal weightage on practical training and exposure to inculcate pragmatic skills and perk up student's confidence to meet requirement of various client organization as well as higher education in other national and international academic institutions. At present the College of Food Technology is running with 7 Assistant Professors (contract).

6.5.2.2. Faculty Profile (Department wise)

The names of various faculties (permanent, on contract, from sister organization, guest etc.) their qualification and various courses taught by them is given below. As mentioned, these faculties are assigned the responsibility for the B. Tech. programme only.

Sl. No.	Department	Sanctioned Faculty	Filled post	Vacant post	Faculty recommended by the ICAR
1	Food Process	Professor	1	2	1
	Technology	Associate Professor	2	0	2
		Assistant Professor	3	1	4
2	Food Process	Professor	0	1	1
	Engineering	Associate Professor	2	0	2
		Assistant Professor	7	2	9
3 Food Safety and		Professor	1	1	1
	Quality	Associate Professor	2	0	2
1 issurance		Assistant Professor	5	2	7
4	Food Business	Professor	1	0	1
	Management	Associate Professor	1	0	2
		Assistant Professor	5	0	7
5	Food plant	Professor	0	0	1
	operation	Associate Professor	1	0	2
		Assistant Professor	3	1	4
	То	tal	34	10	46

Table 11: Information regarding faculties, their of	qualification and courses taken for th	e
B. Tech. (Food Technology)		

Area	Since 2015 to 2022			
	Subject	Taught by	Highest qualification	
Food	Fundamentals of	Dr.Angam Raleng (Assistant Professor)	Ph. D.	
Process Technology	Food Processing	Mr. H. Dayanidhi Singh (Assistant Professor)	M. Sc.	
	Processing Technology of	Dr.A.K. Mishra, (Deputy Director Research, CAU, Imphal)	Ph. D.	
	Cereals	Dr. Ng. Joykumar Singh (Associate	Ph. D.	

		Professor)	
	Processing Technology of Legumes and Oilseeds	Dr.Angam Raleng (Assistant Professor) Dr.A.K. Mishra, (Deputy Director Research, CAU, Imphal)	Ph. D. Ph. D.
	Oliseeds	Dr. Th. Renuka Devi (Professor)	Ph. D.
	Processing Technology of Fruits and Vegetables	Dr. L. Sophia Devi, (Junior Scientist) Dr. Ps. Mariam Anal (Assistant Professor)	Ph. D. Ph. D.
	Processing Technology of	Dr.M. Norjit Singh, (Assistant Professor)	Ph. D.
	Liquid Milk	Dr. Angam Raleng (Assistant Professor)	Ph. D.
	Processing Technology of	Dr. M. Norjit Singh, (Assistant Professor)	Ph. D.
	Dairy Products	Dr. Angam Raleng (Assistant Professor)	Ph. D.
	Processing Technology of	Dr.A.K. Mishra, (Deputy Director Research, CAU, Imphal)	Ph. D.
	Beverages	Dr. Ng. Piloo (Associate Professor)	Ph. D.
	Processing of	Dr. L. Sophia Devi, (Junior Scientist)	Ph. D.
	Spices and Plantation Crops	Dr. PS. Mariam Anal (Assistant Professor)	Ph. D.
	Processing of Meat and Poultry	Dr. M. Norjit Singh, (Assistant Professor)	Ph. D.
	Products	Dr. Angam Raleng (Assistant Professor)	Ph. D.
	Processing of Fish and Marine	Dr. Wanglar Chimwar, (Junior Scientist)	Ph. D.
	Products	Dr. Ch. Bashudha Devi (Senior Scientist), ICAR RC, Manipur	Ph. D.
		Dr. Y. Bedajit Singh, Deputy Director of Instruction, CAU, Imphal	Ph.D.
	Bakery, Confectionery	Mr. H. Dayanidhi Singh (Assistant Professor)	M. Sc.
	and Snack Products	Dr.Ng. Piloo (Associate Professor)	Ph. D.
	Food Packaging	Dr. Angam Raleng (Assistant	Ph. D.

	Technology and	Professor)	
	Equipment	Dr. A.K. Mishra (Deputy Director Research, CAU, Imphal)	Ph. D.
	Sensory Evaluation of	Dr. Angam Raleng (Assistant Professor)	Ph. D.
	Food Products	Mr. H. Dayanidhi Singh (Assistant Professor)	Ph. D.
	Fundamental of food Technology	Dr. Angam Raleng (Assistant Professor)	Ph. D.
		Dr. Ng. Joykumar Singh (Associate Professor)	Ph. D.
Food Safety and Quality	General Microbiology	Dr. Punyakishore M. (Assistant Professor)	Ph. D.
Assurance		Dr.L. K. Mishra (Associate Professor)	Ph. D.
	Food Microbiology	Dr. Punyakishore M. (Assistant Professor)	Ph. D.
		Dr.P.K. Sarangi, (Scientist)	Ph. D.
	Industrial	Dr.P.K. Sarangi, (Scientist)	Ph. D.
	Microbiology	Dr. Punyakishore M. (Assistant Professor)	Ph. D.
	Food Chemistry of Macronutrients	Mr. H. Dayanidhi Singh (Assistant Professor)	M. Sc.
		Dr. Angam Raleng (Assistant Professor)	
	Food Chemistry of Micronutrients	Mr. H. Dayanidhi Singh (Assistant Professor)	M. Sc.
		Dr. L.K. Mishra (Associate Professor)	Ph. D.
	Food Biochemistry and	Dr. Punyakishore M. (Assistant Professor)	Ph. D.
	Nutrition	Dr. Th. Anand Singh (Scientist)	Ph. D.
		Dr. Y. Ranjana Devi, Deputy Director of Instruction, CAU, Imphal	Ph. D.
	Biochemistry	Dr. Punyakishore M. (Assistant Professor)	Ph. D.
	Food Biotechnology	Dr. Punyakishore M. (Assistant Professor)	Ph. D.
	Food Additives	Mr. H. Dayanidhi Singh (Assistant	M. Sc.
	and Preservatives	Professor)	Ph. D.
		Dr. L.K. Mishra (Associate Professor)	

	Instrumental	Dr. Th. Anand Singh (Scientist)	Ph. D.
	Techniques in Food Analysis	Mr. H. Dayanidhi Singh (Assistant Professor)	Ph. D.
	Food Plant Sanitation	Dr. Th. Gopeshwor Singh (Assistant Professor)	Ph. D.
		Dr. Angam Raleng (Assistant Professor)	Ph. D.
	Food Quality, Safety Standards and Certification	Mr. H. Dayanidhi Singh (Assistant Professor) Dr. Ng. Piloo (Associate Professor)	M. Sc. Ph. D.
Food Process	Food Thermodynamics	Dr. S. Sunderlal Singh (Assistant Professor)	Ph. D.
Engineering		Dr. Th. Subhaschandra Singh (Assistant Professor, NIIT, Manipur)	Ph. D.
	Fluid Mechanics	Dr. S. Sunderlal Singh (Assistant Professor)	Ph. D.
		Dr. Thiyam Tamphasana Devi, (Assistant Professor, NIIT, Manipur)	Ph. D.
	Post-Harvest Engineering	Dr. Ng. Joykumar Singh (Associate Professor)	Ph. D.
		Dr. A.K. Mishra, (Deputy Director Research, CAU, Imphal)	Ph. D.
	Heat and Mass Transfer in Food	Dr. L. Sophia Devi (Assistant Professor)	Ph. D.
	Processing	Dr. S. Sunderlal Singh (Assistant Professor)	Ph. D.
	Unit Operations of Food	Dr. Ng. Joykumar Singh (Associate Professor)	Ph. D.
	Processing - I	Dr. Angam Raleng (Assistant Professor)	Ph. D.
	Unit Operations of Food	Dr. Ng. Joykumar Singh Associate Professor)	Ph. D.
	Processing - II	Dr. A.K. Mishra, (Deputy Director Research, CAU, Imphal)	Ph. D.
	Food Refrigeration and	Dr. L. Sophia Devi (Assistant Professor)	Ph. D.
	Cold Chain	Dr. S. Sunderlal Singh (Assistant Professor)	Ph. D.
	Food Storage	Dr. Angam Raleng (Assistant	Ph. D.

	Engineering	Professor)	
		Mr. H. Dayanidhi Singh (Assistant Professor)	M.Tech.
	Food Process Equipment	Dr. S. Sunderlal Singh(Assistant Professor)	Ph. D.
	Design	Mr. H. Dayanidhi Singh (Assistant Professor)	M.Tech.
	Instrumentation and Process	Dr. S. Sunderlal Singh (Assistant Professor)	Ph. D.
	Control in Food Industry	Dr. A.K. Mishra, (Deputy Director Research, CAU, Imphal)	Ph. D.
Food Business	Business Management and	Dr. S. Bhogin Singh, (Associate Professor)	Ph. D.
Management	Economics	Dr. Y. Chakravarty (Professor)	Ph. D.
	ICT Applications in Food Industry	Dr. Shuma Adhikari, Assistant Professor, Dept. of Electrical	Ph. D.
		Engineering NIT Manipur Er. Saroj Kumar Behera (Assistant Professor)	M. Tech.
	Marketing	Dr. Angad Prasad, (Professor)	Ph. D.
	Management and International Trade	Dr. L. Nabachandra Singh (Professor)	Ph. D.
	Project Preparation and	Dr. S. Bhogin Singh, (Associate Professor)	Ph. D.
	Management	Dr. Y. Chakrabarty (Professor)	Ph. D.
	Communication	Dr. Dayaram, (Assistant Professor)	Ph. D.
	and Soft Skills Development	Dr. Angad Prasad (Professor)	Ph. D.
	Entrepreneurship Development	Dr. Dayaram, (Assistant Professor) Dr. N. Okendro Singh (Professor)	Ph. D.
Food Plant Operations	Student READY- Experiential	Dr. Ng. Joykumar Singh (Associate Professor)	Ph. D.
	Learning Programme - I	Dr. Feroze M. Sheikh (Associate Professor)	Ph. D.
	Student READY- Experiential	Dr. Ng. Joykumar Singh (Associate Professor)	Ph. D.
	Learning Programme - II	H. Dayanidhi Singh (Assistant Professor)	M.Tech.
	Student READY – Research	Dr. Ng. Joykumar Singh (Associate	Ph. D.

	Project	Professor	
	Tiojeet	Dr. Th. Gopeshwor Singh (Assistant Professor)	Ph. D.
	Student READY - Seminar	Dr. Th. Gopeshwor Singh(Assistant Professor)	Ph. D.
		Dr. L. Sophia Devi (Assistant Professor)	Ph. D.
		Dr. Punyakishore M. (Assistant Professor)	Ph. D.
Basic	Engineering	Dr. L. Sophia (Assistant Professor)	Ph. D.
Engineering	Drawing and Graphics	Er. Asem Nabadavis, Assistant Professor, Dept. of Mechanical Engineering, MTU, Manipur	M.Tech.
	Basic Electrical Engineering	Er. Saroj Kumar Behera (Assistant Professor)	M. Tech.
		Dr. Shuma Adhikari, Assistant Professor, Dept. of Electrical Engineering, NIT Manipur	Ph. D.
	Workshop	Dr. L. Sophia Devi (Assistant	Ph. D.
	Technology	Professor)	
		Dr. Ng. Joykumar Singh (Associate Professor)	Ph. D.
	Computer	Er. Saroj Kumar Behera(Assistant	M. Tech.
	Programming and	Professor)	
	Data Structure	Er. Jimmy Laishram, Assistant Professor, Dept. of Computer Engineering, MTU Manipur	M. Tech.
	Basic Electronics Engineering	Er. Saroj Kumar Behera(Assistant Professor)	M. Tech.
		Er. Jimmy Laishram, Assistant Professor, Dept. of Computer Engineering,MTU Manipur	M. Tech.
Basic Sciences and	English Language	Dr. K. Maheshwari Devi, (Assistant Professor)	Ph. D.
Humanities	Crop Production	Dr.R.K. Dilip Singh, (Professor)	Ph. D.
	Technology	Dr.A.K. Bijaya Devi, (Professor)	Ph. D.
		Dr. Edwin Luikham, (Professor)	Ph. D.
		Dr. Jamkhogin Lhungdim, (Assistant Professor)	Ph. D.
	Engineering Mathematics -I	Er. Saroj Kumar Behera(Assistant Professor)	M. Tech.
		Dr. Gangmei Sobha (Professor)	Ph. D.

EngineeringEr. Saroj Kumar Behera (AssistantMathematics -IIProfessor)		M. Tech.
	Dr. Gangmei Sobha (Professor)	Ph. D.
Environmental Sciences and Disaster Management	Dr. Th. Gopeshwor Singh (Assistant Professor)	Ph. D.
Statistical Methods and	Shri N. Gopimohan Singh, (Associate Professor)	M. Sc.
Numerical Analysis	Dr. N. Okendro Singh, (Professor)	Ph. D.

6.5.2.3. Credentials of the Faculty:

All faculty members of the college are qualified and recognized persons of their fields. The college has adequate proportion of experienced and young faculty members. Many faculty members in the college have received awards for their excellence in teaching and research activities. The details of qualification, experience and professional experience and demonstrated competencies are listed in Annexure 6.5.2.3.

6.5.2.4. Technical and Supporting Staff

The technical staff and other supporting staff of College of Food Technology are attached with the Dean's office for administrative, convenience and being allotted to other departments as per requirements and skills imparted. Other than these staffs some Skilled and Unskilled labours are hired on contractual basis. The administrative and accounts staff are centralized in the college and are operating under the direct control of the Dean as part of Dean's office.

Post	Filled post	Vacant	Faculty recommended by the ICAR
Technical Assistant	8	2	10
Office Assistant	2	3	5
Lab Technician	16	12	28
Lab Attendant	9	5	14
Total	35	22	57

Table: 12. Information of Technical and Supporting Staff of College of Food Technology

6.5.3. Learning Resources

Learning resources like books, photos, life specimen and audio-visual aids like power-point presentation, videos are used to assist the students to meet the expectation for learning defined by IC3. AR recommended curriculum.

Faculties are provided with computers to access the online open coursework and online portal to use it for the curriculum delivery. Faculty members access various resources for use in teaching, research and extension activities. Students are also encouraged to access various software applications in food technology.

6.5.3.1. College Library (Digital)

The Library provides circulation and reference services. The Library also has access to online e-journals through ICAR web portal. Photocopying and printing facility is also available in the Library. Details of library are as given below:

Sl.	Particulars	Details
No.		
1	Area	48.5 sq. m.
2	Present staff	Library assistant – 01
3	Availability of Wi-Fi	Wi-fi facilities area available in the library with a band
		width speed of 50 Mbps from BSNL network.
4	Books	For College of Food Technology: 1568 book titles
5	Other reading materials	National and local newspaper such as The Sangai Express,
		The Telegraph, The Times of India, etc.
		Magazines like India Today, Down To Earth,
		PratiyogitaDarpan, Civil Services Chronicle, Kurukshetra,
		Yojana, Agriculture Today, etc.
6	Research journals	Students and faculty can access journals through online
		portal of ICAR
7	Internet with	Two
	computers	
8	Sitting capacity	10
9	Stocking arrangement	The College library adopted Open Access System for

Table13: Details of the college library

		accessing library collection and classified according to
		Dewey Decimal Classification (DDC) scheme (22 Ed.) and
		arranged in APUPA pattern, stacked in different parts like,
		Subject books Literature books, General books, Reference
		books, Competitive Exam books, Thesis, Back volumes,
		Seminar scripts, etc.
10	Operating hours	9:30 am to 4:30 pm
11	Books available in the	Food Science, Food Engineering, Processing of
	library	Vegetables, Processing of Fruits, Processing of Dairy
		products, Microbiology, Biotechnology, Food Chemistry,
		Nutrition, Environmental Science and Disaster
		Management, Civil Engineering, Mechanical Engineering,
		Electrical Engineering, Biochemistry, Chemistry of
		Micronutrients, Food Process Engineering, Business
		Management, Entrepreneurship Development, Project



Fig 8: Library facilities at the college

6.5.3.2. Classrooms, Laboratories, Dean's room, Instructional Farm, Practical, Training halls, Workshops, Ponds, etc.

The regular teachings are conducted in the pre-fabricated college classrooms and laboratory. The College of Food Technology has a functional laboratory to conduct basic practical experiments. It is presently equipped with necessary equipment and facilities to accomplish the academic activities. All basic chemicals and instruments are available for doing practical and research work in all the laboratory.
Details of Classrooms and Laboratories:



Fig 9: Classroom of the college

b) **Number of class rooms:** (UG = 4)

All class rooms are provided with LCD projectors and audio-visual aids for better delivery of lectures. The faculty use power point presentations to make the concepts/techniques clearly understandable to the students. The important lectures are taught with videos. A table, podium, whiteboards/screen, black board etc. are available in each class room for the use of teachers.

c) Functional Laboratory: 1 no.

At present, there is a common laboratory for the practical experiments of the students. Apart from that, major experiments are conducted in other nearby institutes including NIT, Manipur, Manipur Technical University, Imphal, S.K. Womens' College, Nambol and CAEPHT, CAU, Sikkim.



Fig 10: Functional Laboratory and Equipments of the college



Figure 11: Bakery Oven and Tray Driers



Figure 12: Vaccum packaging and Protein Analysis Equipment



Figure 13: Fiber analysis equipment and Distillation unit



Figure 14: Texture analyzer and Form filled packaging unit



Fig. 15: Mini-Commercial oil expelling machine



Fig. 16: Shrink Packaging and Vacuum packaging Machine



Fig. 17: Fruit Extraction machine and Tray/Cup packaging Machine



Fig. 18: Rotary Evaporimeter and Autoclave Machine



Fig. 19: Laminar Flow and Incubator Machine



Fig. 20: Tray Dryer and Crown Capping Machine



Fig. 21: Pulveriser Machine and Weighing and Microwave Oven



Fig. 22: Soxlet Plus Apparatus and Weighing and Microwave Oven



Fig. 23: Processing Lab. and Chemicals



Fig. 24: Honey Processing Unit (Pilot Plant)





Fig. 25: Pineapple Powder Processing (Pilot Plant)



Fig. 26: Pineapple Primary Processing Mobile Van



Fig. 27: Pineapple Juice Extraction Mobile Van with washing Unit



Fig. 28: Seed Processing Lab. and Seed Storage Warehouse



Fig. 29: Indigenous Processing Wares/gears and Tillage equipment museum



Fig. 30: Indigenous Processing Wares/gares and Tillage equipments museum



Fig. 31: Computer Room

a) Dean's room



Fig. 32: Photograph of Dean's room

Farm Facility

The College has a nutritional farm for students' research and demonstration purposes. It is located on the western boundary of the college. The farm has been in operation since the month of January, 2021.

Particular	Farm	Irrigated/Non			Crops grown		
	Area (ha)	Irrigated	(ha)				
Nutritional Garden of	3.0 acres	Irrigated		with	Banana,	papaya,	potato,
the College of Food		sprinkler	and	drip	cabbage,	caul	iflower,
Technology, Imphal		irrigation s	system	.S	tomato,	coriander,	methi,

	pumpkin, corn, beans, peas,		
	Capsicum,	King	Chilli,
	mustard, etc.		

Table 15: Facilities available at the	Nutri-Garden of the College
---------------------------------------	-----------------------------

Sl.	Facility available	Remarks				
No.						
1	4.5 hp water pumping set (2	For supply and water pumping to the crops				
	nos.)					
2	Drip irrigation system	For irrigation of crops grown				
3	Sprinkler irrigation system	For irrigation of crops grown				
4	Water reservoirs (under raised	Water storage and supply				
	and sunken system of farming)					



Fig 33: Nutri-Garden of the College

The college also maintains a pond with an approximate area of (400 sq. m.) just behind the administrative building. Presently, the bank of the pond is planted with pineapple. Both the farm and pond are regularly monitored by one farm manager and MTS staff of the college under the direct supervision of Dean.



Papaya and Banana tree plantation at the College Farm



Fig. 35: Practical / Training Hall of the College

6.5.3.3. Student READY/ In-Plant Training / Internship/Experiential Learning Programmes: Yes

The practical of courses for B. Tech (Food Technology) is carried out in the laboratories equipped with desired instrumentation and facilities. Since the number of students admitted is small in number, practical classes are conducted in a single batch generally as per academic schedule. Students are allowed to perform practical after proper demonstration and skill presentation with precautionary measures. The available facilities for practical and hands-on training are equipped with adequate number of instruments allowing each individual student to perform practical.

The students of B. Tech. (Food Technology) undergo Two five weeks Experiential Learning Programme during VII Semester. The requisite facilities for conduction of experiential learning programme are provided to students to practically fulfill programme requirements and achieve desired skills. During VIII Semester, students of the college compulsorily undergo a 12 weeks In-plant Industrial Training Programme in reputed industries and research institutes across the country.

Students have undergone the hands on training for the skill development during the training programme to make them fit for demonstrating the responsibilities effectively in the professional career. During the training students developed the skill in the field of food processing and value addition, post-harvest management, etc.

Sl. No.	Title of EL	Year of Sanction	EL Location	Discipline
7.	Vegetable Processing	2017-18	College of Food Technology	B.Tech. (Food Tech)
8.	Fruit Processing	2017-18	Meira Foods	B.Tech. (Food Tech)
9.	Chak-hao (Black rice) Processing	2018-19	College of Food Technology	B.Tech. (Food Tech)
10.	Spice processing	2018-19	Korouhanba Spices	B.Tech. (Food Tech)
11.	Indigenous fruits	2019-20	College of Food Technology	B.Tech. (Food Tech)
12.	Bakery products	2019-20	Likla foods	B.Tech. (Food Tech)

Table 16: Titles of Experiential Learning Modules for B. Tech (Food Technology)implemented during 2015-16 to 2020-21

 Table 17: Places of Training for Skill Development Summer Training of 12 weeks

 duration (during VIII semester)

Year	List of Training Institutes B. Tech. (Food Technology)
2017-18	Central Food Technological Research Institute, Mysore
2018-19	Nilon's, Guwahati, Patson Foods, Guwahati and Amul, Ahmedabad
2019-20	Central Food Technological Research Institute, Mysore

Table 18: Major skills imparted through Experiential Learning Module for B. Tech	ı.
(Food Technology) during 2017-2020	

Sl.	Year	No. of	Major skills imparted
No.		students	
		trained	
1	2017-18	08	a. Formulation and manufacture of value added products
			b. Operation and maintenance of processing equipment's

			c. Development of managerial skills under protected
			environment
			d. Skill to develop detailed project proposal to start
			entrepreneurship
			e. Registration and licensing enterprise to run business
2	2018-19	10	a. Formulation and manufacture of value added products
			b. Operation and maintenance of processing equipment's
			c. Development of managerial skills under protected
			environment
			d. Skill to develop detailed project proposal to start
			entrepreneurship
			e. Registration and licensing enterprise to run business
3	2019-20	10	a. Formulation and manufacture of value added products
			b. Operation and maintenance of processing equipments
			c. Development of managerial skills under protected
			environment
			d. Skill to develop detailed project proposal to start
			entrepreneurship
			e. Registration and licensing enterprise to run business



Fig 36: Industrial visit of the students during In-plant Training



Fig 37: Industrial exposure during In-plant Training of the students

6.5.3.4. Curricula Delivery through IT (Smart class rooms/interactive board, etc.)

The College has yet to install a fully functional, well-equipped smart classroom with other associated IT components to deliver curricula. This is in addition to the presently available LCD projector for content presentation in the form of MS Powerpoint, Excel, etc. as well as sound system for interactive classes.

6.5.4. Student Development:

6.5.4.1. Student Intake and Attrition:

The College of Food Technology presently offers Under Graduate Degree Programme in Food Technology i.e., B. Tech. (Food Technology) which is of 4 years duration. The admission to the college is given preference to students of NEH region. The quota for various states of NEH and ICAR are fixed for each academic year. State governments and ICAR take competitive examination and also nominate selected candidates for admission in CAU. If the desirous student fulfills the eligibility criteria, then they can be admitted to the college.

Name of the Degree Programme	Actual students admitted in last five years				Attrition (%)					
B. Tech. (Food Technology)	2015-16	2016-17	2017-18	2018-19	2019-20	2015-16	2016-17	2017-18	2018-19	2019-20
	10	08	10	07	16	0	0	0	0	0

Table: 19. Student intake and attrition in the programme for the last five years

6.5.4.2. Average number of students in Theory and Practical Classes

The number of intake students is manageable due to limited number of seats. Presently, the classrooms and laboratory are sufficient to meet the prescribed course curricula requirement of the degree programme.

Sl.	Name of theTotal intake		Batch of student in	Batch of student in	
No.	programme	per year	Theory class	Practical class	
1.	B. Tech. (Food	12	1	1	
	Technology)				

Table: 20. Number of students in theory and practical classes

6.5.4.3. Admission Process:

Admission requirements

Candidates seeking admission to various UG degree programmes of the University must have secured not less than 50% marks in aggregate in the relevant subjects as shown below at Higher Secondary/10 + 2/Intermediate examination for General/OBC/UPS category and 40% marks in aggregates for SC/ST including physically challenged/in-service candidates.

The relevant subjects for various UG programmes of B.Tech.(Food Technology): PCM/PCMB

B = Biology C= Chemistry M = Mathematics P = Physics

Candidates should have passed 10 + 2 examination with English as one of the subject of study. The candidates must have attained 16 years of age on 31^{st} August of the admission year. The selection/nomination of candidates should be made through Common Entrance Test conducted by the concerned State.

Students seeking admission to any of the above degree programmes shall be permanent resident or domicile of any one of the seven North East States of India, *viz.*, Arunachal Pradesh, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim and Tripura.The number of students to be admitted from each of the seven North East States mentioned to different degree programmes shall be as notified by the University from time to time.

Selection of candidates for admission

The candidate to be sponsored for admission to different degree programmes shall be from the merit list based on the Common Entrance Test conducted by the concerned states.

Students seeking admission to the above degree course shall be a permanent resident or domicile of any one of the seven North Eastern States of India. The number of students to be admitted from each of the seven states mentioned to the degree programme shall be as notified by the University from time to time.

The candidate to be sponsored for admission to the degree programme shall be from

the merit list based on the Common Entrance Test conducted by the concerned states. Fifteen percent of the approved number of seats in all U.G. programmes except B.V.Sc. & A.H. shall be filled up by the candidates selected on the basis of All India Entrance Test (AIET) conducted by the ICAR or as amended from time to time by ICAR. The ICAR/VCI nominees shall be governed by the eligibility as prescribed by the ICAR/VCI.

Date of admission

The date of admission to a Bachelor's degree programme shall be as per the announcement made in the Prospectus/Academic Calendar/Semester Calendar and notified by the Registrar.

Documents required at the time of admission

Each student seeking admission in the University shall submit an application in the prescribed form with the following certificates and documents in original before the Admission Committee constituted for the purpose.

- (i) Pass Certificate for 10+2 Examination
- (ii) Marks sheet of 10+2 Examination
- (iii) Certificate of High School pass Examination in support of date of birth
- (iv) Migration/Transfer certificate from the Board/Council/University where the candidate studied last
- (v) College/School leaving certificate from the authority of the college/school where the candidate studied last
- (vi) Conduct certificate from the Principal of the College/School where the candidate studied last
- (vii) Permanent residency/domicile certificate of concerned state
- (viii) Certificate from competent authority, incase admission is sought under reserved category
 - (ix) Medical certificate from a Medical Officer not below the rank of Asst.Surgeon in support of physical fitness of the candidate
 - (x) Any other documents (as per prospectus/notification) that may be required at the time of admission

Registration

The first day of the commencement of the semester shall be the date of registration by the students.

Registration of newly admitted students

- i) On admission, a student shall be provided four copies of Registration Cards having different colours, one for the student, one for the advisor, one for the Dean and one for the Registrar, which he shall fill up and register for the prescribed courses for the first semester. The Registration Cards shall be signed by the student, his advisor, the Assistant Registrar (Acad.) and countersigned by the Dean of the College.
- ii) On admission and registration, the student shall be provided with an Identity Card with his photograph. The Identity Card shall be returned to the College, when the student leaves the college after completion/discontinuation of the course.
- iii) Each newly admitted student shall be given an Admission Number by the Dean of the concerned college and this Admission Number shall continue till allotment of Registration Number by the Registrar.

Note: An orientation programme shall be organized by the Dean of the college for the benefit of the newly admitted students immediately after the commencement of the semester.

Registration of continuing students

On successful completion of a semester, the continuing students shall register for subsequent semester on the date specified in the Academic/Semester Calendar or specifically notified. The following procedures shall be adopted while registering for the second and subsequentsemesters of the degree programme:

- (i) Students shall register the requisite course in person. In absentia registration will not be permitted under any circumstances.
- (ii) Submission of no due certificates from all the departments and units of the college
- (iii) Payment of prescribed fees
- (iv) Submission of the prescribed Registration Cards duly filled in and signed by all concerned.

6.5.4.4. Conduct of Practical and Hands-on-Training: Yes

Theory and Practical batches for the Degree Programme

There are manageable number of students (Maximum 16) who are kept in one batch during Theory & Practical classes to ensure better delivery of information, encourage students' participation and active monitoring.

The undergraduate courses involve conducting practical experiments as per credits allotted to the specified courses and hands on training and field/lab practical are for courses.

Year	B. Tech. (Food Technology)				
	Batch of students in theory class	Batch of students in practical class			
2015-16	8	8			
2016-17	9	9			
2017-18	10	10			
2018-19	7	7			
2019-20	11	11			
2020-21	16	16			
2021-22	20	20			

 Table 21: Number of students in theory and practical classes of the college

Short duration training/visit

During the course of study students also visited the following industries for short duration training. These industries include Thangjam Agro (Likla Foods), Imphal, Meira Foods, Imphal, Korouhanba Spices, Imphal, Modern Foods, Imphal, etc.

In order to conduct the practical classes of the students of the College, the students along with the concerned faculty undergo regular visit to other established colleges and institutes for conducting practical classes, namely NIT Manipur, CAEPHT Sikkim and S. K. Womens' College Nambol, Manipur with due approval of the University authority.

Study Tour

Under student ready program in VII Semester students were deputed for Study Tour (two - three weeks). Earlier all the students during course of their study used to undertake study tour twice (two to three weeks duration each time), one to NEH region and one at places outside North-east (All India Tour). The tour to NEH region was stopped after implementation of 5th Dean's committee. Now students are going only on All India Study Tour. However, due to covid-19 the tour couldn't be undertaken during 2020-21. The details of various tours undertaken by the students are given below.

Year	Places Visited
2016-17	NEHU, Shillong
	• ICAR Research Complex for NE Region, Umiam, Barapani
	• CPGS, Barapani (CAU)
	• IIT, Guwahati
	• Tezpur University, Assam
	NERIST, Arunachal Pradesh
2017-18	NEHU, Shillong
	• Tezpur University, Assam
	• Yak Centre, Birang, Arunachal Pradesh
	• KVK, Tawang, Arunachal Pradesh
	Kiwi Winery, Bomdilla, Arunachal Pradesh
	ICAR Research Complex, Medziphema, Nagaland
	All India Study Tour
2017-18	Parle Industries, Bhuj, Gujarat
	Amul, Anand, Gujarat
	Anand Agricultural University, Anand, Gujarat
	ICAR-Central Institute of Fisheries Technology, Mumbai
	KVK and Agricultural Fair, Goa
2018-19	Sri Jagannath Flour Mill, Orissa
	University of Agricultural Sciences, Bangalore
	Pelagic Foods, Bangalore
	• National Institute of Agricultural Extension Management
	(MANAGE), Hydearabad
2019-20	• CSIR-Central Food Technology Research Institute (CFTRI),
	Mysuru
	• Bakery Heaven, Mysuru
	University of Agricultural Science, Bangalore
	• ICAR-Central Institute of Fisheries Technology, Cochin, Andhra
	Pradesh

Table 22: Details of study tour of the students during 2016-2022

Conduct of the hands on training

b) Hand on training within the college

Under student ready program in VII semester students of B. Tech (Food Technology) are being provided hands on training under Skill Development Experiential Learning Programme I and II (Skill Development/In-plant training) in the following pilot plants.

Year	Name of the students	Title of Experiential Learning
2018	Sweety Ngangom, Bharat	Chak-hao (Black scented rice) processing
	Singh Irom, Konsam Monika,	leading to development of different products
	NiamchaLowang, W. Athoi,	including Chak-hao noodle, Chak-hao
	Arvind Kumar Yadav, L.	cookies, Chak-haoGulabJamun, Chak-hao
	Bhaktaraj, Ph. Manojkumar	based instant baby food, squash chips, fish
	Singh	processing, Pineapple powder production,
		bakery products including cup cakes,
		cookies, water chestnut soup mixture
2019	S. Romita, Bhavesh Datla,	Processing of ginger to produce ginger
	Rebika Salam, U. Priyambada,	candy, dried ginger, amla candy, guava rolls,
	Alok Das, Evenstar Kharbani,	pomelo juice, lemon RTS, U-morok (King
	Dani Nado, Banteilang	Chilli) pickle, bakery products including cup
	Kharbani, Rohan Singha,	cakes, cookies
	Lalhruaichhungi	
2020	Suchitra Keisham M. Harrana	Delegar products including as skips, askes
2020	Suchitra Keisham, M. Hareena	Bakery products including cookies, cakes,
	Devi, Nillachandra Y., Y.	buns; processing of ginger to produce ginger
	Nikhil, L. Bikramjit Singh, L.	candy and dried ginger pickle, amla+ginger
	Paikhomba Singh, Sober	pickle, chak-haokabok (puffed rice), heimang
	Soibam, Ksh. Amitkumar,	(Rhuschinensis) balls, dehydrated ready to
	Arrowal Synkon, Tyngshainmi	cook vegetable mix, indigenous fruits and
	Kharsoh	vegetable processing

Table 23: Details of the Experiential Learning programme of I	B. Tech.	(Food Tech	nology)
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Fig 38: ELP conducted by the students of the College



Fig 39: ELP conducted by the students of the college



Figure 40: ELP conducted by the students of the college

a) Hands on training outside the college

The students of Food Technology discipline undergo Two five weeks Skill Development Trainings under Hands-on-training after IV and VI semester. The industrial attachment training for 10 weeks and Experiential Learning on campus programme of 12 weeks is carried out in VII semester. The requisite facilities for conduction of experiential learning programme are provided to students to practically fulfill programme requirements and achieve desired skills. Within VIII semester students perform 12 Weeks Project planning and report writing as per ICAR guidelines. The facilities for project are provided to the students as per requirement.

Students have undergone the hands on training for the skill development during the training programme to make them fit for demonstrating the responsibilities effectively in the professional career. During the training students developed the skill in the field of testing, food processing & value addition etc.

All the students of B.Tech. (Food Technology) are given project work for one semester. During this project work they are allotted a guide/supervisor and a topic for research work. After completion of the research work they analyze the data and submit the report. They make a presentation also on the work carried out by them. The titles of the thesis/report submitted by student are given below.

Sl.	Year	Title of report	Name of the students
No.			
1	2018	Development and formulation of Chak-hao	Ngangom Sweety Chanu
		(Black rice) based Gulab Jamun	and Arvind Kumar Yadav
2	2018	Development and formulation of Chak-hao	Bharat Singh Irom and
		(Black rice) based noodle	Monika Konsam
3	2018	Development and sensory evaluation of	Manojkumar Pheiroijam
		deep fried chayote chips	and Wahengbam Athoi
4	2018	Development of supplementary food from	Niamcha Lowang and
		Chak-hao	Laishram Bhaktaraj Singh
5	2019	Development of Black Rice (Chak-hao)	Lalhruaichhungi and
		cake	Sorokhaibam Romita Devi
6	2019	Development and Sensory Evaluation of	Bhavesh Datla and Rebika

 Table 24: Reports submitted by the students under Student-READY Research

		aromatic black rice Idli	Salam
7	2019	Development of Instant Soup Powder using	Alok Das, Dani Nado and
		Heikak (Water caltrop) as Base Material	U. Priyambada

6.5.4.5. Examination and Evaluation Process:

The college strictly adheres to the examination and evaluation system as recommended by the V Deans' Committee. As such, the college follows Uniform Grading system with uniform OGPA requirements for award of degrees at all levels. A uniform conversion formula is followed for declaration of I, II and III divisions, distinction etc.

Examination

Semester system is being followed for UG programmes and evaluation is given weightage as 50% internal and 50% external.

Courses with Theory and Practical

Mid-term Exam (30%) + Assignment (5%) in practical oriented courses + Practical (15%).

Courses with Theory only

Mid-Term Examination (40%) + Assignment (10%).

Courses with Practical only

100% Internal.

Keeping this in view, the schedule and weightage to different examination are as follows:

Table 25:	Weightage	of marks	allotted to	different	credits
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	Course credits									
Particulars	2+1		1+1/2+2		1+2		1+0/2+0		0+1/0+2	
	Т	Р	Т	Р	Т	Р	Т	Р	Т	Р
Mid-term exam	30	-	30	-	30	-	30	-	-	-
Quiz/Continuous	20	30	20	30	20	30	20	-	-	30
evaluation*										
End-term exam	50	70	50	70	50	70	50	-	-	70
Maximum marks	100	100	100	100	100	100	100	100	-	100

* At least 4 number of quizzes are conducted for each course.

Duration of exams

Mid-term theory exam	:	One and half hours
End-term theory exam	:	Two and half hours
End-term practical exam	:	Three hours

Evaluation

- The evaluation of students' performance is achieved by conducting Quizzes of 20 marks (Internal), Mid-Term Examination of 30 marks (Internal) and End-Term Examination (External) of 50 marks. The practical examination consists of 100 marks.
- The questions and answer scripts for quiz and Mid-term examinations are set and evaluated by concerned course teacher.
- The questions and answer scripts for End-term examinations are set and evaluated by external examiners selected duly from a list of panel members by the competent authority.

Degree	Percentage of marks	Conversion into points
	obtained	
	100	10 points
	90 to <100	9 to <10
B. Tech. (Food	80 to <90	8 to <9
Technology)	70 to <80	7 to <8
	60 to <70	6 to <7
	50 to <60	5 to <6
	<50 (fail)	<5

 Table 26: Marks conversion pattern of the examinations

The following ranking pattern is adopted to award the degrees:

OGPA	Division
5.000-5.999	Pass
6.000-6.999	II division
7.000-7.999	I division
8.000 and above	I division with distinction

GPA, CGPA and OGPA are calculated as follows:

GPA	=	Total points scored / Total credits (for 1 semester)
CGPA	=	X Total points scored / Course credits
OGPA	=	X Total points scored (after excluding failure points)/ Course credits

Percentage of Marks = OGPA x 100/10

6.5.4.6. NCC/NSS/RVC Units

NCC/NSS/RVC units in the college does not exist.

6.5.4.7. Language Laboratory

For the college, a language laboratory is in the pipelines of development. Once installed, the audio-visual aids are planned to be used for modern teaching methods to teach the English language. The language lab will offer an exclusive result oriented and efficient English language learning process. The language lab will be developed on the methodology of LSRW (Listening, Speaking, Reading and Writing) skills. It will also help in developing skills in presentation, interviews, group discussions, public speaking and soft communication skills. The contents will include activities, exercises and home assignments with audio-visual modules. There will be a special module on preparation for online competitive exams such as GRE, TOEFL, and IELTS etc.

6.5.4.8. Cultural Centre

The students of the college have been actively participating in multi-varied cultural activities, both within the university and at state and national levels. A cultural committee is formed comprising of faculties, staff and students along with the Student Welfare Officer of the College. Under the committee, different categories of cultural activities are functioned. They include music, dance, literary, theatre and fine arts.

6.5.4.9. Personality Development

Besides the four compulsory courses under the Dean's Committee syllabus which cater to the overall personality development of the students, the College of Food Technology invites renowned achievers from the different places to interact with students for motivational talk and experience sharing. Various lecture series have been organized under NAHEP-IDP project for students. Yoga sessions were also conducted regularly to help the students develop mentally in their academic endeavour at the college.

6.5.5. Physical Facilities

The infrastructure of College of Food Technology has various facilities like academic block, administrative block, conference hall and separate hostels for boys and girls. Basic medical facilities are centrally available at the Medical Unit of the college where basic medical amenities such as antipyretics, antibiotics, anti-diarrheal etc. are available. Also, facilities for I.V. injections and fluids and suture needles and materials are available for minor suturing. First aid kits are issued to all hostels. Medical experts are invited to deliver special lectures on self-hygiene, tobacco and its toxicity, nutritious foods for healthy living, etc.

6.5.5.1. Hostels

The College has one separate hostel each for boys and girls in the campus. Each hostel has an area of 1400 sq. m. with student capacity of 28 students.



Fig 41: Girls' Hostel building of the college



Fig 42: Boys' Hostel building of the college

6.5.5.2. Examination Hall

Separate examination halls are unavailable and hence normal classrooms are rearranged as examination halls during the time of examination.

 Table 27: Facilities available in the classrooms of the college

No. of classrooms	04
Capacity	Varied capacity ranging from 12 to 30 sitting capacity
Facilities available	Chairs, writing desks, electrical fans and lights

6.5.5.3. Sports and Recreation Facilities

Presently, a sports ground is under construction in the college. The students are regularly engaged in different types of physical exercises and sports during the classes and in physical experience class to keep them physically fit and healthy. In addition, the skill development in any one of the games such as badminton, volleyball, football, cricket, table tennis and athletics is contemplated in the physical education programme. Maintenance and cleaning of the ground are regularly done by the students. Matches are conducted for the students during the annual sports day and intercollegiate meets or any other specific days such as the Foundation Day, Republic Day etc. to improve and maintain their skills using ground facilities. Indoor games such as carom, chess, badminton and table tennis are also available.

6.5.5.4. Auditorium

The college does not have auditorium at present. However, the conference hall of the college is being used for various gatherings and activities from time to time. The College has a conference hall with an area of 107.5 sq. m. and sitting capacity of 50 people. The hall is equipped with multimedia LCD projector and sound system for multiple uses in different events.

Table 28: Utilization of Conference Hall of the college

How frequently the conference hall is used and purpose for being use	 Republic day (once a year) College foundation day (once a year) Independence Day (once a year) Inauguration programmes (numerous times a year) Workshops and trainings (numerous times a year) Teachers' Day (once a year) Students' fresher's day (once a year)
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Fig 42: Conference Hall of the College

6.5.5.5. Exhibition Hall/Museum

The college does not have an exhibition hall or museum at present.

6.5.6. Research Facilities

6.5.6.1. Post-graduate Laboratories and Equipment

For the time being, the College of Food Technology does not offer post-graduate

courses. Hence, the laboratory set up in the college is used for under graduate course only.

The laboratory is equipped with some of the basic and advanced equipment needed for the experiments as recommended in the academic regulation of the 5th Deans' Committee. So far, the necessary laboratory furnishings have yet to be installed permanently as the College is under construction.

Equipment available in the laboratoryare enlisted below.

S.No. Name of the equipment

- 1. Vacuum packaging machine
- 2. Form filled packaging
- 3. Incubator
- 4. Powder making machine
- 5. Bakery oven
- 6. Protein analysis unit
- 7. Dietary fiber analysis unit
- 8. Fat analysis unit
- 9. Tray drier (24 trays)
- 10. Tray dryer (12 trays)
- 11. Autoclave (40 Litres)
- 12. Double distillation unit (2.5 L)
- 13. Bench top pH meter
- 14. Analytical balance
- 15. Hot air oven
- 16. Digital Weighing Balance
- 17. Wet grinding machine
- 18. Vegetable cutting machine
- 19. Dough kneading machine
- 20. Microwave oven
- 21. Oscilloscope
- 22. Frequency counter
- 23. Logic gate analyser
- 24. Pulverizer/Gravy machine (2HP)

6.5.6.2. Research Contingency

There is no specific head of Research contingency or no fund is provided as such for research contingency. The research activities of students under B. Tech. are funded from Recurring Contingency of College Fund. Adequate funds are available for meeting the recurring expenses incurred during the education programme.

6.5.7. Outcome/Output

6.5.7.1. Students' Performance in National Examinations

Performance of the students during the year 2015 to 2020 is given below.

 Table 29: Particulars of students who qualified JRF/NET/GATE (2015-2020)

Particulars	2015	2016	2017	2018	2019	2020
NET	-	-	-	-	-	-
GATE	-	-	-	-	01	03
ICAR-JRF	-	-	-	-	01	-
Qualified						
ICAR-JRF	-	-	-	-	01	-
Received						

The following students of B. Tech. (Food Technology) have received fellowship/scholarship for higher education (M. Tech.) in different institutes.

Table 30: Particulars of students who received fellowship during their M. Tech

Name of Degree	B. Tech. (Food Technology)								
Programme	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21			
Actual student admitted	08	10	10	07	11	16			
No. of student passed out	08	10	-	-	-	-			
Student received fellowship for M. Tech.	06	05	-	-	-	-			

6.5.7.2. Student Placement Profile

Since its inception, the college has produced two batches (18 nos.) of B. Tech. (Food Technology) Degree students. Among the 18 passed out students, 11 (eleven) students are pursuing M. Tech. Degree courses in different institutes in India. These institutes include Indian Institute of Technology, Kharagpur, Indian Institute of Technology, Varanasi, Anand

Agricultural University, Anand, Gujarat, Tezpur University, Assam, Jadavpur University, West Bengal and Central Agricultural University, Imphal (CAEPHT, Ranipool). One of the passed out students is preparing for Union Public Service Commission's Civil Services Competitive Examination while the remaining passed out students are in pursuit of appropriate employment opportunities.

6.5.7.3. Awards/Recognitions/Certificates: Annexure 6.5.7.3

6.5.7.4. Employability

The students are acquainted with hands on practical related with processing and value addition of various food products. Interactive sessions with entrepreneurs of the region are being held from time to time regularly. This allows the students to start up an enterprise at their own level. The students are also furnished with knowledge both in theory and practical of food technology. This will enhance the employability opportunity of the passed out students in any organizations they wish to join.

6.5.8. SSR for College along with Degree Programme attached herewith.

SSR of the College must have the SSR of all its Degree Programmes (following section 6.4), then the report of the College shall be considered.

6.5.9. Certificate (Applicable when SSR is submitted for Programmes and College)

I, Ngasepam Iboyaima Singh, the Dean, College of Food Technology, Lamphelpat, Imphal, Manipur hereby certify that the information contained in Sections 6.4 and Sections 6.51 to 6.5.7.4 are furnished as per the record available in the college and degree awarding university.

2nd November, 2022

खाद्य प्रौद्योगिकी महाविद्यालय Food Technology

के कृ वि CAU इम्फाल Imphal Dean

College of Food Technology, CAU, Imhal

6.5.10. All SSR with respect to Programme as mentioned in 6.5.8 are submitted along herewith.

Annexure 6.5.2.3

Faculty Data and Credentials

The Dean, College of Food Technology, Lamphelpat, Imphal, Manipur

Sl. No.	Name and Designation	Year of joining Central Agricultural University	Year of joining College	Highest Qualification and Department	Year of achieving highest qualification (In service/Not)	Related work experience in the field	Experience in other areas
1	Dr. Ngasepam Iboyaima Singh Dean	14 th July, 2022	14 th July, 2022	Ph. D (Food Technology)	2001	Processing and value addition of fruits and vegetables	Human Resource development /Training

Existing Faculties of the College

Sl. No.	Name and Designation	Year of joining Central Agricultural University	Year of joining College	Highest Qualification and Department	Year of achieving highest qualification (In service/ Not)	Related work experience in the field	Experience in other areas
1.	Dr. Edwin Luikham	21-10-1993	21-10-1993	Ph.D	2010	29 years	5years
	Professor			Agronomy			
2	Dr. AK. Bijaya Devi	21-03-1986	21-03-1986	Ph.D.	2014	35 years	5 years
	Professor			Horticulture			

3	Dr. Ng. Joykumar Singh Associate Professor	Sept., 2001	Oct., 2020	Ph. D. Food Engineering and Post Harvest Technology	2009	Food processing and engineering, Design of processing equipments	Green house technology and micro-irrigation
4	Dr. Ng. Piloo Associate Professor	2008	2008	Ph.D. (Post Harvest Technology)	2011	12 years	5 years
5	Dr. Feroze M. Sheikh Associate Professor	2009	2009	Ph. D. Agricultural Economics	2009	13 years	5 years
6	Dr. L.K. Mishra Associate Professor	2009	2009	Ph. D. Biochemistry	2007	13 years	5 years
7	Dr. Y. Bedajit Singh Deputy Director Instruction, CAU, Imphal	2009	2009	Ph. D. (Fisheries)	2007	13 years	3 years
8	Dr. Y. Ranjana Devi Deputy Director Instruction, CAU, Imphal	2008	2008	Ph. D. (Biochemistry)	2007	14 years	3 years
9	Dr. A.K. Mishra Deputy Director of research CAU, Imphal	2005	2005	Ph.D (Agricultural Engineering)	2004	18 years	4 years
10	Dr. Ashok Kumar Assistant Professor	September 2011	October, 2021	Ph. D.	2019	Food Process Engineering	Agricultural Engineering

11	Dr. Punyakishore Maibam Assistant Professor (Contract)	29-06-2016	29-06-2016	Ph. D. Biotechnology	2016	4 years 11 months	6 years 3 months
12	Dr. Thangjam Gopeshwor Singh Assistant Professor (Contract)	14-09-2016	14-09-2016	Ph. D. Environmental Science	2016	4 years 8 months	6 years 2 months
13	Dr. L. Sophia Assistant Professor (Contract)	22-09-2016	22-09-2016	Ph. D. Civil Engineering	2019 (In service)	4 years 8 months	6 years 2 months
14	Mr. Saroj Kumar Behera Assistant Professor (Contract)	22. 09.2016	22. 09.2016	M. Tech. Electrical Engineering	2015	4 years 8 months	6 years 2 months
15	Dr. Angam Raleng Assistant Professor (Contract)	20-09-2017	20-09-2017	Ph. D. Food Process Engineering	2016	3 years 8 months	5 years 2 months
16	Dr. H. Dayanidhi Singh, Assistant Professor (Contract)	16-09-2016	14-09-2016	M. Sc. Food Technology	2004	4 years 8 months	4 years 8 months
17	Dr. S. Sunderlal Singh, Assistant Professor (Contract)	02-08-2018	02-08-2018	Ph. D. Mechanical Engineering	2019 (In service)	2years 10 months	2years 10 months
18	Dr. Th. Anand Singh Scientist	9-04-2012	9-04-2012	Ph.D. Biotechnology	2015	9 years 8 months	4 years 8 months

19	Dr. P.K. Saranagi Scientist	24-04-2012	24-04-2012	Ph.D. Microbiology	2012	9 years 8 months	4 years 8 months
20	Dr. Heisnam Nanita Devi, Jr. Plant Breeder	30-08-2011	30-08-2011	Ph.D. Plant Breeding and Genetics	2012	10 years 8 months	10 years 8 months
21	Dr. Toijam Sunanda Devi, Jr. Agronomist	30-08-2011	30-08-2011	Ph.D. Agronomy	2012	10 years 8 months	10 years 8 months
22	Dr. Nilima Karam Jr. Entomologist	30-08-2011	30-08-2011	Ph.D. Entomology	2012	10 years 8 months	10 years 8 months
23	Dr. L. Sophia Devi Jr. Scientist	30-08-2011	30-08-2011	Ph.D. Food Technology	2008	10 years 8 months	10 years 8 months
24	Dr. Sumitra Phurailatpam Assistant Professor	23-12-2019	23-12-2019	Ph.D. Plant Pathology	2015	3 years 10 days	4 years 10 months
25	Dr. Kh. Stina Devi Assistant Professor	21-12-2019	21-12-2019	Ph.D. Extension Education	2016	3 years 10 days	5years 8 months
26	Dr. Kh. Gayatri Devi Assistant Professor	23-12-2019	23-12-2019	Ph.D. Floriculture, medicinal and aromatic plants	2017	3 years 10 days	4 years 8 months
27	Dr. M. Norjit Singh Assistant Professor	2016	2016	Ph. D. (Veterinary Parasitology)	2016	5 year 11 months	3 year
28	Dr. K. Maheshwari Devi, Assistant Professor	2020	2020	Ph. D. (English)	2018	1year 8 months	-
29	Dr. J. Lhungdim Assistant Professor	2005	2005	Ph. D. (Agronomy)	2004	12 year	-
30	Dr. P.T. Sharma	2007	2007	Ph. D.	2021	14 year	-
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	Assistant Professor			(Agril. Engg.)			
31	Dr. Daya Ram	2003	2003	Ph. D.	2000	21 year	-
	Assistant Professor			(Agril. Extension Education)			
32	Dr. Ps. Mariam Anal	2016	2016	Ph.D.	2014	5 year	-
	Assistant Professor			(Horticulture)			
33	Dr. M. Chanchan	2016	2016	Ph.D.	2014	5 year	-
	Assistant Professor			(Horticulture)			

Annexure 6.5.2.4

Teaching

Sl. No.	Name and Designation	Institution	Details (UG/PG/Ph. D. Courses)	No. of students guided (UG)	Duration	Total experience
1	Dr. Ng. Joykumar Singh Associate Professor in Food processing and engineering		Teaching courses for both College of Food Technology, Imphal and College of Agriculture, Imphal Odd Semester:			
			1) Unit Operations in Food Processing – I (FPE- 2102)			
			 Student READY Experiential Learning Programme – I & II (FT-414) 			
			3) Student READY Research Project (FT-415)			
2	2 Dr. Ashok Kumar Assistant Professor in		Teaching courses in College of Food Technology, Imphal Odd Semester:	Since October 2021	11 years	
			1) Food Process Equipment Design (FT-315)			
			 2) Heat and Mass Transfer in Food Processing (FPE-2101) 			
			 Bakery, Confectionary and Snack Products (FT- 317) 			

-						
			Even Semester:			
			1) Food Thermodynamics (FPE-1201)			
			2) Food Refrigeration and Cold Chain (FT-226)			
			3) Processing Technology of Dairy Products (FT- 221)			
3	Dr. Punyakishore Maibam	College of	Teaching courses for both College of Food	UG student	29 th June,	6 years 3
	Assistant Professor in Biotechnology	Food Technology	Technology, Imphal and College of Agriculture, Imphal	project (06)	2016	months
	biotecimorogy	(CAU, Imphal)	Details of courses taught:			
		mpnar)	UG			
			Odd semester:			
			i. General Microbiology (FT-112)			
			ii. Fundamentals of Biotechnology (GPB-112)			
			iii. Micropropagation techniques GPB (Elective)-359			
			Even Semester:			
			i. Food Biotechnology (FT-225)			
			ii. NSS (FT-129)			
			iii. Biotechnology and Crop improvement (GPB- 509)			
4	Dr. Thangjam Gopeshwor Singh Assistant Professor	College of Food Technology	Teaching courses for both College of Food Technology, Imphal and College of Agriculture, Imphal	UG student project (06)	14 th September, 2016	6 years 2 months
	(Contract) in Environmental	ental (CAU, Imphal)	Details of courses taught:			
	Science and Disaster		Odd Semester:			
	wianagement		UG			

			-			
			Environmental Science and Disaster Management (FT-118)			
			Environmental Science and Disaster Management (BPME (ES) 233)			
			PG/Ph. D.			
			Disaster Management (PGS – 506)			
			Even Semester:			
			UG: Food Plant Sanitation (FT – 322)			
5	Dr. L. Sophia	College of	Details of courses being taught:	UG student	22 nd	6 years 2
	Assistant Professor	Food	od project guided	September, 2016	months	
	(Contract) in Civil Engineering	(CAU, Imphal)	Odd Semester:	(07)	2010	
			i. Engineering Drawing and Graphics (FT-114)			
			ii. Workshop Technology (FT-116)			
			iii. ICT Application Food Industries			
			Even Semester:			
			i. Fluid Mechanics (FT-125)			
			ii. Computer Programming (FT-124)			
6	Mr. Saroj Behera	College of	Even semester:	UG student	22.09.2021	6 years 2
	Assistant Professor	Food	1. Computer programming and Data Structure	project (06)		months
	(Contract) in	(CAU,	2. Basic Electronics Engineering			
	Electrical Engineering	Imphal)	3. Engineering Mathematics -II			
			4. Instrumentation and Process Control in Food Industries			
1		1	1	1	1	1

r						,
			Odd semester:			
			1. Basic Electrical Engineering			
			2. ICT Application Food Industries			
			3. Engineering Mathematics –I			
			4. Mathematic (def) (for College of Agriculture)			
7	Dr.Angam Raleng	College of	Teaching courses for both College of Food	UG student	20 th	5 years 2
	Assistant Professor (Contract)	Food Technology	Technology, Imphal and College of Community Science, Tura, Meghalaya	project (06)	September, 2017	months
	Food Process Engineering	(CAU, Imphal)	Details of courses taught:			
	Tood Trocess Engineering Impha		UG			
			Odd Semester:			
			i. Food Storage Engineering (FT316)			
			ii. Fundamentals of Food Processing (FT211)			
			Even Semester:			
			1. Technology of Legumes & Oilseeds Processing (FT-222)			
			2. Food Packaging Technology & Equipment (FT- 323)			
			3. Sensory evaluation of Food Products (FT-325)			
			4. Food Preservation & Storage (FSN-125)			

Annexure 6.5.2.5

Extension

Sl. No.	Name and Designation	Institution	Details of work done	Duration	Remarks
1	Dr. Ng. Joykumar Singh Associate Professor in Food processing and engineering	College of Food Technology, CAU, Imphal	 Hands' on training programme on processing and value addition of fruits and vegetables Popularisation of small processing machines, tools, black rice, etc. Organisation of Technology demonstration Mela during 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, etc. Field Extension work at Satellite village (Sngaithel Village) Organised NE agri fair 2013 as Chairman of Accommodation and Transportation committee at college of CAU level 	2001	
2	Dr. Ashok Kumar Assistant Professor		 Processing and value addition of fruits and vegetables at small rural level entrepreneurship Processing and Value Addition of Farm Produces Organised NE agri fair 2013 as Chairman of Accommodation and Transportation committee at college of community science, Tura 	Since 2011	
3	Dr. Punyakishore Maibam	College of Food Technology (CAU, Imphal)	Participated in all the Regional Agricultural Fair of CAU	Since June, 2016	
4	Dr. Thangjam Gopeshwor Singh, Assistant Professor (Contract) of Environmental	College of Food Technology (CAU, Imphal)	 Member Secretary cum Coordinator of the College Extension Advisory Committee (CEAC) since July, 2021 Participated in all the Regional Agricultural Fair of CAU 	Since September, 2016	

	Science and Disaster Management				
5	Dr. L. Sophia Assistant Professor (Contract)	College of Food Technology (CAU, Imphal)	Development and Fabrication of aerosol box	8 th June 2020	Donated to JNIMS and RIMS
6	Mr. Saroj Behera Assistant Professor (Contract)	College of Food Technology (CAU, Imphal)	Participated in all the Regional Agricultural Fair of CAU	Since September, 2016	
7	Dr. Angam Raleng Assistant Professor (Contract)	College of Food Technology (CAU, Imphal)	 Participated in all the Regional Agricultural Fair of CAU Compile and edited a Scientific Booklet "Processing Technology Packages for important crops of Manipur" under College of Food Technology, CAU, Imphal. Compile and edited a Booklet "Food Atlas of Manipur- The famous 108 dishes" under College of Food Technology, CAU, Imphal, Manipur. Qualified Master Trainer of the PMFME Scheme under Ministry of Food Processing Industries, Government of India. 	Since September, 2017	

Annexure 6.5.2.6

Research

Sl. No.	Name and Designation	Institution	Details of work done	Duration	Remarks
1	Dr. Ng. Joykumar Singh Associate Professor in Food processing and engineering	College of Food Technology (CAU, Imphal)	 Design and development of Processing equipments/Machines such as pineapple harvester, makhana harvester, ginger washer, fruit cutting machine, etc Value addition of fruits and vegetables at small rural level entrepreneurship Design of micro-irrigation system Development of Pineapple powder making pilot plant Makhana popping technology Acting as Dean-Incharge from 17th Oct, 2020 to 13th July, 2022 Academic In charge from September, 2022 	Since 2001	
2	Dr. Ashok Kumar Assistant Professor	College of Food Technology (CAU, Imphal)	Thermal processing of food; food process modeling; microwave food processing; drying technique; concentration of fruit juice; design of food processing system	Since 2011	
3	Dr. Punyakishore Maibam	College of Food Technology (CAU, Imphal)	Molecular Biotechnology,		
4	Dr. Thangjam Gopeshwor Singh, Assistant Professor (Contract) of Environmental Science and Disaster Management	College of Food Technology (CAU, Imphal)	Waste management studies, solar application of biogass		

5	Dr. L. Sophia Assistant Professor (Contract)	College of Food Technology (CAU, Imphal)	Fluid mechanics, Workshop technology,	
6	Mr. Saroj Behera Assistant Professor (Contract)	College of Food Technology (CAU, Imphal)	Electrical appliances, OIT based solar drip irrigation system	
7	Dr. Angam Raleng Assistant Professor (Contract)	College of Food Technology (CAU, Imphal)	Extrusion system, processing and value addition of pineapple blended cookies, snacks, etc	

Annexure 6.5.3.3 ELP Module for B. Tech. (Food Technology) from 2015-2022



2017-18

A. Processing and value addition of fish and fish products

During the academic year 2017-18, eight students (first batch) participated in ELP (skill module). In this module, students have successfully learned and achieved skills to process local indigenous fishes which are popular among the people of Manipur. Various products of processed fish were made during the module. These included fish pickles, dehydrated fish cubes, dried fish, ready to serve fish curry, etc. In addition, they have been imparted skills of operation and maintenance of processing equipment, development of art and science of production and managerial skills under protected environment. Students also learned and acquired skills of analysis of these products as per FSSAI standards.

B. Processing and value addition of Chak-hao (black scented rice)

Chak-hao (black scented rice) is an indigenous rice variety of Manipur. It is highly nutritious rice with high contents of antioxidants, mainly anthocyanin and other valuable minerals. It is also recommended as a therapeutic food. During this ELP module, eight (08) students participated to produce a number of value added products of Chak-hao. These include Chak-hao noodle, Chak-hao cookies, Chak-hao gulabjamun, Chak-haoidli and Chak-hao instant baby food mix. Recognizing the beneficial values of Chak-hao, the products have high promises in the market. In addition, they have been imparted skills of operation and maintenance of processing equipment, development of art and science of production and managerial skills under protected environment. Students also learned and acquired skills of

analysis of these products as per FSSAI standards. They also acquire knowledge to register and get license from FSSAI to start food business.





A. Processing and value addition of indigenous fruits of Manipur

During the academic year 2018-19, ten (10) students participated in the ELP (skill module). As part of the module, students learned processing and value addition of selected indigenous fruits found in Manipur. Some of the products of the module included ready to serve RTS of lemon with the addition of local medicinal herbs, value added pomelo juice, amla candy, guava roll, amla and ginger candy, pineapple RTS, star fruit pickle, etc. In addition, they have been imparted skills of operation and maintenance of processing equipment, development of art and science of production and managerial skills under protected environment. Students also learned and acquired skills of analysis of these products as per FSSAI standards. They also acquire knowledge to register and get license

from FSSAI to start food business.

B. Processing and value addition of horticultural crops

Ten (10) students participated in this ELP (skill module). During the module, students learned processing and value addition of selected horticultural crops including king chili, cassava, ginger, jackfruit, etc. The major products of this module included king chilly pickle with ginger and garlic, cassava flour, ginger candy, dried ginger pickle, jackfruit candy, etc. . In addition, they have been imparted skills of operation and maintenance of processing equipment, development of art and science of production and managerial skills under protected environment. Students also learned and acquired skills of analysis of these products as per FSSAI standards. They also acquire knowledge to register and get license from FSSAI to start food business.

C. Production of bakery products

Ten (10) students were participated in ELP (Skill module). In this module students have successfully learned and achieved skills to develop various bakery products using various preparation methods. They did proximate composition analysis of the products by using different equipments available in the lab. They also performed cost analysis of the product. In addition they have imparted skills of operation and maintenance of processing equipment, development of art and science of production and managerial skills under protected environment, skill to develop detailed project proposal to start entrepreneurship. Student also learned and acquired skills of analysis of these products as per FSSAI standards. They also acquired knowledge to register and get license from FSSAI to start food business.



2019-20

A. Processing and value addition of Chak-hao

Ten (10) students participated in this ELP (skill module). During the module, students successfully learned and achieved skills to develop Chak-hao based value added products. The products include Chak-hao super kabok (puffed rice) with the addition of flax and chia seeds, Chak-hao noodles and Chak-hao cakes. Chak-hao super kabok is a very promising value added product combining all the goodness of Chak-hao with those of flax and chia seeds. Students successfully formulated and standardized the product so that the beneficial components of the product can be retained with longer shelf life. In addition they have imparted skills of operation and maintenance of processing equipments, development of art and science of production and managerial skills under protected environment, skill to develop detailed project proposal to start entrepreneurship. Student also learned and acquired skills of analysis of these products as per FSSAI standards. They also acquired knowledge to register and get license from FSSAI to startfood business.

B. Processing and value addition of indigenous fruits

Ten (10) students participated in this ELP (skill module). During the module, students successfully learned and achieved skills to process and produce value added products of indigenous fruits. Indigenous fruits processed during this module include heimang (*Rhus chinensis*), a fruit having high medicinal properties. Heimang balls were formulated and standardized retaining its aroma and quality. The product was displayed and sold in the recently concluded CAU Regional Agricultural Fair, 2020-21 as one of the highly demanded items of the stall of the college. Apart from that, some other indigenous fruits processed and value added included chorphon, boroi and thambou (lotus root). In addition they have imparted skills of operation and maintenance of processing equipments, development of art and science of production and managerial skills underprotected environment, skill to develop detailed project proposal to start entrepreneurship. Student also learned and acquired skills of analysis of these products as per FSSAI standards. They also acquired knowledge to register and get license from FSSAI to startfood business.

2020-21

A. Processing and value addition of indigenous fruits of Manipur

During the academic year 2020-21, Seven (07) students participated in the ELP (skill module). As part of the module, students learned processing and value addition of selected indigenous fruits found in Manipur. Some of the products of the module included ready to serve RTS of lemon with the addition of local medicinal herbs, value added pomelo juice, amla candy, guava roll, amla and ginger candy, pineapple RTS, star fruit pickle, etc. In addition, they have been imparted skills of operation and maintenance of processing equipment, development of art and science of production and managerial skills under protected environment. Students also learned and acquired skills of analysis of these products as per FSSAI standards. They also acquire knowledge to register and get license from FSSAI to start food business.

B. Processing and value addition of horticultural crops

Seven (07) students participated in this ELP (skill module). During the module, students learned processing and value addition of selected horticultural crops including king chili, cassava, ginger, jackfruit, etc. The major products of this module included king chilly pickle with ginger and garlic, cassava flour, ginger candy, dried ginger pickle, jackfruit candy, etc. . In addition, they have been imparted skills of operation and maintenance of processing equipment, development of art and science of production and managerial skills under protected environment. Students also learned and acquired skills of analysis of these products as per FSSAI standards. They also acquire knowledge to register and get license from FSSAI to start food business.





C. Production of bakery products

Seven (07) students were participated in ELP (Skill module). In this module students have successfully learned and achieved skills to develop various bakery products using various preparation methods. They did proximate composition analysis of the products by using different equipments available in the lab. They also performed cost analysis of the product. In addition they have imparted skills of operation and maintenance of processing equipment, development of art and science of production and managerial skills under protected environment, skill to develop detailed project proposal to start entrepreneurship. Student also learned and acquired skills of analysis of these products as per FSSAI standards. They also acquired knowledge to register and get license from FSSAI to startfood business.



Annexure 6.5.5.3

Sports and other Miscellaneous Items

Sl. No.	Name of the items	Inventory
1	Badminton racquet	02 nos.
2	Table tennis bat	04 nos.
3	Football	04 nos.
4	Football net	01 no.
5	Volleyball	02 nos.
6	Football shoes (boot)	06 nos.
7	Whistle	01 no.
8	Measuring tap (30 m)	01 no.
9	Badminton net	02 nos.
10	Volleyball net	02 nos.
11	Carom set	04 nos.
12	Chess set	04 nos.
13	Table tennis board with net	02 nos.
14	Table tennis ball	04 boxes of six balls

Annexure 6.5.7.3

Sl. No.	Name of Faculty	Name of the award/ recognition	Awarding organisation (place/country)	Year	National/I nternational/ professional society
1	Dr. Ng. Joykumar Singh, Associate Professor in Food processing and engineering				
2	Dr. Ashok Kumar Assistant Professor				
3	Dr.Punyakishore Maibam, Assistant Professor (Contract)	Laboratory Quality System Management and Internal Audit as per ISO/IEC- 17025:2017	National Institute of Plant Health Management, Hyderabad	2021	National
4	Dr. Thangjam Gopeshwor Singh Assistant Professor (Contract) of Environmental Science and Disaster Management	Nil	Nil	Nil	Nil
5	Dr. L. Sophia Assistant Professor (Contract)	Nil	Nil	Nil	Nil
6	Mr. Saroj Behera Assistant Professor (Contract)	Nil	Nil	Nil	Nil
7	Dr. Angam Raleng Assistant Professor (Contract)	Nil	Nil	Nil	Nil





B.Sc. (Hons) Horticulture College of Horticulture, Bermiok, Sikkim Central Agricultural University, Imphal



Submitted to:

National Agricultural Education Accreditation Board, ICAR, NEW DELHI

SELF STUDY REPORT PREPARATION COMMITTEE

	TASK FORCE			
Sl. No	SELF STUDY REPORT PREPARATION CON	AMIT	ree	
	University Level			
1	Dr. S. Basanta Singh	C	hairman	
	Director of Instruction, CAU,Imphal			
2	Dr. N. Brajendra Singh]	Member	
	Professor and Head, Department of PBG, College of Agriculture, Imphal			
3	Dr. S.M. Feroze]	Member	
	Associate Professor, College of Agriculture, Imphal			
4	Dr. Ng. Piloo]	Member	
	Associate Professor, College of Agriculture, Imphal			
5	Dr. M. Norjit	Member		
	Assistant Professor, College of Agriculture, Imphal			
6	Dr. Ph. Tejendra Sharma	Member		
	Assistant Professor (Sr.Scale), College of Agriculture, Imphal			
7	Dr. Y. Ranjana Devi	Member Secretary		
	Deputy Director of Instruction, CAU, Imphal			
	SELF STUDY REPORT PREPARATION CON COLLEGE Level	MMIT	ſEE	
1	Dr. A.K. Pandey		Chairman	
	Dean, College of Horticulture			
2	Dr. D. Sarmah		Member	
	Assistant Professor, Floriculture & Landscaping			
3	Dr. Y. Pandey		Member	
	Assistant Professor, Fruit Science			
4	Dr. S. Rajeshkumar Singh		Member	
	Assistant Professor, GPB & I/c AR, Academic			
5	Dr. Diana Sagolsem		Member	
	Assistant Professor, GPB, MTTC & VTC			
6	Dr. M. Victoria Devi		Member	
	Assistant Professor, Agricultural Extension, MTTC & VTC			
7	Dr. Pukhram Bhumita		Member	
	Assistant Professor, Entomology		Secretary	

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	Self Study Report
6.4	Self-Study Report of Programme
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6.4.2	Faculty Strength
6.4.3	Technical & Supporting Staff
6.4.4	Class Rooms & Laboratories
6.4.5	Conduct of Practical's & Hands-On-Training
6.4.6	Supervision of Students in UG / PG / Ph.D . Programmes
6.4.7	Feedback of Stakeholders (Students, Parents, Industries, Employers, Farmers etc.)
6.4.8	Student Intake and Attrition in the Programme for the Last five years
6.4.9	ICT Application in Curricula Delivery
6.4.10	The information pertaining to 6.4.1 to 6.4.9 has been provided for UG programme
6.4.11	Accreditation of Programmes is related to the All India Admission from ICAR
6.4.12	Certificate
6.5.	Self Study Report for the College
6.5.1.	College Administration
6.5.1.1.	College Dean's Office Establishment
6.5.1.2.	Monitoring Mechanisms for Quality Education (On-line)
6.5.1.3.	CC/Board of Studies
6.5.1.4.	Anti-Ragging Cell
6.5.1.5.	Biological waste disposal facility
6.5.1.6.	Institutional Ethics Committee for Experiment on Animals
6.5.1.7.	Committee for Prevention of Sexual Harassment of Women at Work Places

6.5.2.	Faculty
6.5.2.1.	Faculty Strength
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6.5.2.3.	Credentials of the Faculty
6.5.2.4.	Technical and Supporting Staff
6.5.3.	Learning resources
6.5.3.1	College Library (digital)
6.5.3.2.	Laboratories, Instructional farm, Workshops, Dairy Plant, Veterinary Clinic, Hatchery, Ponds etc.
6.5.3.3.	Student READY/ In-Plant Training / Internship / Experiential Learning Programmes
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6.5.4.	Student Development
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6.5.6.	Research Facilities
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6.5.7.1.	Student Performance in National Examinations
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	Annexure III
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6.4. Self-Study Report for the Degree Programme, College of Horticulture, Bermiok.

The College is offering degree programme as per recommendations of 5th Deans' Committees of ICAR/VCI/BSMA.

6.4.1. Brief History of the Degree Programme:

College of Horticulture, Bermiok, Sikkim was established on 21st May 2015 on the beautiful landscape of Tokal, South Sikkim. The state is bestowed with varied agro-climatic zones ranging from alpine region to sub-tropical hill areas. This favours cultivation of diverse agricultural and horticultural crops. The region is also one of the diversity hotspots i.e., Eastern Himalayas of the world allowing many diverse species of flora and fauna.

The land is the home of horticultural crops like large cardamom and many species of orchid. The region has huge scope of horticultural crops like off-season vegetables, ginger, turmeric, anthurium, roses, Sikkim mandarin, tomato, cole crops. The activities relating to promotion of non-traditional practices like bee keeping and mushroom cultivation, plantation of bamboo and medicinal plants have added diversification to horticultural activities. The significance of horticulture in improving land use, promoting crop diversification, generating employment and providing nutritional security to people has been recognized by and large by common people, policy farmers and programme implementers. Hence, horticulture features as an important area in the overall policy frame work for development in the state.

Mandate:

- (i) Development of appropriate human resource for carrying out various horticultural activities in the state of Sikkim
- (ii) Development of relevant technologies suitable for horticultural sector aiming to welfare of farming community of Sikkim
- (iii) Dissemination of horticultural technologies for the development of sustainable, scientific and profitable horticultural sector among the various stake holders.

Objectives

The College has been established with following broad objectives

- To impart education in different branches of horticulture and allied sciences
- To further the advancement of learning by undertaking research in horticulture and allied sciences
- To undertake the programmes of extension education in the state of Sikkim and others in the jurisdiction of CAU, Imphal and
- To undertake such other activities as it may deem fit from time-to-time.

Achievements of the College:

- A Demonstration cum Research block of Temperate fruits has been established comprising 60 plants of temperate fruits crops viz. apple var. Anna, HRMN-99, Pear var. Babugosha, Peach var. Red Heaven, Kiwi var. Allison, Apricot var. New Castle, Nectarine var. Silver King, Plum var. Santa Rosa, Persimmon var. Hachiya, Walnut var. Local. All the crops are well established and acclimatised. Flowering and fruiting were observed during February-March 2019 of apple, nectarine persimmon and kiwi.
- A Demonstration cum research block of Tropical and subtropical fruit crops has also been established in experimental farm which includes various tropical and subtropical fruit crops like litchi, rose apple, aonla, jackfruit, lemon, jamun, hogplum, sapota and avocado were planted. The planting materials were procured from UBKV, Cooch Behar and IIHR, Bengaluru.
- Establishing polyhouse complex comprising Hi-tech polyhouses, low-cost polyhouse for raising orchids, anthurium, gerbera, capsicum, tomato, palak, gerbera, cherry tomato, cucumber etc were grown.
- Eighteen leaflets and more than 30 flex charts were published containing the information of various organic practices for horticultural crops viz., large cardamom, Sikkim mandarin, Guava, Kiwifruit, Papaya, chayote, anthurium, Dalle khorsani (Chilli), etc. for disseminating to the farmers and students.
- Under the Department of Floriculture, a demonstration cum research block of floriculture was established for raising gerbera, poinsettia, tuberose, croton, bougainvillea, gardenia plants and heliconia. The materials were collected from Model Floriculture Unit, Govt. of Sikkim, Horticulture Research Station, Guwahati, Assam and Horticulture farm of CAEPHT, Ranipool, Sikkim.
- Demonstration cum research block of vegetables and spice crops was established. Annual vegetables like cowpea, okra, amaranthus, French bean are regularly grown. Cucurbits viz., cucumber, brinjal and dale chilli are grown as sole crops.
- Various equipment for laboratory and furniture were purchased for smooth functioning of the college.
- A vegetable cafeteria has been developed comprising more than 30 types of vegetables with their promising varieties.
- The research farm has ongoing research trial on Buckwheat, Jack Bean, Indian Bean, Brinjal, Mustard, Elephant foot yam etc.
- > A Medicinal and aromatic Garden has also been established.

- Adoption of model village for plantation of fruit crops such as Pear, Peach and Guava was done in uncultivated areas of Passi, Pabong and Chalamthang villages, respectively under south Sikkim.
- Adoption of model village for cultivation of vegetable crops such as cauliflower, broccoli and cabbage were done in the village of Passi, Pabong and Chalamthang villages, respectively under south Sikkim.
- During the 4th Inter-collegiate Youth Festival of CAU 2017-18, College of Horticulture, Bermiok, Sikkim bagged 2 gold medals, 4 silver medals, 1 bronze medal and 1 consolation prize leading to overall runner's trophy among the 13 constituent colleges of Central Agricultural University, Imphal. The college also won the best cultural procession.
- During the 5th Inter-Collegiate Youth Festival of CAU 2018, College of Hortculture, Bermiok, Sikkim bagged the best cultural procession. Mr Alokesh Gangopadhyay, 2nd Year, 14/Hort/17, got 1st position in light vocal and ex-tempore and 2ndposition in clay modelling. He also received the best male participant.
- Students of this college have shown outstanding performance in the AIEE (All India Entrance Examination for ICAR- JRF).

List of ICAR – JRF Holders, 2019

Sl. No.	Name of the student	Discipline	ICAR- JRF RANK	Seat Allotted
1.	Ms. L. Mashine	Horticulture	UPS-9, ST-24	MPKV, Rahuri Horticulture

Sl.	Name of the student	Discipline	ICAR- JRF	Seat Allotted
No			RANK	
•				
1.	Brendon Lalchawimia	Physical Science	ST 5	IARI, New Delhi
		T Hysical Science	51-5	Agricultural Chemicals
2.	Rajshree Chand	Plant	AID 53	PAU, Ludhiana
		Biotechnology	AIX-33	Plant Biotechnology
3.	Ms. Tingku Soram			Dr. RPCAU, Pusa
		Plant Science	UPS-6	Plant Breeding &
				Genetics
4.	Ms. Daffylabeth L.	Horticulture	UPS – 8,	PAU, Ludhiana
	VChyne	Homeulture	ST- 18	Olericulture
5.	Ms. Losa Lajeo	Horticulture	ST-27,	VNMKV, Prabhani
		nonuculture	UPS-14	Olericulture

List of ICAR – JRF Holders, 2020

List of ICAR – JRF Holders, 2021

Sl. No.	Name of the student	Discipline	ICAR- JRF RANK	Seat Allotted
1.	Juliana	Floriculture	UPS rank -06	IGKV, Raipur

List of ICAR – JRF Holders, 2022

Sl. No.	Name of the student	Discipline	ICAR- JRF RANK	Seat Allotted
1.	Ms. Aanamika Rai	Horticulture	AIR-21, UPS 1	Waiting for seat
2.	Ms. Iutran passah	Horticulture	AIR174, ST-6, UPS 2	Waiting for seat
3.	Ms. K.P.Asinlu	Horticulture	AIR240, ST-8, UPS 3	Waiting for seat
4.	Ms. Nena Taku	Horticulture	AIR246, ST-9, UPS 4	Waiting for seat

List of Toppers of B.Sc. (Hons.) Horticulture, Since Inception

Sl.	Name	Year of Passing
No.		
1.	Ms. L Mashine	2019
2.	Mr. Afad Akbar	2020
3.	Mr. Bomchai Ong	2021
4.	Mr. Aanamika Rai	2022

6.4.2. Faculty Strength:

Sl. No.	Sanctioned Faculty	Faculty Place	Vacant Position	Faculty recommended by ICAR/UGC/VCI/Other regulatory bodies
1.	Professor	6	8 (Advertised)	8
2.	Associate Professor	Nil	-	11
3.	Assistant Professor	25	25	31
	Total	31	33	50

As per faculty recommended by ICAR regulatory bodies the faculty strength is adequate at COH and its sister college CAEPHT, CAU are well adequate to address the academic curricula delivery. Special focus is paid for all round development of student to show their hidden talent in addition to their educational programme. The College organizes co-curricular and extra-curricular activities for overall development of student's personality and carrier. Annual College Week, Blood Donation Camp, Science Day, Awareness Programs, NSS, Physical Education, Sports, Literary activities etc. are also organized to give the opportunity to the students. The students also participate regularly inter collegiate event of University and National level competitive events.

6.4.2.1. Faculty Profile (department wise):

The existing faculty strengths of College of Horticulture, MTTC & VTC and College of Agricultural Engineering and Post-Harvest Technology is sufficient for academic requirement of the college.

Sl.	Department	Sanctioned Faculty	Filled	Vacant	Faculty
No.			Post	Post	recommended by
					the ICAR
1.	Fruit science	Professor	1	1	1
		Associate professor	-	-	2
		Assistant professor	1	-	3
2.	Vegetable science	Professor	-	1	1
		Associate professor	-	-	1
		Assistant professor	-	-	4
3.	Floriculture and	Professor	1	1	1
	landscape architecture	Associate professor	-	-	1
		Assistant professor	1	-	2
4.	Post-harvest	Professor	2	1	1
	technology	Associate professor	-	-	1
		Assistant professor	1	-	2
5.	Plant protection	Professor	-	1	1
		Associate professor	-	-	2

Department wise faculty strength

		Assistant professor	3	-	3
6.	Basic science	Professor	-	1	1
		Associate professor			2
		Assistant professor	15		6
7.	Natural resource	Professor	3	1	1
	management	Associate professor			1
		Assistant professor	2		6
8.	Social science	Professor		1	1
		Associate professor			1
		Assistant professor	1		5

Information regarding faculties, their qualification and course taken for the B.Sc. (Hons) Horticulture

Since 2015-2022				
S.N.	Course Title	Taught by	Highest Degree	
1	Elementary Statistics and Computer Application	Mrs. T. L. Chanu (Assistant Professor) * Er. Robert Ph (Assistant Professor) * Er. Rajiv Pradhan (Assistant Professor) * Dr. S. Meher (Assistant Professor) *	M. Phil M.Tech, Computer M. Tech, Electronics Ph.D, Maths	
2	Elementary Plant Biochemistry	Dr. H. Sanjita Devi (Assistant Professor) Dr. Sudip Das (Assistant Professor) Dr. Baleswar Sharma (Assistant Professor) *	Ph.D. Biochemistry Ph.D. Biotechnology Ph.D. Biochemistry	
3	Introductory Crop Physiology	Dr. H. Sanjita Devi(Assistant Professor) Dr. Sudip Das(Assistant Professor) Mr. M. Sanju Singh(Assistant Professor) * Dr. A.B. Sherpa(Assistant Professor) * Dr. Manish Gurung * Dr. Diana Sagolsem (Assistant Professor)	Ph.D. Biochemistry Ph.D. Biotechnology M.Sc. Horticulture, NET Ph.D . Agronomy Ph.D . Fruit Science Ph.D . Genetics and Plant Breeding	
4	Introductory Microbiology	Dr. D. Talukdar (Assistant Professor) Dr. Y. Rupert Anand (Assistant Professor) Dr. S. Gurumayum (Assistant Professor) *	Ph.D. Plant Pathology Ph.D. Plant Pathology Ph.D Microbiology	
5	Principles of Genetics and Cytogenetics	Dr. S. Rajeshkumar Singh (Assistant Professor) Dr. Diana Sagolsem (Assistant Professor)	Ph.D. GPB Ph.D. GPB	

6	Communication Skills and Personality Development	Dr. D. Roy(Assistant Professor) *	Ph.D. English
7	Fundamental of Soil Science	Dr. Ch. Birendrajit (Assistant Professor) *	Ph.D. Soil Science
8	Economics and Marketing	Dr. A. Anuradha Devi(Assistant Professor) * Dr. M.Victoria Devi (Assistant Professor)	Ph.D. Agril.Economics Ph.D. Agril.Extension Education
9	Fundamentals of Horticulture	Dr. Y. Pandey(Assistant Professor) Dr. Manish Gurung* Dr. Esther L(Assistant Professor) Dr. C. Mukhim(Assistant Professor) Dr. Dipika Sarmah(Assistant Professor)	Ph.D. Fruit Science Ph.D. Fruit Science Ph.D. Fruit Science Ph.D. Fruit Science Ph.D. Floriculture
10	Principles of Landscape Architecture	Dr. S. Vinodh(Assistant Professor) Dr. Dipika Sarmah(Assistant Professor)	Ph.D. Floriculture Ph.D. Floriculture
11	National Service Scheme/National Cadet Corp	Mr. M. Sanju Singh* Dr. D.Talukdar(Assistant Professor) Dr. Dipika Sarmah S. Rajeshkumar Singh	M.Sc. NET, Ph.D
12	Fundamental of Plant Pathology	Dr. Y. Rupert Anand (Assistant Professor) Dr. D. Talukdar (Assistant Professor)	Ph.D. Plant Pathology Ph.D. Plant Pathology
13	Fundamentals of Entomology	Dr. P. Bhumita(Assistant Professor) Dr. D. Talukdar(Assistant Professor)	Ph.D. Agril. Entomology Ph.D. Plant Pathology
14	Principles of Plant Breeding	Dr. S. Rajeshkumar Singh (Assistant Professor) Dr. Diana Sagolsem (Assistant Professor)	Ph.D. Genetics and Plant Breeding Ph.D. Genetics and Plant Breeding
15	Soil Fertility and Nutrient Management	Dr. Y. Birendrajit Singh (Assistant Professor)	Ph.D. Soil Science
16	Water Management in Horticultural Crops.	Dr. Deepak Jhajaria (Professor)* Dr. B.C. Kushre (Professor)* Dr. Shivam Gupta (Assistant Professor)*	Ph.D. Agri. Engineering Ph.D. Agri. Engineering Ph.D. Agri. Engineering
17	Plant Propagation and Nursery Management	Dr. Yamuna Pandey (Assistant Prof.) Dr. Manish Gurung (Assistant Prof.)*	Ph.D. Fruit Science Ph.D. Fruit Science
18	Introduction to Major Field Crops.	Dr. Sunil Kumar Chongtham Dr. A. B. Sherpa*	Ph.D. Agronomy Ph.D. Agronomy
19	Growth and Development of Horticulture Crops.	Dr. H. Sanjita Devi Mr. M. Sanju Singh (SWO)*	Ph.D. Biochemistry MSc. Vegetable Science
20	Physical and Health Education	Mr. M. Sanju Singh (SWO)*	MSc. Vegetable Science
21	Information and Communication Technology	Er. Rajiv Pradhan (Assistant Professor)* Er. Ph. Robert (Assistant Professor)*	MTech. ECC MTech. Computer Science
22	Tropical and	Dr. Y. Pandey (Assistant Professor)	Ph.D. Fruit Science

	Subtropical Fruits	Dr. Esther L (Assistant Professor) Dr. C. Mukhim (Assistant Professor)	
23	Temperate Fruit Crops	Dr. Y. Pandey (Assistant Professor) Dr. Esther L (Assistant Professor) Dr. C. Mukhim (Assistant Professor)	Ph.D. Fruit Science
24	Weed Management in Horticultural Crops	Dr. A. B. Sherpa (Assistant Professor)*	Ph.D Agronomy
25	Commercial Floriculture	Dr. D. Sarmah (Assistant Professor) Dr. S. Vinodh (Assistant Professor)	Ph.D Floriculture
26	Tropical and Subtropical Vegetables	Mr. M. Sanju Singh* Dr. A.K.Pandey (Professor)	M.Sc. Vegetable Science Ph.D Vegetable Science
27	Elementary Plant Biotechnology	Dr. S. Rajeshkumar Singh(Assistant Professor) Dr. Diana S(Assistant Professor)	Ph.D. Genetics and Plant Breeding Ph.D. Genetics and Plant Breeding
28	Farm Power and Machinery	Dr. N.S. Chauhan (Professor)* Er. S.K. Chauhan (Assistant Professor)*	Ph. D
29	Fundamentals of Food Technology	Dr. H. Sanjita Devi (Assistant Professor) Dr. S.Das	Ph. D Biochemistry
30	Nematode Pests of Horticultural Crops and their Management	Dr. P. Bhumita (Assistant Professor) Dr. Y. Rupert Anand (Assistant Professor)	Ph. D Entomology Ph. D Plant Pathology
31	Diseases of fruit, Plantation, Medicinal and Aromatic Crops	Dr. Y. Rupert Anand Dr. D. Talukdar	Ph. D Plant Pathology
32	Soil, Water and Plant Analysis	Dr. Y. Birendrajit Singh (Assistant Professor)*	Ph.D. Soil Science
33	Spices and Condiments	Dr. Meinam Chanchan*	Ph.D. Spices
35	Plantation Crops	Dr. Yamuna Pandey (Assistant Professor) Dr. Meinam Chanchan (Assistant Prof.) * Dr. Manish Gurung (Assistant Prof.) * Dr. Callisthnics (Assistant Prof.)	Ph.D. Fruit Science Ph.D. Spices Ph.D. Fruit Science Ph.D. Fruit Science
36	Breeding of Fruits and Plantation, Medicinal & Aromatic Crops.	Dr. S. Rajeshkumar Singh (Assistant Professor) Dr. Yamuna Pandey (Assistant Professor)	Ph. D (GPB) Ph.D. Fruit Science
37	Temperate Vegetable Crops.	Dr. M. Sanju Singh (SWO)*	M.Sc. Vegetable Science
38	Insects Pests of Fruits , Plantation, Medicinal & Aromatic crops.	Dr. P. Bhumita (Assistant Professor)	Ph.D. Agril. Entomology
39	Precision Farming and Protected Cultivation	Dr. Sunil Kumar Chongtham Dr. A. B. Sherpa	Ph.D. Agronomy Ph.D. Agronomy

	Dry land Horticulture	Dr. Yamuna Pandey (Assistant Professor)	Ph.D. Fruit Science
40		Dr. Manish Gurung *	Ph.D. Fruit Science
		Dr. Callisthnics (Assistant Prof.)	Ph.D. Fruit Science
		Dr. Ch. Birendrajit (Assistant Professor)	Ph.D Soil Sc
41	Organic Farming	Dr. P.Bhumita(Assistant Professor)	Ph.D Entomology
	organie i urning	Dr. Sunil K. Chongtham(Assistant	Ph.D Agronomy
		Professor)	
	Environmental	Dr. P. Bhumita (Assistant Professor)	Ph.D
42	Studies and Disaster	Dr. A.B Sherpa(Assistant Professor)*	
	Management	Dr. R.P.Misra(Professor)*	
		Dr. M.Victoria Devi(Assistant Professor)	
10	Introductory	Dr. Sunil K. Chongtham(Assistant	Ph.D Agronomy
43	Agroforestry	Professor)	
		Dr. A.B. Sherpa(Assistant Professor)*	
44	Agro-meteorology	Dr. Sunil K. Chongtham	Ph.D Agronomy
		Dr. A.B. Snerpa (Assistant Professor)*	N D
	Postharvest	Dr. Said P.P (Assistant Professor)	Ph.D
45	Management of	Dr. Sujata Jena (Professor)	
	Horticultural Crops	Dr. KP Misra(Professor)	
	Davidaria	Dr. S. villodii (Assistant Professor)	
46	Breeding of Vegetable Tuber and	Dr. Diana S.	Ph.D GPB
-10	Spice Crops	Dr. S. Rajesh Kumar Singh	
		Mr. M. Sanju Singh	M.Sc Vegetable Science
47	Potato and tuber crops	Dr. S.Vinodh	Ph.D Floriculture
	-		
		Dr. Diana S	Ph.D GPB
	Diseases of	Dr. Diana S	Ph.D GPB Ph. D Plant Pathology
48	Diseases of Vegetables,	Dr. Diana S Dr. D. Talukdar (Assistant Professor)	Ph.D GPB Ph. D Plant Pathology
48	Diseases of Vegetables, Ornamentals and	Dr. Diana S Dr. D. Talukdar (Assistant Professor) Dr. Y. Rupert Anand(Assistant Professor)	Ph.D GPB Ph. D Plant Pathology
48	Diseases of Vegetables, Ornamentals and Spice Crops	Dr. Diana S Dr. D. Talukdar (Assistant Professor) Dr. Y. Rupert Anand(Assistant Professor)	Ph.D GPB Ph. D Plant Pathology
48	Diseases of Vegetables, Ornamentals and Spice Crops	Dr. Diana S Dr. D. Talukdar (Assistant Professor) Dr. Y. Rupert Anand(Assistant Professor) Dr. Y. Pandey	Ph.D GPB Ph. D Plant Pathology Ph.D Fruit Science
48	Diseases of Vegetables, Ornamentals and Spice Crops Orchard and Estate	Dr. Diana S Dr. D. Talukdar (Assistant Professor) Dr. Y. Rupert Anand(Assistant Professor) Dr. Y. Pandey Dr. Manish Gurung	Ph.D GPB Ph. D Plant Pathology Ph.D Fruit Science
48	Diseases of Vegetables, Ornamentals and Spice Crops Orchard and Estate Management	Dr. Diana S Dr. D. Talukdar (Assistant Professor) Dr. Y. Rupert Anand(Assistant Professor) Dr. Y. Pandey Dr. Manish Gurung Dr. C. Mukhim Dr. Fether J	Ph.D GPB Ph. D Plant Pathology Ph.D Fruit Science
48	Diseases of Vegetables, Ornamentals and Spice Crops Orchard and Estate Management	Dr. Diana S Dr. D. Talukdar (Assistant Professor) Dr. Y. Rupert Anand(Assistant Professor) Dr. Y. Pandey Dr. Manish Gurung Dr. C. Mukhim Dr. Esther L.	Ph.D GPB Ph. D Plant Pathology Ph.D Fruit Science
48	Diseases of Vegetables, Ornamentals and Spice Crops Orchard and Estate Management Apiculture, Sericulture and Lac	Dr. Diana S Dr. D. Talukdar (Assistant Professor) Dr. Y. Rupert Anand(Assistant Professor) Dr. Y. Pandey Dr. Manish Gurung Dr. C. Mukhim Dr. Esther L. Dr. P. Bhumita	Ph.D GPB Ph. D Plant Pathology Ph.D Fruit Science Ph.D. Agril. Entomology
48 49 50	Diseases of Vegetables, Ornamentals and Spice Crops Orchard and Estate Management Apiculture, Sericulture and Lac Culture.	Dr. Diana S Dr. D. Talukdar (Assistant Professor) Dr. Y. Rupert Anand(Assistant Professor) Dr. Y. Pandey Dr. Manish Gurung Dr. C. Mukhim Dr. Esther L. Dr. P. Bhumita	Ph.D GPB Ph. D Plant Pathology Ph.D Fruit Science Ph.D. Agril. Entomology
48 49 50	Diseases of Vegetables, Ornamentals and Spice Crops Orchard and Estate Management Apiculture, Sericulture and Lac Culture. Insect Pests of	Dr. Diana S Dr. D. Talukdar (Assistant Professor) Dr. Y. Rupert Anand(Assistant Professor) Dr. Y. Pandey Dr. Manish Gurung Dr. C. Mukhim Dr. Esther L. Dr. P. Bhumita Dr. P. Bhumita	Ph.D GPB Ph. D Plant Pathology Ph.D Fruit Science Ph.D. Agril. Entomology Ph.D. Agril. Entomology
48 49 50	Diseases of Vegetables, Ornamentals and Spice Crops Orchard and Estate Management Apiculture, Sericulture and Lac Culture. Insect Pests of Vegetables,	Dr. Diana S Dr. D. Talukdar (Assistant Professor) Dr. Y. Rupert Anand(Assistant Professor) Dr. Y. Pandey Dr. Manish Gurung Dr. C. Mukhim Dr. Esther L. Dr. P. Bhumita Dr. P. Bhumita	Ph.D GPB Ph. D Plant Pathology Ph.D Fruit Science Ph.D. Agril. Entomology Ph.D. Agril. Entomology
48 49 50 51	Diseases of Vegetables, Ornamentals and Spice Crops Orchard and Estate Management Apiculture, Sericulture and Lac Culture. Insect Pests of Vegetables, Ornamental and Spice	Dr. Diana S Dr. D. Talukdar (Assistant Professor) Dr. Y. Rupert Anand(Assistant Professor) Dr. Y. Pandey Dr. Manish Gurung Dr. C. Mukhim Dr. Esther L. Dr. P. Bhumita Dr. P. Bhumita	Ph.D GPB Ph. D Plant Pathology Ph.D Fruit Science Ph.D. Agril. Entomology Ph.D. Agril. Entomology
48 49 50 51	Diseases of Vegetables, Ornamentals and Spice Crops Orchard and Estate Management Apiculture, Sericulture and Lac Culture. Insect Pests of Vegetables, Ornamental and Spice Crops.	Dr. Diana S Dr. D. Talukdar (Assistant Professor) Dr. Y. Rupert Anand(Assistant Professor) Dr. Y. Pandey Dr. Manish Gurung Dr. C. Mukhim Dr. Esther L. Dr. P. Bhumita Dr. P. Bhumita	Ph.D GPB Ph. D Plant Pathology Ph.D Fruit Science Ph.D. Agril. Entomology Ph.D. Agril. Entomology
48 49 50 51 52	Diseases of Vegetables, Ornamentals and Spice Crops Orchard and Estate Management Apiculture, Sericulture and Lac Culture. Insect Pests of Vegetables, Ornamental and Spice Crops. Medicinal and	Dr. Diana S Dr. D. Talukdar (Assistant Professor) Dr. Y. Rupert Anand(Assistant Professor) Dr. Y. Pandey Dr. Manish Gurung Dr. C. Mukhim Dr. Esther L. Dr. P. Bhumita Dr. P. Bhumita Dr. Dipika Sarmah	Ph.D GPB Ph. D Plant Pathology Ph.D Fruit Science Ph.D. Agril. Entomology Ph.D. Agril. Entomology Ph.D. Floriculture and
48 49 50 51 52	Diseases of Vegetables, Ornamentals and Spice Crops Orchard and Estate Management Apiculture, Sericulture and Lac Culture. Insect Pests of Vegetables, Ornamental and Spice Crops. Medicinal and Aromatic Crops	Dr. Diana S Dr. D. Talukdar (Assistant Professor) Dr. Y. Rupert Anand(Assistant Professor) Dr. Y. Pandey Dr. Manish Gurung Dr. C. Mukhim Dr. Esther L. Dr. P. Bhumita Dr. P. Bhumita	Ph.D GPB Ph. D Plant Pathology Ph.D Fruit Science Ph.D. Agril. Entomology Ph.D. Agril. Entomology Ph.D. Floriculture and Landscaping.
48 49 50 51 52 52	Diseases of Vegetables, Ornamentals and Spice Crops Orchard and Estate Management Apiculture, Sericulture and Lac Culture. Insect Pests of Vegetables, Ornamental and Spice Crops. Medicinal and Aromatic Crops Seed Production of Elower and	Dr. Diana S Dr. D. Talukdar (Assistant Professor) Dr. Y. Rupert Anand(Assistant Professor) Dr. Y. Pandey Dr. Manish Gurung Dr. C. Mukhim Dr. Esther L. Dr. P. Bhumita Dr. P. Bhumita Dr. P. Bhumita	Ph.D GPB Ph. D Plant Pathology Ph.D Fruit Science Ph.D. Agril. Entomology Ph.D. Agril. Entomology Ph.D. Floriculture and Landscaping. Ph.D. Genetics and Plant Breading
48 49 50 51 52 53	Diseases of Vegetables, Ornamentals and Spice Crops Orchard and Estate Management Apiculture, Sericulture and Lac Culture. Insect Pests of Vegetables, Ornamental and Spice Crops. Medicinal and Aromatic Crops Seed Production of Flower and Ornamental Plants.	Dr. Diana S Dr. D. Talukdar (Assistant Professor) Dr. Y. Rupert Anand(Assistant Professor) Dr. Y. Pandey Dr. Manish Gurung Dr. C. Mukhim Dr. Esther L. Dr. P. Bhumita Dr. P. Bhumita Dr. P. Bhumita Dr. Dipika Sarmah Dr. S. Rajeshkumar Singh Dr. M. Sanju Singh (SWO)	Ph.D GPB Ph. D Plant Pathology Ph.D Fruit Science Ph.D. Agril. Entomology Ph.D. Agril. Entomology Ph.D. Floriculture and Landscaping. Ph.D. Genetics and Plant Breeding MSc. Vegetable Science
48 49 50 51 52 53 54	Diseases of Vegetables, Ornamentals and Spice Crops Orchard and Estate Management Apiculture, Sericulture and Lac Culture. Insect Pests of Vegetables, Ornamental and Spice Crops. Medicinal and Aromatic Crops Seed Production of Flower and Ornamental Plants.	Dr. Diana S Dr. D. Talukdar (Assistant Professor) Dr. Y. Rupert Anand(Assistant Professor) Dr. Y. Pandey Dr. Manish Gurung Dr. C. Mukhim Dr. Esther L. Dr. P. Bhumita Dr. P. Bhumita Dr. P. Bhumita Dr. Dipika Sarmah Dr. S. Rajeshkumar Singh Dr. M. Sanju Singh (SWO)	Ph.D GPB Ph. D Plant Pathology Ph.D Fruit Science Ph.D. Agril. Entomology Ph.D. Agril. Entomology Ph.D. Floriculture and Landscaping. Ph.D. Genetics and Plant Breeding MSc. Vegetable Science. Ph.D. (Eloriculture)

	Horticulture Crops	Dr. Said P.P.*	PhD. (Post Harvest
		Dr. Meinam Chanchan (Assistant Prof.) *	Technology)
			Ph. D. (Post Harvest
			Technology)
55	Horti-Business Management	Dr. A. Anuradha Devi*	PhD. (Agril. Economics)
	Entrepreneurship	Dr. A. Anuradha Devi*	PhD. (Agril. Economics)
56	Development and Business Management	Dr. M. Victoria Devi	PhD (Agril. Extension)
57	Fundamentals of Extention Education	Dr. M. Victoria Devi	Ph. D (Agril. Extension)
58	Commercial	Dr. Yamuna Pandey (Assistant Professor)	Ph.D. Fruit Science
-			
	Processing of Fruits	Dr. S. Vinodh (Assistant Prof.)	PhD. (Floriculture and
59	and Vegetables for	Dr. Said. P.P	Landscaping)
	value Addition		Ph.D. (Post Harvest
			Technology)
(0)	Floriculture and	Dr. Dipika Sarmah (Assist.Prof.)	PhD. (Floriculture and
60	Architecture		Landscaping)
<u>(1</u>	Alchitecture.		
61	Mushroom Culture	Dr. Y. Rupert Anand	Ph. D. (Plant Pathology)
62	Bee keeping	Dr. P.Bhumita	Ph.D. (Agril.
02			Entomology)

* = Faculties of CAEPHT, CAU, Ranipool.

6.4.3. Technical and Supporting staff

	Filled Post	Vacant Post	Staff recommended by
			ule ICAK
Technical Assistant	4	4	10
Office Assistant	0	5	5
Lab Technician	13	2	28
Lab Attendant	4	2	14
Total	21	13	57

6.4.4. Classrooms and Laboratories:

Sl. No.	No. of class rooms/Unit	Theory & Practical batches	List of Laboratories	Functional Laboratories
1.	4	1 st Year, 2 nd Year, 3 rd Year and 4 th Year of B. Sc. (Hons.)	03	03
		Horticulture		

LIST OF LABORATORY EQUIPMENTS OF COH, BERMIOK

• Department of Fruit Science

SL.	Equipment	Number
1	Analytical Weighing Balance	01
2	GPS	01
3	Digital refractometer	01
4	Digital vernier calliper	05
	Various farm tools viz. Hand hoe, Khurpi, spade, sickle etc	-

• Department of Vegetable Science

SL.	Equipment	Number
1	Leaf Area Meter (Table top)	01
2	Portable Chlorophyll Concentration Meter	01
3	Honda Power Weeder - Self Propelled	01
4	Various farm tools viz. Hand hoe, Khurpi, spade, sickle etc	-

• Department of Post- Harvest Technology

SL.	Equipment	Number
1	Fruit Pulper Machine	01
2	Electric Operated Tissue Homogenizer IKA LED	01
3	Diesel Generator	01
4	Pouch Filling & Sealing Machine	01
5	P P Cape Sealing Machine	01
6	Shrink Packaging Machine	01
7	Vacuum Filling Machine	01
8	Testo LCD with backlight Digital Probe gem Thermometer TESTO & T104	01

• Department of Floriculture & Landscape Architecture

SL.	Equipment	Number
1	Refrigerator Model: DAM Double Door	01
2	Tray Dryer	02
3	Hot air Oven	01
4	Various Farm tools like budding knife, secateurs, hand hoe etc	-
5	Portable Leaf Area Meter	01
6	Analytical Weighing Balance	01

•	Department of Plant Protection
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SL.	Equipment's	Number
1	Trinocular Microscope	01
2	Magnus Monocular Microscope	04
3	Dissecting Microscope	01
4	Olympus Trinocular Microscope	01
5	Laminar Air Flow	01
6	Refrigerator Model: DAM Double Door	01
7	Hot air oven	02
8	UV Steriliser	01
9	Autoclave	01
10	Zeiss Stereo Microscope	01
11	Dissection Tray	20
12	Insect collection net	20
13	Brass Sieve	03

Department of Natural Resource Management

SL.	Equipment	Number
1	Rotary Shaker	01
2	Water Bath	01
3	Automatic Nitrogen Digestion & Distillation System	01
4	Weighing balance	01
5	Electrical Conductivity meter	02
6	BOD Incubator	01
7	Flame Photometer	01
8	Double Distillation Unit	01
9	UV-VIS Spectrophotometer	01
10	Hot Plate	01
11	Soil-Tensiometer (Irrometer)	07
12	Soxlet	01

• Department of Basic Science

SL.	Equipment	Number
1	Compound Microscope	04
2	Laminar Air Flow (Vertical)	01
3	BOD Incubator	01
4	pH Meter	02
5	Magnetic Stirrer	02
6	Centrifuge	01

7	Deep Freezer	02
8	Seed Germinator	01
9	Hot air oven	01
10	Microwave	02
11	Horizontal gel electrophoresis	01

Farm Facilities

- Availability of Farm equipment viz. Brush cutter, power tiller and other farm implements
- All the essential garden tools viz. Hedge shear, Pruning Secateurs, Digging trowel, water cane, Pruning and budding knife, Khurpi, spade, garden rake, measuring tape and Hand sprayers etc. are available for maintaining the farm
- The Low-cost polyhouses and Hi-Tech Greenhouse has been established in the farm for growing various seasonal and annual vegetables.
- Availability of water supply to the farm through sprinkler and drip mode
- Development of demonstration farm cum research block for vegetable, spice crops and flower where the practical work can be done smoothly.
- Development of Orchard for demonstration of practical classes for fruit crops.
- Development of High Density Orchard of Guava is done for Research and Educational purpose.
- Establishment of Temperate fruit Block (Orchard) has been done in college campus.
- Establishment of Tropical and Sub-tropical fruit block is done.

6.4.5. Conduct of Practical and Hands-on-Training:

Practical classes are regularly conducted from 8 am – 10 am from Monday to Saturday. Field/ orchard visit for identification and practical of horticultural crops. As needed the students are taken to nearby institutes like ICAR-National Research Centreorchids, Pakong, Sikkim, Model Floriculture, Govt. of Sikkim, Temi Tea Garden and ICAR-NOFRI, Tadong, Sikkim for acquiring the requisite practical knowledge.

6.4.6. Supervision of students in PG/PhD programmes: NA

6.4.7. Feedback of stakeholders (Students, parents, industries, employers, farmers etc.):

This college is especially for the 80% tribal students & gives opportunities to the tribal students for the career development in Horticulture/Agriculture sector. This college has kept suggestion and complaints box in college premises. Regular counselling meetings are organized and in emergency parents are also participated for the personality developments of students. This college has provided an excellent platform and infrastructure to establish rapport between students and teachers. During extension activities the farmer's feedback and
problems are duly recorded to solve the problems. Feedback forms are attached as **Annexure V.**

6.4.8. Student intake and attrition in the programme for last five years:

The College presently offers only Under Graduate Programme in Horticulture *i.e.* B.Sc. (Hons.) Horticulture which is of 4 years duration. The annual intake of students to the college at UG level has increased since the inception of the university.

Name of the Degree Programme	Actual student admitted in last five years Attrition (%)				Att	rition (%)			
B.Sc. (Hons.)	Y1	Y2	Y3	Y4	Y5	Y1	Y2	Y3	Y4	Y5
Horticulture	15	20	19	16	19	0.25	1	0.05	0.27	0.13

6.4.9. ICT Application in Curricula Delivery: Yes

The College of Horticulture, CAU, is well equipped to provide adequate facilities to the students. Students are fully equipped with computer with internet facilities during their computer classed and other time whenever they required. A smart classroom with LCD projector and audio-visual aids for better delivery of lectures is available. All the four-class room have LCD projector, a table, whiteboards/screen, black board with duster has been created in each class room for the use of teachers.

6.4.10. The information pertaining to 6.4.1 to 6.4.9 shall be provided for each one of UG, PG and Ph. D Degree Programmes, separately, and to be presented College-wise: **Yes**

6.4.11. Since the accreditation of Programmes is related to the All-India Admission from ICAR and also having weightage for college accreditation, therefore the data presented in the section 6.4 is liable to the verification at any stage.

6.4.12. Certificate (Applicable when SSR is submitted for Programme)

I, the Dean Prof. A. K. Pandey hereby certify that the information contained in the Section 6.4.1 to 6.4.9 are furnished as per the records available in the college, and degree awarding university.

of Horticulture Sikkim-737134

Signature of Dean of the College with Date & Seal



for COLLEGE OF HORTICULTURE, BERMIOK, SIKKIM CENTRAL AGRICULTURAL UNIVERSITY, IMPHAL



Submitted to:

National Agricultural Education Accreditation Board, ICAR, NEW DELHI

6.5. Self-Study Report for the College

College of Horticulture, Bermiok, Sikkim was established on 21st May 2015 which falls under the beautiful landscape of Namchi Block of South Sikkim. The state itself falls under one of the biodiversity hotspots, the eastern Himalayas which are bestowed with beautiful landscape with rich diversity of variant species of flora and fauna. It is situated in the Southern Mountain ranges of the Eastern Himalayas between Northern Latitudes 27° 4'45" and 28° 7' 45N latitudes " and 88° 45" and 88° 35' 15" E longitudes. The state enjoys varied agro-climatic zones ranging from sub-tropical in the lower valley to alpine in the upper ranges. It is the home of many orchid species.

The site of the college is situated at Tokal, Bermiok, at an elevation of 867 meters with a longitude and latitude of 88° 46.8' 92.7" and 27° 23.2' 36.3". It comes under the subtropical hill zone having a maximum temperature of 30° and minimum of 12°C with an average rainfall of 1600 mm. It is congenial to grow many horticultural crops like kiwi, apricot, peach, pear, persimmon, plum, walnut, nectarine, aonla, ber, passion fruit, mango, guava, citrus, low chilling varieties of apple, vegetable crops like French bean, garden pea, sweet potato, potato, cole crops, solanaceous vegetables, and spice crops like ginger, turmeric, large cardamom and chillies. The State is known for diversity of orchids. Apart from orchids, we also grow anthurium, gladiolus, gerbera, rose, marigold and carnation.

Mandate:

- (i) Development of appropriate human resource for carrying out various horticultural activities in the state of Sikkim
- (ii) Development of relevant technologies suitable for horticultural sector aiming to welfare of farming community of Sikkim
- (iii) Dissemination of horticultural technologies for the development of sustainable, scientific and profitable horticultural sector among the various stake holders

Objectives

The College has been established with following broad objectives:

- To impart education in different branches of horticulture and allied sciences
- To further the advancement of learning by undertaking research in horticulture and allied sciences
- To undertake the programmes of extension education in the state of Sikkim and others in the jurisdiction of CAU, Imphal and
- To undertake such other activities as it may deem fit from time-to-time.

6.5.1. College Administration

The overall administration of the academic, research, extension and other activities of the college including infrastructure development is monitored by the Dean, College of Horticulture, CAU, Bermiok, Sikkim. The Dean of College and Faculty is a whole-time salaried officer of the University. He is responsible to the Vice-Chancellor for the conduct and maintenance of the standards of teaching in the college and Faculty. He is the member of the Board of Studies of College, Academic Council, the Research Council and the Extension Education Council of the University. He shall have the authority to exercise all such disciplinary powers over the students.



Fig. 1 Hon'ble Vice Chancellor visiting Prefabricated building of COH, Bermiok



Fig 2. Prof. M. Premjit Singh, Ex-VC, CAU(I) visiting COH, Bermiok Campus

Organizational Chart



6.5.1.1 College Dean's Office Establishment:

Sl. No.	Particulars	Response
1.	Whether Dean's post has been	The post of Dean has been
	sanctioned by the appropriate	sanctioned by Department of
	authority as per ICAR Model	Agricultural Research and
	Act/UGC guidelines	Education (DARE), Ministry of
		Agriculture and Farmers Welfare,
		Govt. of India as per ICAR Model
		Act/ UGC guideline.
2.	Date of selection/joining of present	09.06.2022
	Dean	
3.	Mode of selection	By the duly constituted approved
		Selection Committee having
		Hon'ble Vice Chancellor of the
		University as Chairman as per
		Gazette of the CAU, Imphal
4.	Tenure	5 years

College Dean's Office Establishment:

Technical and Supporting staff at College of Horticulture:

Contractual staff including skilled/semi-skilled manpower (SRF, Project Assistants, and Technical) have been engaged following standard procedures of recruitment under externally funded projects (DBT Citrus, AICRP-UAE, AICRP-PEASEM). Need based skilled/semi-skilled man power; security guard is hired through the approved contractor as per rules and regulations of the Central/State Government.

6.5.1.2. Monitoring Mechanism for Quality Education:

Monitoring mechanism has been adopted to identify problems in implementing the programme and to improve the effectiveness of the programme by taking up remedial actions. The college internal quality assessment assurance system includes:

Teaching

• Following Course curriculum as per ICAR-V Deans' Committee recommendation for undergraduates.

- Frequent visit of Dean and I/c Assistant Registrar (Academic) in classrooms and laboratories to monitor quality of instructions and methods of delivery.
- Strictly following Academic calendar issued by the university and is made available to all students and faculty members well before the commencement of the academic session.
- Mid semester, practical and final theory examination are conducted timely to assess the students
- Cross campus teaching is also implemented in the college.
- Assignments are regularly given to students in each of the courses related to the curriculum
- 80% attendance in individual course is essential to appear in final examination.
- External system of evaluation followed for both theory and practical for each course related to the curriculum
- Academic counselling is done every week by assigned students advisors
- Monthly quiz programmes and group discussions are arranged for the students to ascertain their proficiencies and knowledge.
- Students who are academically weak are given special guidance and extra lectures are conducted for improvement.
- Periodic academic progress monitoring is in place by the Dean of the college

Faculty Research

- The faculty are involved in research activities related to production, protection, and improvement of horticultural crops viz. fruits, vegetables, flowers etc.
- Monthly review meeting is conducted by Dean to review the research programs
- The PME cell appraises the research proposals at college levels
- The progress of the research is regularly monitored by the PME cell and Dean of the college
- Review of progress of research work is evaluated by the Dean, Director of Research and the Vice Chancellor, CAU during Research Review Committee meetings.
- Submission of annual report for ongoing projects
 Presently, the faculty of College of Horticulture are conducting research activities on
- Collection, characterization and maintenance of chayote, dale chilli, Indian beans, peas

- Exploration and documentation of underutilized and wild edible vegetables of Sikkim
- Cultivation of gerbera, Marigold and many seasonal flowers
- Developing medicinal and herbal garden
- Studies on insect pest of citrus and other important horticultural crops; bee keeping
- Production of quality planting material of citrus, kiwi and guava.
- 'Collection, conservation and Morpho-phenological Characterization of Citrus Germplasm of North East India' DBT Project
- Different trials under AICRP -PEASEM and AICRP UAE



Fig. 3. Dr A.K. Mishra, Deputy DR, CAU, Imphal and his audit Team in College on 4th July 2022

Extension

- The college teaching staffs regularly participate as resource person/expert in agricultural extension activities of the Directorate of Extension. Agriculture technology dissemination is being done through extension bulletins, pamphlets, radio and TV talks.
- Regular monitoring to assess occurrence of pest and disease of horticultural crops in the state.
- Participations in exhibitions organized by the Government, private and NGOs
- Field visit by team of scientists on need to diagnose problems and provide solutions and recommendations
- Organize entrepreneurship development training programmes for farmers, FPOs
- Awareness and training programmes are organized for farmers and unemployed youths.

- Distribution of agricultural, horticultural inputs and planting materials to progressive farmers.
- Adoption of village as "Model village"
 The faculty of College of Horticulture have organized the following programmes:

Year 2017

- Three days Health Awareness programme was held on 7th April 2017 in association with the Healthy Life and Healthy Food Committee, medical unit and NSS Team
- Organisation of *Swachhata Pakhwada* from 1st to 15thAugust 2017
- Organization of "Swachhata hi Sewa" Campaign on 18th August 2017

Year 2018

- Technology and Machinery Démonstration Mela on 20th February, 2018
- Organized IX National Extension Congress 2018 in association with Society of Extension Education and CAEPHT, Ranipool
- Organized one day training cum awareness programme on Fruit Fly Infestation of Horticultural Crops on 8th October 2018 for Farmers
- Every year College celebrate Soil Health Day by distributing Soil Health Cards to farmers

* Owing to covid only four programmes could be organized.

Year 2019

- Organized one day training programme on Soil fertility management in organic farming on 5th November 2019 for Farmers
- Exhibition/ Krishi Unnati Mela from 18th November 2019 to 21st November 2019
- Organized a one-day training programme on Training and Pruning practices of fruit crops on 7thNovember 2019 for Farmers
- Organized a one day training programme on Beekeeping on 12th December 2019 for Farmers

Year 2020

 Organized a one day training programme on Production technology of Gerbera and Carnation on 1st February 2020 for Farmers

- Organized a one day training programme on Management of important diseases of Horticultural crops on 2nd February 2020 for Farmers
- Organized a one day training programme on Important Insect Pest of Horticultural crops and their management on 28th February 2020 for Farmers
- Organized a one day training programme on Practice of crop regulation in Guava (*Psidium guajava*) on 29th February 2020 for Farmers
- Organized one day training programme on Intellectual Property Rights in plant breeding on 5th March 2020 for Progressive farmers and Rural youths
- Swachhata Abhiyanat CAEPHT Campus on 5th June 2020
- Celebration of "International Yoga Day" on 21st June 2020
- Two days on line skill Development Workshop on "Motivational Talk: Employability and Entrepreneurship Skills" for UG students of CAEPHT and COH, Bermiok under NAHEP-IDP was organized from June 19-20, 2020.
- Organized a Three day National Webinar on Sustaining Organic Farming During and Post COVID-19 during 03rd - 05th August 2020
- Organized one day webinar on "Awareness programme against Drug Problems" on 28th November 2020 for youths
- Organized one day training cum awareness programme on "Infestation of Thrips and leaf minor in Onion" on 7th December 2020 for farmers
- Organized one day training cum awareness programme on "Identification and Management of Red Ants" on 9th December 2020 for farmers

Year 2021

- One day Awareness programme on "Vermi-composting" on 17th April 2021
- Organized Field Day on "Cultivation practices of Large cardamom" on 16th July 2021
- 5 days Training cum demonstration programme on "Production of winter season vegetable crops" for development of model villages under NEH Component from 23rd August 2021 to 27th August, 2021
- 5 days Training programme on "Nursery production and management of horticultural crops" for enhancing farmers income from 20th December 2021 to 24th December, 2021

Year 2022

- 5 days Training programme on "Entrepreneurship and skill development in horticulture sector for empowering the youth and employment generation" from 21st February to 23rd February, 2022.
- 3 days Training programme on "Nutritive value analysis of horticultural crops" from 28th February to 2nd March, 2022
- 3 days Training cum demonstration on seed and planting material production on horticultural crops from 3rd March to 5th March, 2022.
- 3 days Training cum demonstration programme on "Kiwi production technology under demonstration and development of fruit village from 3rd March to 5th March, 2022.
- 5 days Training programme on "Improved Production Technology and Post -Harvest Management of Horticultural Crops" from 7th March to 11th March 2022.
- Celebration of 'World Health Day', 07th April 2022
- Celebration of 'World Book and Copyright Day', 23rd April 2022
- Celebration of 'International Day of Biological Diversity,' 22nd May 2022
- One day virtual training on Menstrual Hygiene for Girl Students was organized by College of Horticulture, Bermiok and College of Agricultural Engineering and Post Harvest Technology, Ranipool jointly on 04th June, 2022.
- Celebration of 'World Environment Day', 05th June, 2022
- Celebration of 'International Day of Yoga', 21st June, 2022
- College celebrated 76th Independence Day as '*Azadi Ka Amrit Mahotshav*' with great enthusiasm and patriotic fervor
- College of Horticulture, Bermiok organized, cultural event to mark the 100t^h years of remembrance of 'Kavi Subramanya Bharthi' on 4th September 2022 in collaboration with Shri Krishna Sweets Chennai, Bharathiya Vidya Bhawan, Chennai Kendra and Tamil Matrimony.
- Celebration of Hindi Pakhwada and Hindi Diwas from 14th September-29th September, 2022
- Celebration of 'World Bamboo Day' on 18th September 2022
- One day Awareness programme on "Sensitization of Mobile based Agro Advisory services in Sikkim and awareness on Prospect of flower production at Sikkim " was conducted at College of Horticulture, CAU, Bermiok, Sikkim on 8th September, 2022

- Celebration of Gandhi Jayanti on 2nd October 2022
- One day Training cum awareness program on Scientific Bee Keeping on 12th October 2022.
- On 11th November 2022, college celebrated National Unity Day
- A cleanliness and plantation drive in the college campus was carried by NSS Unit of college on 12th November 2022
- Celebration of Constitution Day on 26th November 2022
- A state level Citrus show was organized on 29th November 2022
- Celebration of 3rd College week from 3rd December 2022 to 9th December 2022
- Celebration of World Soil Day on 5th December 2022
- Celebration of National Farmers Day on 23rd December 2022



Fig. 4. One day training cum Awareness Program on Red Ants 9th December 2020



Fig. 6. Awareness programme on Conservation and Management of wild Citrus Germplasms 21^{st} to 23^{rd} Nov 2021



Fig. 5. Three days training on seed and planting material production of Horticultural crops on 2nd to 4th February 2022



Fig. 7. Glimpses of five days training programme for line departments from 7th -11th March, 2022



Fig. 8 Celebration of World Environment Day,5th June 2022



Fig. 10. Sensitization of Mobile based Agro Advisory services and on Prospect of flower production at Sikkim, 08-9-2022



Fig. 12. Celebration of 76th Independence Day, 2022 *Tiranga*"



Fig. 9Celebration of International Day of Yoga 21st June, 2022



Fig. 11. One day awareness cum training programme on Scientific Bee Keeping,12-10-22



Fig.13 March for "Har Ghar

Measures taken to improve the quality of education, research and extension

Education

- Industrial and institute related exposure visits related to the courses offered to the students
- Recognition and awards are given to best students at university level
- Educational talks were arranged inviting experts from different fields
- Assignments and exams are conducted on regular basis

Research

- Encouraging students to actively participate in workshops, webinars and conferences
- Experiential learning programme of six different module is conducted for six months

Extension

- Rural Horticultural Work Experience Programme (RHWEP) for students to understand the problems and prospects of the farming community
- Organizing group discussion programmes
- Conducting brain storming sessions for group approach

Impact of monitoring with reference to students' excelling in academics, research and extracurricular activities

Academics

- Higher academic performance of students with improved OGPA
- Improved enrolment of students each year
- Participation and selection for higher education in reputed National Institutes

Research

• Publication of research results in peer reviewed journals by faculty members

Extracurricular

- Participation in NSS programmes at national participate
- Participation in sports and cultural events at state and national levels

Additional information on monitoring mechanism for quality education

- **Monthly meetings:** The Dean conducts monthly meetings with the faculties to evaluate the progress in the field of teaching, research and extension.
- Annual reports: Annual reports are prepared for the college based on teaching, research and extension education activities performed during the year in consideration. The reports are used for measuring the performances of the college during the particular year and serve as guidelines for future action plan
- **Student evaluation:** Students advisory meeting is conducted every week by respective advisors and every month Students Advisory meeting is held along with the Dean of the college. He receives the feedback from the students and gives direction to the faculties. The students are providing the feedback of course teachers who handle the classes during a particular semester in a prescribed proforma. The feedback of the students is analysed and the inadequacies are properly addressed

6.5.1.3. CC/Board of Studies:

Boards of Studies meeting are being conducted where various academic issues are discussed and academic progress monitored.

Composition of the	Date of conduct of	Major recommendations made by
BOS	meetings for last five	the BOS
	years	
 01 Chairperson 	8 th BOS meeting held on	-
 01 Co-chairperson 	04.12.2017at College of	
• Dean's	Horticulture &Forestry,	
representative	Pasighat, Arunachal	
• BOS members	Pradesh	
from different	9 th BOS meeting held on	Formation of Departments for College
constituent	20.04.2018at College of	of Horticulture, Bermiok as follows:
colleges of CAU	Horticulture & Forestry,	• Department of Fruit Science
• Member Secretary	Pasignal, Arunachai Pradesh	• Department of Vegetable Science
and mynee.		• Department of Post- Harvest
		Technology
		• Department of Floriculture &
		Landscape Architecture
		• Department of Plant Protection
		• Department of Natural Resource
		Management
		• Department of Basic Science
		• Department of Social Science
	10 th BOS meeting	• No any Agenda for College of
	on15.05. 2019 at College	Horticulture, Bermiok
	of Horticulture &Forestry,	
	Pasighat, Arunachal	
	Pradesh	
	On 24-04-2020, College	-
	Studies" meeting through	
	video conferencing on line	
	using Google Meet	
	08-11-2021. College	_
	attended "12 th Board of	
	Studies" meeting through	
	video conferencing on line	
	using Google Meet	

6.5.1.4. Anti-Ragging Cell: Yes

Anti-ragging cell is working in the college under the chairmanship of the Dean. The contact information of the committee members is displayed in the campus for easy access of new entrants. Anti-ragging messages and slogans are also displayed in the campus. Besides,

Anti Ragging Squad, Anti ragging Committee and Disciplinary Board has also been constituted. The Vigilance Committee comprising of Dean, Warden's (Boy's Hostel & Girl's Hostel), Female Faculty members and Student Welfare Officer (SWO) is formed every year to inspect and to visit Hostels (both for Girl's & Boy's) at any time after the entry time. Each student is allotted with one adviser to discuss their problems and counselling is being done on weekly basis for all the students by their respective advisers. Meetings & Group discussion is being conducted regarding related Anti Ragging topic on quarterly basis.

Sl. No	Name and Designation		Contact
1	Dr. A.K. Pandey, Dean, College of Horticulture	Chairman	7005913391
2	Dr. Yamuna Pandey, Assistant Professor	Member	8250874097
3	Dr. S. Rajeshkumar Singh, Assistant Professor	Member	8118927724
4	Dr. Sunil Kumar Chongtham, Assistant	Member	8787699093
	Professor		
5	Dr. M. Victoria Devi, Assistant Professor	Member	7085335048
7	Dr. Dipika Sarmah, SWO & Assistant Professor	Member	8617462898
		Secretary	

(A) Anti-Ragging Cell and Disciplinary Committee

(B) Anti-Ragging Squad

Sl. No	Name and Designation		Contact
1	Dr. A.K. Pandey, Dean, College of Horticulture	Chairman	7005913391
2	Dr. Yamuna Pandey, Assistant Professor	Member	8250874097
3	Dr. P. Bhumita, Assistant Professor	Member	8972280430
5	Dr. S. Rajeshkumar Singh, Assistant Professor	Convener	8118927724
7	Dr. Dipika Sarmah, SWO & Assistant Professor	Convener	8617462898

(C) Anti-Ragging Committee

Sl. No	Name and Designation		Contact
1	Dr. A.K. Pandey, Dean, College of Horticulture	Chairman	7005913391
2	Dr. Yamuna Pandey, Assistant Professor	Member	8250874097
3	Dr. P. Bhumita, Assistant Professor	Member	8972280430
4	Dr. S. Rajeshkumar Singh, Assistant Professor	Member	8118927724
5	Dr. Dipika Sarmah, SWO & Assistant Professor	Member	8617462898

6	Mr. Temsuinba T, Student Representative	Member	9932101196
7	Ms. Bompi Kamsi., Student Representative	Member	9774159208
<u></u>	(D) Disciplinary Committee		
Sl. No	Name and Designation		Contact
1	Dr. A.K. Pandey, Dean, College of Horticulture	Chairman	7005913391
2	Dr. Yamuna Pandey, Assistant Professor	Member	8250874097
3	Dr. P. Bhumita, Assistant Professor	Member	8972280430
4	Dr. Sunil Kumar Chongtham, Assistant Professor	Member	8787699093
5	Dr. Diana Sagolsem, Assistant Professor	Member	7908873172
6	Dr. Dipika Sarmah, SWO & Assistant Professor	Convenor	8617462898
7	Dr. S. Rajeshkumar Singh, AR (Acad) & Assistant Professor	Member Secretary	8118927724

6.5.1.5. Biological Waste Disposal Facility: Yes

The college is not dealing with radioactive material, hence not generating any radioactive waste. The college is also not generating any microbiological waste. The biological wastes like crop residues are incorporated in the soil for manuring. The other collected biological waste (weeds etc.) is properly disposed-off by keeping in pits especially prepared for the purpose. The spent mushroom substrate was recycled to the vermi bed. Collection, cleaning and burning of waste products are regularly done. The college is committed to maintain ecological sustainability and strives to establish a clean and green campus. Regular cleaning and planting of tress and other avenue tree is done regularly. Such steps have also improved the floral biodiversity in the campus.

6.5.1.6. Institutional Ethics Committee for Experiment on Animals:

The college is not undertaking experiments on Animals. However, if such experiments are undertaken in future, then the college will strictly adhere to CPCSEA guidelines and will constitute an Institutional Animal Ethics Committee (IAEC).

6.5.1.7. Committee for Prevention of Sexual Harassment of Women at Work Places:

The women cell for prevention of sexual harassment of women has been formed to address all grievances pertaining to sexual harassment of women (students, teaching and non-teaching staff and labours) at the college. Dr. P. Bhumita I/c Women Cell looks after the problems. There was no complaint on sexual harassment in the college during last five years. However, details on sexual harassment of women at work place Act, 2013 and a preamble of the Act and seeking remedy under this Act are clearly explained to the staff and farm workers to avoid such incidence.

An internal complaint Committee is constituted in accordance with the Section 4(1) of the Sexual Harassment of women at Workplace (Prevention, Prohibition and Redressal) Act, 2012. The committee constitute are as follows:

Sl. No	Name and Designation	
1	Dr. Dipika Sarmah, SWO & Assistant Professor	Presiding officer
2	Dr. P. Bhumita, Assistant Professor	Member
4	Dr. S. Rajeshkumar Singh, Assistant Professor	Member
5	Dr. Y. Pandey, Assistant Professor	Member
6	Mrs. Elizabeth K.George, Account Assistant	Member
7	Smt. Hemlata Pant, President, SHG, Arithang, Gangtok	Member

6.5.2. Faculty

The College of Horticulture has a total 31 faculties (11 core faculties and 20 teaching faculties of CAEPHT) in various disciplines to undertake the education, research, and extension activities. All faculties have necessary qualifications and have enriched themselves over the years by undergoing training programmes in teaching, research and education, participation in conference and seminars and handling research projects. Various approaches are followed by the teachers so that students are able to learn and get hand on experience on various aspects of horticulture/agriculture.

6.5.2.1. Faculty Strength:

SI. No.	Sanctioned Faculty	Faculty Place	Vacant Position	Faculty recommended by ICAR/UGC/VCI/Other regulatory bodies
1.	Professor	6*	8	8
2.	Associate Professor	Nil	-	11
3.	Assistant Professor	25**	25	31
	Total	31	33	50

6.5.2.2. Faculty Profile (department wise):

The existing faculty strengths of College of Horticulture, College of Agricultural Engineering and Post-Harvest Technology and MTTC & VTC is sufficient for academic requirement of the college.

Sl. No.	Department	Sanctioned Faculty	Filled Post	Vacant Post	Faculty recommended by the ICAR
1.	Fruit science	Professor	1	1	1
		Associate professor			2
		Assistant professor	1		3
2.	Vegetable science	Professor		1	1
		Associate professor			1
		Assistant professor			4
3.	Floriculture and	Professor	1	1	1
	landscape architecture	Associate professor			1
		Assistant professor	1		2
4.	Post-harvest	Professor	2	1	1
	technology	Associate professor			1
		Assistant professor	1		2
5.	Plant protection	Professor		1	1
		Associate professor			2
		Assistant professor	3		3
6.	Basic science	Professor		1	1
		Associate professor			2
		Assistant professor	4+11		6
7.	Natural resource	Professor	3	1	1
	management	Associate professor			1
		Assistant professor	2		6
8.	Social science	Professor		1	1
		Associate professor			1
		Assistant professor	1		5

Department wise faculty strength

6.5.2.3. Credentials of the Faculty:

All faculty members of the college are Ph. D holders. The college has adequate proportion of experienced and young faculty members. Many faculty members in the college have received awards for their excellence in teaching and research activities. The details of qualification, experience and professional licensure and certification and demonstrated competencies are detailed in Annexure I & II.

	Filled Post	Vacant Post	Staff recommended by
			the ICAR
Technical Assistant	4	4	10
Office Assistant	0	5	5
Lab Technician	13	2	28
Lab Attendant	4	2	14
Total	21	13	57

6.5.2.4. Technical and Supporting Staff:

6.5.3. Learning resources:

Learning resources like books, photos, life specimen and audio-visual aids like power-point presentation, videos are used to assist the students to meet the requirements of learning resources as defined by ICAR in course curriculum.

Faculties are provided with computers coupled with high speed internet facilities to access the online open coursework and online portal to use it for the curriculum delivery. Faculty members access various resources for use in teaching, research and extension activities. Students are also encouraged to access various software applications in agriculture.

6.5.3.1 College Library (digital):

The College of Horticulture is presently utilizing its own library established at Bermiok campus. Apart from these other advance facilities of library is being utilized with the support of CAEPHT, Ranipool, Sikkim



Fig.14. The Library of COH,Bermiok

- 1. Present staff
- 2. Availability of Wi-fi
- 3. Books
- 4. Other reading materials

5. Research Journals

- One Library in Charge
- *Wi-fi* facilities are available in the library
- For College of Horticulture: **2279 books**
- National and local newspaper are subscribed
- Magazines like India Today, Down To Earth, Pratiyogita Darpan, Civil Services Chronicle, Kurukshetra, Yojana, Agriculture Today, Economics and Political weekly, Indian Horticulture, Phal Phool, Kheti etc.
- Students and faculty can access journals through online portal of CeRA, ICAR at CAEPHT Campus. After shifting of the college at Bermiok, the library is in process to avail *CeRA*, ICAR facilities, it will be restored shortly)
- 6. Internet with computers
- 7. Sitting capacity
- 8. Latest technology in library
- 0128 numbers
- KOHA LMS is being used for Library

Automation in CAEPHT Library and is in process to avail in COH Bermiok Campus. Necessary steps have been initiated for accessing online journals and study materials at Electronic Resource Management package for e-journals access through CeRA (Consortia for e-Resources in Agriculture)

- Book stocks arranged as per the DDC22nd
 Edition and Organised.
- 08.00 AM to 08.00 PM
 - Horticulture, Crop Physiology, Plant Biotechnology Genetics Plant and Microbiology, Breeding, Entomology, Agronomy, Plant Pathology, Crop Physiology, Soil Science & Ag. Chemistry, Agroforestry, Ecology, Text book of Advanced Pomology, Plant Biotechnology, Plant Biochemistry, Ag. Economics, Ag. Extension, Statistics, Computer Application & IPR. Floriculture, Pest Botany, management in vegetables, Handbook of Beekeeping etc.

6.5.3.2. Laboratories, Instructional farm, Workshops, Dairy Plant, Veterinary Clinic, Hatchery, Ponds etc.:

The College of Horticulture have a total area of 15.635 ha. The laboratories of all departments are well equipped with all the necessary equipment and facilities to accomplish the academic activities. All basic chemicals and instruments are available for doing practical and research work in all the laboratories. The farm facilities, workshops and other instructional units are well designed to meet the course curricula and research requirements (Fig.15,16,17,18,19,20). Out of total 15.635 ha land, an area of 13 hectares land is available for experimental purposes at Bermiok, Campus.

- 9. Stocking arrangement
 - 10. Operating hours
 - 11. Books available in COH



Fig.15. High Tech Poly House at COH, Bermiok



Fig.16. Students preparing land at COH, Bermiok Farm



Fig. 17.Students during Practical class in Basic Science Laboratoryof CAEPHT





Fig.18.Students duringEntomology practical class



Fig. 19. Installation of Solar Trap in Sweet Fig.20.Sweet Orange orchard at, COH, Bermiok orange orchard

Farm Facilities

- Availability of Farm equipment viz. Brush cutter, Soil Auger, Power tiller and other tilling implements.
- All the essential garden tools viz. Hedge shear, Pruning Secateurs, digging trowel, water • cane, Pruning and budding knife, khurpi, spade, garden rake, measuring tape and Hand sprayers etc. are available for maintaining the farm
- The Low-cost polyhouses and Hi-Tech Greenhouse have been established in the farm for growing various seasonal and annual vegetables, flowers and succulent plants.

- Availability of water supply to the farm through drip and sprinkler mode.
- Development of demonstration farm cum research block for vegetable, spice crops and flower where the practical work can be done smoothly.
- Development of Orchard for demonstration of practical classes for fruit crops.

6.5.3.3. Student READY/ In-Plant Training / Internship / Experiential Learning Programmes:

Student READY Experiential Learning (Professional Package) will be for the duration of 20 weeks and Student READY Programme will be taken up during semesters VII and VIII. All the guidelines given by ICAR for Student READY Experiential Learning is strictly followed by the college (Fig. 21, 22, 23, 24, 25, 26)

Student READY was first implemented in the year 2018-19. The Rural Horticulture Work Experience Programme (RHWEP), Industrial Attachment (IA) and Experiential Learning Programme (ELP) are under the Students READY Programme for B.Sc. (Hons.) Horticulture. Through this programme, students are given hands on experience and practical training in horticulture and allied areas. The programme helps to develop confidence, skills and to acquire knowledge of horticultural systems.

RHWEP is organized for every year for the undergraduate students of College of Horticulture in the 4th Year, 1st semester of every academic session with a credit load of0+10. It provides opportunities to the students to study the rural agricultural system through direct farm experiences by personally visiting the farms and interacting with the farmers. The students also gain experience and knowledge about the extension activities carried out by the Govt. and Private Agencies and Non-Governmental Organizations (NGOs). The students undergoing the programme are expected to learn different components of agriculture and allied activities, conduct method demonstration and training, organize exhibition and prepare reports on their experiences gained. The students are expected to learn day to day farming activities of farmers and general village conditions during their stay at the villages.



Fig.21. Students during 2018 RHWE Program



Fig.22. Students during 2019 RHWE Program



Fig.23. Students during Industrial Attachment Program (2019)



Fig.24. Students during ELP Program 2020





Fig.25. Students during 2021 (During Covid Period) Student READY Programme



Fig.26. Students during 2022 RHWE Program

The IA programme (credit load of 0+10) provides hands on training to students about the managerial and commercial aspects of Horticultural products. The students are placed in Agro food industries, food processing unit, fertilizer industries, bio-fertilizer production units, vermin composting units, etc. This helps the students in gaining practical knowledge and experience first-hand in industry.

DETAIL WORK OUT PLAN FOR STUDENT READY

Semester-VII

S.N.	Course Title	Credit Hours	
1	STUDENT READY- Placement in Industries	0+10	
2	STUDENT READY- Horticultural Work Experience	0+10	
	Total	20(0+20)	
S.N	Student READY Programme Schedule	Duration	
1	. Orientation programme	2 weeks	
2	2. Industrial placement	4 weeks	
	. Village stay-Horticultural work experience	12 weeks	
2	. Report writing & Final Examination	3 weeks	
-	5. All India Study Tour	3 weeks	
		24 weeks	

• Study tour will be conducted during semester break

Semester-VIII

Experiential Learning

S.N.	Course Title	Credit Hours
1	Experiential Learning programme	20(0+20)

Programme: A student has to register 20 credits opting for two modules of (0+10) credits each (total 20 credits) from the package of modules in the VIII semester

Sl. No.	Title of the module	Credits
1.	Commercial Horticulture	0+10
2.	Protected Cultivation of High Value Horticulture Crops	0+10
3.	Processing of Fruits and Vegetables for Value Addition	0+10
4.	Floriculture and landscape Architecture	0+10
5.	Bio-inputs: Bio-fertilizers and bio-pesticides	0+10
6.	Mass Multiplication of Plant and Molecules through Tissue Culture	0+10
7.	Mushroom Culture	0+10
8.	Bee keeping	0+10

6.5.3.4. Curricula Delivery through IT (smart class rooms/interactive board etc.):

One Smart class room is established in campus. The smart class rooms are provided with LCD projectors and audio-visual aids for better delivery of lectures. A table, whiteboards/screen, black board with duster are available in each class room for the use of teachers. A common generator facility is made available to power all the classrooms to avoid interruption of the class during instance of power failure.

6.5.4. Student Development:

6.5.4.1. Student Intake and Attrition:

The College presently offers only Under Graduate Programme in Horticulture *i.e.* B.Sc. (Hons.) Horticulture which is of 4 years duration. The annual intake of students to the college at UG level has increased since the inception of the university.

Name of the Degree Programme	Act	tual stud five yea	lent adr ars Attri	nitted in ition (%	n last)		2	Attritio	on (%)	
B.Sc. (Hons.)	Y1	Y2	Y3	Y4	Y5	Y1	Y2	Y3	Y4	Y5
Horticulture	15	20	19	16	19	0.25	1	0.05	0.27	0.13

|--|

Year	B.Sc. (Hons) Horticulture						
	Batch of students in theory class	Batch of students in practical class					
2015-16	1 (15 students)	1 (15 students)					
2016-17	1 (20 students)	1 (20 students)					
2017-18	1 (19 students)	1 (19 students)					
2018-19	1 (16 students)	1 (16 students)					
2019-20	1 (19 students)	1 (19 students)					
2020-21	1 (20 students)	1 (20 students)					
2021-22	1 (23 students)	1 (23 students)					

6.5.4.3. Admission Process:

Admission Requirement

- The candidates should have passed 10+2 examination with English as one of the subjects of study. The candidates must have attained 17 years of age on 31st December in year of admission. The selection or nomination of candidates is done through National Eligibility cum Entrance Test (NEET) conducted by the National Testing Agency (NTA) or through state common entrance exam. Students seeking admission to the above degree programme shall be permanent resident or domicile of any one of the North Eastern States of India *i.e.*, Arunachal Pradesh, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim and Tripura. The number of students to be admitted for each of the north eastern states is notified by CAU from time to time.
- The candidates to be sponsored for admission shall be from the merit list based on the entrance test.
- 15% of the approved number of seats in the UG programme shall be filled by the candidates selected on the basis of All India Entrance Test conducted by ICAR or as amended from time to time by ICAR. The ICAR nominees shall be governed by the eligibility as prescribed by ICAR.



Fig. 27 State wise allotment of seats for admission at COH, Bermiok

Date of Admission

• The date of admission to a bachelor's degree programme shall be as per the announcement made in the prospectus or academic calendar or semester calendar which is duly notified by the Registrar, CAU

Registration Process

- On admission, students are enrolled through Academic Management System (Online), each student are assign with registration ID and Password.
- On admission and registration, the students are provided with college identity cards with his/her photograph. The identity card is returned to the college by the students when the students leave the college after completion or discontinuation of the course.
- Newly admitted students are given an admission number by the Dean of the College. This admission number is valid till individual registration number is allotted by the Registrar, CAU to the students.
- An orientation programme is organized by the Dean of the college for the benefit of the newly admitted students immediately at the beginning of the first semester

6.5.4.4. Conduct of Practical and Hands on Training:

The practical classes are being conducted for minimum of two hours for each subject. Practical classes are conducted in Central/ Departmental Laboratories. Field/ orchard visit for identification and practical of horticultural crops are done at the orchard, vegetable, and floriculture block. As needed the students are taken to nearby institutes like ICAR-National Research Centre-Orchids, Pakyong, Sikkim, Model Floriculture, Govt. Of Sikkim, Temi Tea Garden and ICAR-NOFRI, Tadong, Sikkim for acquiring the requisite practical knowledge.

6.5.4.5. Examination and Evaluation Process:

The college strictly adheres to the examination and evaluation system as recommended by the Vth Deans' Committee. As such, the college follows Uniform grading system with uniform OGPA requirements for award of degrees at all levels. A uniform conversion formula is followed for declaration of Ist, IInd and IIIrd divisions, distinctions etc.

Examination

Semester system is being followed for UG programmes and evaluation is given weightage as 50% internal and 50% external.

Courses with Theory and Practical

• Mid-term Exam (30%) + Assignment (5%) in practical oriented courses + Practical (15%)

Courses with only Theory

• Mid-term Exam (40%) + Assignment (10%)

Courses with only Practical

• 100% Internal

Keeping this in view, the schedule and weightage to different examination are as follows:

Particulars	Course credits									
	2-	+1	1+1/	/2+2	1-	+2	1+0/	/2+0	0+1	/0+2
	Т	Р	Т	Р	Т	Р	Т	Р	Т	Р
Mid-term exam	30	-	30	-	30	-	30	-		
Quiz/Continuous evaluation	20	30	20	30	20	30	20	-	-	30
End-term exam	50	70	50	70	50	70	50	-	-	70
Maximum marks	100	100	100	100	100	100	100	100	-	100

* At least 4 number of quizzes are conducted for each course

Evaluation

• The evaluation of students' performance is achieved by conducting Quizzes of 20 marks (Internal), Mid-Term Examination of 30 marks (Internal) and End-Term Examination (External) of 50 marks. The practical examination consists of 100 marks.

• The questions and answer scripts for quiz and Mid-term examinations are set and evaluated by concerned course teacher.

• The questions and answer scripts for End-term examinations are set and evaluated by external examiners selected duly from a list of panel members by the competent authority.

Degree	Percentage of Marks Obtained	Conversion into Points
B.Sc. (Hons.)	100	10 Points
Horticulture	90 to <100	9 to <10
	80 to <90	8 to <9
	70 to <80	7 to <8
	60 to <70	6 to <7
	50 to <60	5 to <6
	<50 (Fail)	<5
	Example 80.76	8.076
	43.60	4.360
	72.50 (but shortage in attendance)	Fail (1 point)

The following ranking pattern is adopted to award the degrees:				
OGPA	Division			
5.000-5.999	Pass			
6.000-6.999	II division			
7.000-7.999	I division			
8.000 and above	I division with distinction			

6.5.4.6. NCC/NSS/RVC Units:

NSS unit in the college is operational since 2015 under the guidance of Student Welfare Officer. The unit is doing various activities like cleaning and sanitation of the college laboratories, campus and classroom from time to time. Planting of trees, hedges and other ornamental crops is also undertaken as part of the programme. Demonstration from the fire safety regulators and giving first aids in case of any calamities are being held for the students.

6.5.4.7. Language Laboratory:

The language classes are taken by Dr. Dhananjoy Roy, Assistant Professor English of CAEPHT. The language laboratory of College of Agricultural Engineering and Post-Harvest Technology, Ranipool campus is accessible to the students of College of Horticulture. Two days on line skill Development Workshop on "Motivational Talk: Employability and Entrepreneurship Skills" for UG students of CAEPHT and COH Bermiok under NAHEP-IDP was organized on June 19-20, 2020

6.5.4.8. Cultural Centre:

The college has a Student Activity Centre which is exclusively empowered to explore and equip the students for multi-varied cultural activities. The Cultural Committee is formed comprising of faculties, staff and students along with the Student Welfare Officer of the College. Different types of clubs' function under the Committee such as the Music, Theatre, Literary and Fine Arts.

6.5.4.9. Personality Development:

Besides the four compulsory courses under the 5thDean's Committee syllabus, the College of Horticulture invites renowned achievers from the different places to interact with students for motivational talk and experience sharing, which cater to the overall personality development of the students

6.5.5. Physical facilities:

6.5.5.1. Hostels, Academic Buildings, Administrative Buildings, Transit Guest House

The construction work of College of Horticulture *viz.*, Academic block, Administrative block, separate hostels for boys and girls (transit hostel) *etc.* have been completed, soon after inauguration these buildings will be occupied. Meanwhile all the activities are being conducted in well-established prefabricated buildings (Fig. 28, 29, 30, 31, 32, 33, 34, 35).

Particulars	Plinth Area (Sq. m)	Number of rooms	Remarks
Boys Hostel	1988	21	Will be shifted after inauguration
Girls Hostel	2146	21	Will be shifted after inauguration

At present Girls & Boys Hostel is staying at Prefabricated Buildings having 12 rooms each having an area of 20 feet by 17 feet in each room.

Presently, academic building cum administrative building is functional in the Prefabricated building of the campus having one multipurpose hall and 12 rooms in the building.

Basic medical facilities are available in the college such as antibiotics, anti-diarrheal, first aids etc. are available. First aid kits have been issued to all hostels. Time to time health awareness campaigns are organized by the NSS units. Medical experts are invited to deliver special lectures on self-hygiene, tobacco and its toxicity, drug abuse, nutritious foods for healthy living etc.

		ACADEMIC BUILDING				
SL NO	FLOOR	ROOM TYPES	ROOM DIMENSION(in mm)			
		Main lobby	6600 x 10075			
		Room	3800 x 4150			
		Discussion Room-01	3900 x 8150			
		Laboratory-01	8150 x 12150			
		Technician Room-01	3800 x 1975			
		Store Room01	3800 x 2075			
	Cround Floor	PROF .01	4150X4150			
	1 st Floor 2 nd	ASSO.PROF .01	6075X4150			
	Floor & 3 rd (RW)	ASST PROF .01	6075X4150			
	× /	STORE .02	4150X1725			
		Discussion Room-02	7800 x 4250			
		Laboratory-02	8150 12050			
		Technician Room-02	3800 x 1975			
		Store Room03	3800 x 1725			
		PANTRY	4150X1945			
		Panel Room	1890 x 3930			
		ASSO PROF .02	4150X6075			
		ASST.PROF .02	7900X4150			
		STORE .04	4150X1725			
1		Classroom-01	11975 x 7950			
		Classroom-02	11975 x 7950			
		Toilet (L)/Toilet Block-3	4150 x 3900			
		W.C (2 No's)	1300x1100			
		JC	1300 X 1750			
	Ground Floor	Toilet(H)	2050 x 2380			
		Toilet (G)/Toilet Block-4	2500 x 4150			
		Toilet Block-1	1700 x 1520			
		Toilet(H)	2000 x 2015			
		Toilet (G)	2075 x 2905			
		Toilet (L)	2600 x 2035			
		W.C(01 No.)	2075 x 1145			
		Toilet Block-2	1700 x 1520			
		Toilet(H)	2000 x 2015			
		Toilet (G)	2075 x 2905			
		Toilet (I.)	2600 x 2035			
		$W C(01 N_0)$	2075 x 1145			
		LIFT	2013 A 1173			
2		(Capacity:10 Person/680Kg.)	2000 x 2000			

Details of academic Buildings:



Fig. 28. Academic Building



Fig. 29. Administrative Building



Fig. 30. Girls Hostel



Fig. 32. Transit Hostel



Fig. 31. Boys Hostel



Fig. 33. Prefabricated Girls Hostel



Fig. 34. Prefabricated Boys Hostel



Fig 35. Prefab Admin/Acad. Building

6.5.5.2. Examination hall:

Currently the college utilizes multipurpose hall of academic building in the prefabricated building whereas capacity of examination halls in the new Academic building is mention as under:

No. of classrooms	•	1		
Capacity	:	Varied capacity ranging from 60 sitting		
		capacity		
Facilities available	:	Chairs, writing desks, electrical fans and lights		
Amenities	•	Washroom, wash basin and running water		

6.5.5.3. Sports and Recreation Facilities:

The students are provided with all types of physical exercises during the classes and in physical experience class to keep them physically fit and healthy. In addition, the skill development in any one of the games such as badminton, volleyball, football, cricket, table tennis and athletics is contemplated in the physical education programme. Maintenance and cleaning of the ground are regularly done for use by the students. Matches are conducted for the students during the annual sports day and inter-college meets or any other specific days such as the Foundation Day, Republic Day etc. to improve and maintain their skills using ground facilities. Indoor games such as carom, chess, badminton and table tennis are also available.
6.5.5.4. Auditorium:

The auditorium under College of Horticulture has 100 seating capacity. And a multipurpose hall in prefabricated building is also used.

Does the college have auditorium

Year of construction and sitting capacity How frequently the auditorium is used and purpose for being use

Yes

2022; 100 number sitting capacity

- College Day (Once a year)
- Republic Day (Once a year)
- Foundation Day (Once a year)
- Independence Day (Once a year)
- Inauguration programmes (Numerous times a year)
- National and International workshops (Numerous times a year)
- Invited Lectures (Numerous times a year)
- Teachers Day
- Fresher's Day

6.5.5.5. Exhibition Hall/Museum:

Agricultural Technology Information Centre (ATIC) is functional at the site of the college. The centre is accessible to all the visiting officers, farmers and students. Sixteen leaflets and nine flexes were put on displayed containing information regarding the organic practices of various horticultural crops *viz.*, Sikkim mandarin, large cardamom, anthurium, tomato etc. Models of protected cultivation, different garden types prepared by the students were also displayed. Specimens of insects were also collected and displayed.

6.5.6. Research Facilities

6.5.6.1. Postgraduate Laboratories and Equipment:

Currently college is offering only Under Graduate Programme. List of equipment available in college are as follows:

Sl. No.	NAME	QUANTITY
1.	Analytical Weighing Balance	02

2.	Weighing balance	01
3.	Electrical Conductivity meter	02
4.	Rotary Shaker	01
5.	Water Bath	01
6.	Automatic Nitrogen Digestion & Distillation System	01
7.	Compound Microscope	04
8.	Trinocular Microscope	01
9.	Flame Photometer	01
10.	Leaf Area Meter	01
11.	Horizontal Laminar Air Flow	01
12.	pH Meter	02
13.	Magnetic Stirrer	02
14.	Centrifuge	01
15.	Double Distillation Unit	01
16.	BOD Incubator	01
17.	UV-VIS Spectrophotometer	01
18.	Magnus Monocular Microscope	04
19.	Dissecting Microscope	01
20.	Olympus Trinocular Microscope	01
21.	Hot Plate	01
22.	Soil-Tensiometer (Irrometer)	07
23.	GPS	01
24.	Digital refractometer	01
25.	Laminar Air Flow	01
26.	Gel doc	01

Apart from these instruments food processing technology laboratories, farm power machineries, soil and water conservation laboratories, AICRP PESAM and AICRP UAE facilities are utilized by the students.

6.5.6.2. Research Contingency

There is no specific head of Research contingency or no fund is provided as such for research contingency. The research activities of students under BSc are funded from Recurring Contingency of College Fund. Adequate funds are available for meeting the recurring expenses incurred during the education programme.

6.5.7. Outcome/Output

The College of Horticulture takes paramount interest in the performance of its students in the field of studies, sports, other extracurricular activities, employment and career growth. Alumni of the College & University are regularly consulted to get feedbacks on employment, performance in competitive exams, job selection process etc.

	Invited lectures for 2022							
S.N.	Name	Торіс	Date					
1	Dr. S.K. Malik Principal Scientist ICAR-NBPGR, New Delhi	Need and Importance on conservation of eroding landraces, wild species and other potential genetic resources of North East India.	17/10/2022					
2	Sh. Manish Kumar Verma (IPS) SP, South Sikkim.	Motivational talk and Preparation for competitive exams.	09/12/2022					
3	Dr. Alka Parikh Dean, School of Liberal Arts, Bennett University	"Importance of Organic Agriculture"	07/11/2022					
4	Dr. Rajesh Kr. Pandey Assist. Professor (Botany) BundelKhand University, Jhansi	Integrated Disease Management of Horticultural Crops	26/12/2022					

Lecture Series organised by college:

6.5.7.1. Student Performance in National Examinations:

List of ICAR – JRF Holders, 2019

Sl. No.	Name of the student	Discipline	ICAR- JRF	Seat Allotted
			RANK	
1.	Ms. L. Mashine	Horticulture	UPS-9, ST-24	MPKV, Rahuri Horticulture

List of ICAR – JRF Holders, 2020

Sl. No.	Name of the student	Discipline	ICAR- JRF	Seat Allotted
			RANK	
1.	Mr. Brendon Lalchawimia	Physical Science	ST-5	IARI, New Delhi Agricultural Chemicals

2.	Ms. Rajshree Chand	Plant	A ID 52	PAU, Ludhiana
		Biotechnology	AIK-33	Plant Biotechnology
3.	Ms. Tingku Soram			Dr. RPCAU, Pusa
		Plant Science	UPS-6	Plant Breeding &
				Genetics
4.	Ms. Daffylabeth L.	Houtionland	UPS – 8, ST-	PAU, Ludhiana
	Chyne	Horticulture	18	Olericulture
5.	Ms. Losa Lajeo	Hortigultura	ST 27 LIDS 14	VNMKV, Prabhani
		nonculture	51-27, UPS-14	Olericulture

List of ICAR – JRF Holders, 2021

Sl. No.	Name of the student	Discipline	ICAR- JRF	Seat Allotted
			RANK	
1.	Ms. Juliana	Msc in		
	Lalrintluangi	Floriculture &	UPS rank -06	IGKV, Raipur
		Landscaping		

List of ICAR – JRF Holders, 2022

Sl.	Name of the	Discipline	ICAR- JRF RANK	Seat Allotted	
No.	student				
1.	Ms. Aanamika Rai	Horticulture	AIR-21, UPS 1	Waiting for seat	
2.	Ms. Iutran passah	Horticulture	AIR174, ST-6, UPS 2	Waiting for seat	
3.	Ms. K.P.Asinlu	Horticulture	AIR240, ST-8, UPS 3	Waiting for seat	
4.	Ms. Nena Taku	Horticulture	AIR246, ST-9, UPS 4	Waiting for seat	

Note: Another Ten students clear JRF and waiting for seat allotment

6.5.7.2 Students Placement Profile:

Most of the students graduating from College of Horticulture are placed in academics/research institution for pursuing higher education in India and abroad. One Student qualified CAT Exam 2019 and got Admission in IRMA, Anand, Gujarat.

Student Achievement (2021-22)

1. Mr. Naylen Hakom – Post of APCS (Entry grade) (group A) under the govt. of Arunachal Pradesh

- 2. Ms. Rusheem Florence M.Sc. In Horticulture, North Eastern Hill University, Shillong
- 3. Mr. Sengku Marak- M.Sc. in Horticulture, North Eastern Hill University, Shillong
- 4. Ms. Ranisha Basnett- M.Sc. in Soil Science, YS Parmer University, Solan, HP
- 5. Mr. Khruzho Sakamo M.Sc. in Vegetable Science, College of Horticulture & Forestry, Pasighat, Arunachal Pradesh
- 6. Mr. Prayash Rai M.Sc. in Horticulture, Sikkim University, Sikkim
- 7. Mr. Alokesh G. -M.Sc. Horticulture, MZU, Mizoram

6.5.7.3. Awards/Recognitions/Certificates: Annexure II

6.5.7.4. Employability:

The students are acquainted with hands on practical for processing and value addition of horticultural crops. Interactive sessions with entrepreneurs of the region are being held time to time. This allows the students to start up an enterprise at their own level.

The students are also furnished with knowledge both in theory and practical in production technology and various practices of horticultural crops.

One alumni of the college Mr. Jesonkere Sutnga of Meghalaya have started broom grass farm since 2019, he has got a good return and continuing the business. Besides these he has also completed his Masters from SASARD, Nagaland University.

6.5.8. SSR of the College must have the SSR of all its Degree Programmes (following section 6.4), then the report of the Colleges shall be considered.

6.5.9. Certificate (Applicable when SSR is submitted for Programmes & College).

I, Dr. A. K. Pandey, Dean, College of Horticulture, Central Agricultural University, Bermiok, South Sikkim-737134 hereby certify that the information contained in Sections 6.4 and Section 6.5.1 to 6.5.7.4 are furnished as per the records available in the College and degree awarding university.

lege of Horticulture Bermiok, Sikkim-737134

Signature of the Dean of the college with Date & Seal

ANNEXURE I

6.5.2.3. Credentials of the faculty:

COLLEGE OF HORTICULTURE (CAU- I), BERMIOK, SIKKIM

SI. No.	Name and designation	Post held	Highest qualification and Department	Teaching/work experience (in years)	Honours and Awards	No. of Students Guided (PG / Ph. D separately)	No. of publications in NAAS rated Journals
1.	Dr. A. K. Pandey	Dean	Ph. D in Vegetable Science	36 years 2 months (More than 10 years as DEAN under Central Agricultural University)	13	PG: 12 Ph. D: 5	78

FACUI	FACULTIES OF COLLEGE OF HORTICULTURE							
Sl.	Name of the faculty	Post held	Highest	Teaching/ work	Honors	No. of Students	No. of publications	
No.			qualification	experience (in	& Awards	Guided	in NAAS rated	
				years)		(PG / Ph.D	Journals	
						separately)		
1.	Dr. S. Rajesh Kumar Singh	Assistant Professor,	Ph. D.	6 years 4 months	00	00	09	
		Genetics and Plant						
		Breeding, COH,						
		Bermiok						
2.	Dr. Bhumita P.	Assistant Professor,	Ph. D.	6 years 4 months	02	00	07	
		Agril. Entomology,						
		COH, Bermiok						
3.	Dr. Diganggana T.	Assistant Professor,	Ph. D.	6 years	03	00	19	
		Plant Pathology,						
		COH, Bermiok						
4.	Dr. Dipika Sarmah	Assistant Professor,	Ph. D.	6 years 11 months	01	00	08	
		Floriculture and						

		Landscape, COH, Bermiok					
5.	Dr. Yamuna Pandey	Assistant Professor, Fruit Science, COH, Bermiok	Ph. D.	5 years 8 months	00	00	19
6.	Dr. Haobijam Sanjita Devi	Assistant professor, Agril. Biochemistry, COH, Bermiok	Ph. D.	3 years	00	00	09
7.	Dr. Diana Sagolsem	Assistant Professor, Genetics and Plant Breeding, MTTC& VTC, COH, Bermiok	Ph. D.	6 years 4 months	01	00	08
8.	Dr. Yumlembam Rupert Anand	Assistant Professor, Plant Pathology, MTTC& VTC, COH, Bermiok	Ph. D.	3 years	01	00	22
9.	Dr. Sunil Kumar Chongtham	Assistant Professor, Agronomy, MTTC & VTC, COH, Bermiok	Ph. D.	8 years	01	00	30
10.	Dr. Vinodh S	Assistant Professor, Floriculture, MTTC& VTC, COH, Bermiok	Ph. D.	6 years 11 months	05	00	04
11.	Dr. M. Victoria Devi	Assistant Professor, Ag. Extension, MTTC & VTC, COH, Bermiok	Ph. D.	2 years 6 months	05	00	11
12.	Dr. B. C. Kusre	Professor, CAEPHT, Ranipool	Ph. D in Irrigation and Drainage Engineering	20 years	00	00	15
13.	Dr. Dhananjoy Roy	Assistant Professor, CAEPHT, Ranipool	Ph. D in English	16	02	00	05
14.	Dr A. B. Sherpa,	Assistant Professor (Sr. Scale) of	Ph. D. in Agronomy	13 Years in Permanent	00	00	05

		Agronomy, CAEPHT, Ranipool		position			
15.	Dr. Chakpram Birendrajit	Assistant Professor (Soil Science) CAEPHT, Ranipool	Ph.D. (Soil Science) and Basic Engineering & Applied Science	Soil Fertility Management and Plant Nutrition; Biofortification of rice with zinc and iron	01	00	02
16.	Dr. Abujam Anuradha Devi	Assistant Professor (ABM) CAEPHT, Ranipool	Ph.D. (Agril. Economics)	7 years 1 month	01	00	10
17.	Er. Rajiv Pradhan	Assistant Professor (Electronics Engineering & Instrumentation) CAEPHT, Ranipool	M.Tech, Basic Engg. & Applied Sciences (BEAS)	4 years 8 months	00	00	00
18.	Smt.T. Loidang Chanu,	Assistant Professor ,Statistics, CAEPHT, Ranipool	M.Phil/BEAS Dept.	7years 6 months	01	00	2
19.	Dr. NS Chauhan	Professor, Department of Farm Machinery and Power Engineering CAEPHT, Ranipool	Ph.D in Farm Power and Machinery	19 years	01	PG: 02	3
20.	Dr. Said P. P.	Assistant Professor, CAEPHT, Ranipool	Ph. D. Department of Processing and Food Engineering	04 years	02	PG: 01	30
21.	Dr. R.P. Misra	Professor, CAEPHT, Ranipool	Ph.D. (Engineering)	44 years	05	PG: 02	60
22.	Dr. Deepak Jhajharia,	Professor, CAEPHT, Ranipool	Ph.D.	19 years	06	PG-12 PhD- 01	71

23.	Dr. Shivam Gupta	Assistant Professor,	Ph.D.	3.5 years	00	00	08
		CAEPHT, Ranipool	Irrigation and				
			Drainage				
			Engineering				
24.	Dr. Sujata Jena	Professor,	Ph. D.,	10 years	01	PG-04	10
		CAEPHT, Ranipool	Processing			PhD-01	
			and Food				
			Engineering				
25.	Dr. S. K. Meher	Assistant Professor,	Ph. D in	13 years	00	00	17
		CAEPHT, Ranipool	Mathematics				
26.	Er. S.K. Chauhan	Assistant Professor,	M. Tech in	10 years	00	00	13
		CAEPHT, Ranipool	Farm Power				
			and				
			Machinery				
27.	Mr. S. M. Kamrauzzaman	Assistant Professor,	M. Tech.	16 years	00	00	00
		CAEPHT, Ranipool	(Energy				
			Science &				
			Technology)				
28.	Dr. Manish Gurung	Horticulturist,	M. Sc. Fruit	05 years	00	00	04
		CAEPHT, Ranipool	Science				
29	Dr. Sushma Gurumayum	Assistant Professor,	Ph. D in	11 years	00	00	20
<u> </u>		CAEPHT, Ranipool	Microbiology				
30	Dr. Baleshor Sharma	Assistant Professor,	Ph. D in	3.5 years	01	00	03
		CAEPHT, Ranipool	Biochemistry				

College of Horticulture, Bermiok, Sikkim

Sl. No.	Name and designation	Highest qualification and Department	Year	Related work experience in the field	Award/ recognition/certificate	Experience in other areas
1.	Dr. Diggangana Talukdar	Ph.D (Agri) Plant Pathology	2015	Pathogenic variability and epidemiology of Alternaria	• Merit award on poster presentation – 2013	• Mycology, Molecular plant

	Assistant Professor			blight of Mustard	Rapeseed	and	 Second prize in oral presentation – 2014 Best poster award- 2016 Nominated for Prof. M.J. NarasimhanMerit Academic Award- 2016 Young Scientist award ICFA – 2018 Young Scientist Awardn NEE congress - 2018 	 pathology, epidiomology SRF in DBT (extramural project) for 1 year 1 month
2.	Dr. Dipika Sarmah Assistant Professor	Ph.D (Hort) Floriculture & Landscaping	2016	In-vitro Phalenopsis	cloning	of	 Assam Agricultural University under- graduate merit scholarship (2006- 2010) Assam Agricultural University Post–graduate merit scholarship (2010- 2012) Second prize poster presentation – 2013 Young women scientist award in International conference on new paradigms for agriculture, food and sustainability concern - 2021 	 Production technology of flowers, Plant tissue culture

3.	Dr. Pukhram Bhumita Assistant Professor	Ph.D (Agri) Entomology	2016	Bio-ecology of Erythrina gall wasp (EGW), <i>Quadrastichus</i> <i>erythrinae</i> Kim. (Hymenoptera: Eulophidae), a new aggressive and invasive gall inducing pest in India".	 Central Agricultural University merit Scholarship (2008 -10) BCKV, University Research Fellowship (2011- 2014) Second prize in shashya suraksha yuva pratibha award- 2016 Eminent scientist award-2018 Young entomologist award-2020 Third Prize in Oral presentation- 2020 Women Researcher Award 2020 during International Scientist Awards 2020 	Economic Entomology, Taxonomy,
4.	Dr. Yamuna Pandey Assistant Professor	Ph.D (Hort) Fruit Science	2019	Nutraceuticals Potential of Underutilized Fruits of Sikkim	-	 Production technology and Breeding RA in National Horticulture Mission Project for 11 months JRF in BARC

						 project on Irradiation Technology for 6 months Technical Officer in ICAR- GKMS Project for 3 months
5.	Dr. Sapam Rajesh Kumar Singh Assistant Professor	Ph.D (Agri) Plant Breeding and genetics	2018	Evaluation of Lentil (Lens culinaris L) germplasm under low input acidic soil conditions of North east India	 ICAR-NTS scholarship- 2006 Jawaharlal Nehru Memorial Fund scholarship for Doctoral studies-2016 	Biotechnology, Agricultural statistics, plant tissue culture, plant physiology
6.	Dr. Haobijam Sanjita Devi Assistant Professor	Ph. D. (Biochemistry)	2019	Chronobiological study	• CSIR-UGC-JRF Fellowship	Circadian rhythm and melatonin, Molecular biology, Project Assistant at IISc Bangalore for 9 months

Experience in teaching/research/extension

Teaching

Sl.No.	Name and designation	Institution	Details (UG/PG)	Duration	Total experience
1.	Dr. Diggangana Talukdar	College of Horticulture	Taking all the UG courses of plant pathology and environmental science course of COH, Bermiok and	18.08.2016 to till date	4 years 4 months

	Assistant Professor	(CAU-I), Bermiok, Sikkim	general microbiology, food microbiology, industrial microbiology and food safety courses of CAEPHT, Ranipool		
2.	Dr. Dipika Sarmah Assistant Professor	School of Agriculture, Centurion University of Technology and Mangaement, Odisha	Took UG courses of both the subject of Floriculture and Fruit science	28.12.2015- 31.8. 2017	1 year 8 months
		College of Horticulture (CAU-I), Bermiok, Sikkim	Taking all the UG courses of Floriculture and Landscaping department	04.09.2017 to till date	5 years 3 months
3.	Dr. Pukhram Bhumita Assistant Professor	College of Horticulture (CAU-I), Bermiok, Sikkim	 Taking all the UG courses of Entomology, environmental science, organic farming of COH, Bermiok Horticulture and plant protection of Agri-Engineering course and environmental science of Food technology course 	11.08.2016 to till date	4 years 4 months
4.	Dr. Yamuna Pandey Assistant Pro fessor	Sikkim University Department of Horticulture	Took UG courses of agronomy and soil science	03.08.2015- 16.12.2015	5 months
		College of Horticulture (CAU-I), Thenzawl, Mizoram	Took all UG courses of fruit science and spice and condiment course	18.09.2017- 20.12.2019	2 years 3 months

		College of Horticulture (CAU-I), Bermiok, Sikkim	Taking all UG courses of fruit science i.e. FSC-111, FSC-121, FSC-212, FSC-211, FSC-221, FSC-223, FSC-311.	23.12.2019 to till date	3 years
5.	Dr. Sapam Rajesh Kumar Singh Assistant Professor	CollegeofHorticulture(CAU-I),Thenzawl,Hizoram	BSH-115, BSH-123, BSH-211, FSC-222, VSC-311, VSC-321 & FLS-322	30.08.2016- 22.12.2019	3 years 4 months
		College of Horticulture (CAU-I), Bermiok, Sikkim	Taking all UG courses of Breeding and Genetics	23.12. 2019 to till date	3 years
6.	Dr. Haobijam Sanjita Devi Assistant Professor	College of Horticulture (CAU-I), Bermiok, Sikkim	Taking all the UG courses of biochemistry and physiology	30.12.2019 to till date	1 year

Research

Sl. No.	Name and designation	Institution	Details of work done	Duration	Remarks
1.	Dr. Diggangana Talukdar Assistant Professor	ICAR, NEH, Umiam, Borapani	 <i>Phytopthora</i>, <i>Fusariam</i> and <i>Ralstonia</i> diseases of Horticultural and field crops" in Plant Pathology Division. Evaluation of antagonistic potential 	05.06.2015 – 01.07.2016	1 year 1 month

			fluorescent pseudomonas species against bacterial wilt pathogen		
		College of Horticulture (CAU-I), Bermiok	• Research focus on organic management of fruit and spice crops and IDM	18.08.2016 to till date	4 years 4 months
2.	Dr. Dipika Sarmah Assistant Professor	College of Horticulture (CAU-I), Bermiok	 Research focus on - Standardization organic cultivation practices of flowers under protected condition. Collection, evaluation and characterization of gladiolus varieties suitable for Sikkim Standardization of Post-Harvest management of flowers 	04.09.2017 to till date	5 years 3 months
3.	Dr. Pukhram Bhumita Assistant Professor	College of Horticulture (CAU-I), Bermiok, Sikkim	Research focus on beekeeping and IPM	11.08.2016 to till date	6 years 4 months
4.	Dr. Yamuna Pandey Assistant Professor	ICAR Research complex for NEH Region, Sikkim Centre.	 CCS technology mission for integrated development of horticulture in NEH region Year round vegetables production under low cost plastic rain shelters Biochemical analysis of fruits and vegetables Nursery management of 	02.09.2013- 31.07.2014	11 months

		Sikkim University	 horticultural crops Reproduction technology of strawberry, kiwifruit and Sikkim mandarin Extension of shelf life of indigenous fruits of Sikkim by irradiation technology for livelihood security under DAE funded project 	01.09.2016- 28.02.2017	6 months
		College of Horticulture (CAU-I), Bermiok	 Research focus on quality planting material production and value addition of fruit crops. Collection, Conservation and Morpho-phenological Characterization of Citrus Germplasms of North East India. Influence of shoot pruning on growth and fruiting and yield of Guava Cv. Allabad Safeda Under Sikkim Condition. Standardization of organic fertilizers for Sweet Orange Cv. Valencia under Sikkim Condition. 	23.12.2019 to till date	3 years
5.	Dr. Sapam Rajeshkumar Singh Assistant Professor	College of Horticulture (CAU-I), Thenzawl, Mizoram	• Enhancing Socio- economic status and livelihood security of tribal Farmers of Northeast Hill state through Agriculture Intervention (Tribal sub Plan Implementation in Mizoram)	30.08.2016- 22.12.2019	3 years 4 months
		College of	Research focus on -	23.12.2019 to	3 years

		Horticulture (CAU-I), Bermiok	 Collection, characterization and evaluation of chayote of NE region Collection, characterization and evaluation of dalle Collection, characterization and evaluation of chilli with special reference to dale Exploration, collection, documentation of underutilized and wild vegetables of Sikkim Collection, characterization and evaluation of large cardamom available in Sikkim of Himalayan region 	till date	
6.	Dr. Haobijam Sanjita Devi Assistant Professor	Indian Institute of Science, Bangalore	Actin protein isoform switching during developmental stage in Zebra fish	01.10.2010- 30.06. 2011	9 months
		College of Horticulture (CAU-I), Bermiok	Involved in research activities in the field of Horticulture	30.12.2019 to till date	3 years

Extension

Sl. No.	Name and	Institution	Details of work done	Duration	Remarks
	designation				
1.	Dr. Diggangana Talukdar Assistant Professor	College of Horticulture (CAU-I), Bermiok	 As a resource person in 5 days capacity building programme on (integrated farming system for sustainable agriculture) for Agricultural/Extension Officers, Drectorate of Agriculture and Food Production, Govt. Of Odisha, Bhubaneswar during September, 2016 As a resource person in 1day off campus training programme on use of plastics on protected organic cultivation in Sikkim, CAEPHT (CAU. Imphal), Ranipool, Sikkim held on Tashiding Vilage, Arithang, West Sikkim, 2017 As a resource person in three days programme i.e., Quality Production of Mushroom, during 19-21 January, 2017 at ATIC, CAEPHT, Ranipool, Gantok (Sikkim) Organized awareness programme on "Management of important diseases of Horticultural cropsat Assam linzey, Sikkim – 2020 As a resource person in training program on Organic Farming under Agricultural Skill Council of India (ASCI) Organic insect-pest management of oilseed and pulses" ICAR, NOFRI, Sikkim – 2020 Published three leaflets <i>viz</i>, Important diseases of Large Cardamom (<i>Amomum sublatum</i>) in Sikkim and its Management. 	18.08.2016 to till date	6 years 4 months

2. Dr. Dipika College of Horticulture (CAU-1), Bermiok Organized one day hands on training programme on production technology of Gerbera and carnation flower at Assam Linzey, Sikkim - 2020 04.09.2017 5 years 3 to ill date Professor 9. Organized one day hands on training programme on Dry flower production at Paykong, East Sikkim on 25.01.2021 0 till date 0 toll date Organized one day training programme on Dry flower production at Paykong, East Sikkim condition at Bermiok, South Sikkim 23.02.2021. 0 Organized fore days training programme on Nursery production and management of Horticultural crops for enhancing farmers income during 20-24 th Dec,2021 0 Organized five - days long format training programme on 'Improved Production Technology and Post -Harvest Management of Horticultural Crops' was held at College of Horticulture (CAU), Bermiok; Ranipool campus on 7 th -11 th March, 2022. Organized on campus two days hands on training programme on 17 th & 19 th March, 2022. 0 organized on campus two days hands on training programme on 17 th & 19 th March, 2022.				• Important diseases of Mandarin (Citrus reticulate) in		
 Dr. Dipika College of Horticulture (CAU-D), Bermiok Organized one day hands on training programme on production (CAU-D), Bermiok Organized one day training programme on Dry flower Production at Paykong, East Sikkim on 25.01.2021 Organized one day training programme on Dry flower Production at Paykong, East Sikkim on 25.01.2021 Organized one day training programme Cultivation of Chrysanthemum under Sikkim Condition at Bermiok, South Sikkim 23.02.2021. Organized five days training programme on Nursery production and management of Horticultural crops for enhancing farmers income during 20-24th Dec.2021 Organized five - days long formal training programme on 'Improved Production Technology and Post -Harvest Management of Horticultural Crops' was held at College of Horticulture (CAU), Bermiok; Ranipool campus on 7th -11th March, 2022 Organized on campus two days hands on training programme on 'Mushroom cultivation and pickle making for rural women on 17th & 19th March, 2022. As a Resource Person: As a resouce person in three days off campus training programme on disease Management' organized by All 				Sikkim and its management.		
2. Dr. Dipika College of Sarmah College of Horticulture (CAU-I), Bermiok • Organized one day hands on training programme on production technology of Gerbera and carnation flower at Assam Linzey, Sikkim - 2020 • Organized one day training programme on Dry flower Production at Paykong, East Sikkim on 25.01.2021 • Organized one day training programme on Dry flower Production at Bermiok, South Sikkim 23.02.2021. • Organized five days training programme on Nursery production and management of Horticultural crops for enhancing farmers income during 20-24 th Dec, 2021 • Organized five - days long formal training programme on 'Improved Production Technology and Post -Harvest Management of Horticultural Crops' was held at College of Horticulture (CAU), Bermiok; Ranipool campus on 7 th -11 th March, 2022 • Organized on campus two days hands on training programme on 'Improved Production and pickle making for rural women on 17 th & 19 th March, 2022. • As a resource Person: • As a resource Person • As a resource Person in three days off campus training programme on Green House under organic management'' organized by All				• Training leaflet on management of important diseases of		
 2. Dr. Dipika Sarmah Assistant Professor CAU-D, Bermiok Organized one day hands on training programme on production (CAU-D), Bermiok Organized one day training programme on Dry flower Production at Paykong, East Sikkim on 25.01.2021 Organized one day training programme Cultivation of Chrysanthemum under Sikkim Condition at Bermiok, South Sikkim 23.02.2021. Organized five days training programme on Nursery production and management of Horticultural crops for enhancing farmers income during 20-24th Dec,2021 Organized five - days long formal training programme on 'Improved Production Technology and Post -Harvest Management of Horticultural Crops' was held at College of Horticulture (CAU), Bermiok; Ranipool campus on 7th -11th March, 2022 Organized on campus two days hands on training programme on '1mth Alth March, 2022. As a resouce Person: As a resouce person in three days off campus training programme on disease Management for Tomato & Capsicum in Green House under organic management" organized by All 				horticultural crops.		
As a resouce person in three days off campus training programme on disease Management for Tomato & Capsicum in Green House under organic management" organized by All	2.	Dr. Dipika Sarmah Assistant Professor	College of Horticulture (CAU-I), Bermiok	 Organized one day hands on training programme on production technology of Gerbera and carnation flower at Assam Linzey, Sikkim – 2020 Organized one day training programme on Dry flower Production at Paykong, East Sikkim on 25.01.2021 Organized one day training programme Cultivation of Chrysanthemum under Sikkim Condition at Bermiok, South Sikkim 23.02.2021. Organized five days training programme on Nursery production and management of Horticultural crops for enhancing farmers income during 20-24th Dec,2021 Organized five - days long formal training programme on 'Improved Production Technology and Post -Harvest Management of Horticultural Crops' was held at College of Horticulture (CAU), Bermiok; Ranipool campus on 7th -11th March, 2022 Organized on campus two days hands on training programme on 'Mushroom cultivation and pickle making for rural women on 17th & 19th March, 2022. 	04.09.2017 to till date	5 years 3 months
Green House under organic management" organized by All				• As a resouce person in three days off campus training programme on disease Management for Tomato & Considum in		
				Green House under organic management" organized by All		

India Coordinated Research Project on Plastic Engineering in Agriculture Structure & Environmental Management	
(CAEPHT,CAU), Gangtok centre at Assam Lingzey, East Sikkim 2020	
 As a resouce person delivered a lecture on Nursery Management of Horticultural Crops in two days training on Management and Demonstration of Integrated Farming System for Small Land Holders during 7 -8th January, 2021 As a resouce person delivered a lecture on dry flower production in three days Hands -on Training and Demonstration on "Skill Development for strengthening of rural livelihood security" during 9.11th March. 2021 	
 As a resouce person delivered a lecture on dry flower production in three days training programme on Entrepreneurial skill development for economic empowerment of rural women during 8-10th Dec, 2021 	
• Act as a resource person in five days training programme on entrepreneurship and skill development in horticulture sector for empowering the youth and employment generation and delivered a lecture on Value addition of flower crops on 23.02.22	
 Act as a resource person in six days Skill Training programme on Rural youth on IPM Horticultural crops and delivered a lecture on protected cultivation of Gerbera under Sikkim condition during 14-19th November, 2022. Act as a resource person in three days training programme on 	
 Act as a resource person in three days training programme on recent organic cultivation technology in Horticultural crops and delivered a lecture on organic production technology of major 	

 flower crops in Sikkim condition during 30th Nov – 2nd Dec, 2022. Leaflets/training leaflets/flex: Published leaflets viz. Package and Practices of growing of anthurium (Anthurium andreanum) Package and Practices of growing of Cymbidium Orchid (Cymbidium sp.) Package and Practices of growing of marigold (Tagets sp.). Dry flower production (CAU/COH/Bermiok/2022/ Leaflet-16) – Leaflet Cultivation of Chrysanthemum Under Sikkim condition (CAU/COH/Bermiok/2022/Leaflet-17) – Leaflet Organic Cultivation of Cymbidium Under Polyhouse (CAU/COH/Bermiok/2022/Flex. Chart no. 1) Organic Cultivation of Gerbera Under Polyhouse (CAU/COH/Bermiok/2022/Flex. Chart no. 2) Training leaflet on production technology of Gerbera Training leaflet on production technology of Carnation
 Popular Articles: Boost your oxygen level at home by growing indoor plants. Sikkim Express, 1st August, (2021). pp. 05. Rare and Endangered Sikkim Himalayan Rhododendron species, Agriculture Letters 2(9): ISSN: 2582-6522. (2021). Dry flower as a source of employment generation. Sikkim Express, 29th May, pp 05, 2022. Floriculture in North Eastern Region. Souvenir, Regional

			Agri Fair, Assam Agricultural University, pp-34-42, 2022.		
3.	Dr. Pukhram Bhumita Assistant Professor	College of Horticulture (CAU-I), Bermiok	 Organized one day training cum Field Demonstration on "Fruit fly Infesting Horticultural Crops" at Marchak, West Sikkim 2018 Organized one day training programme cum Demonstration on "Bee Keeping" at Assam Lingzey, Sikkim- 2019 Organized one day training cum Field Demonstration on "Important insect pest of horticultural crops & their management" at Assam Lingzey, Sikkim- 2020 Published leaflets <i>viz</i>, Integrated Management of Insect Pest of Large Cardamom (<i>Amomum subulatum</i> Roxb.) Major insect pests of citrus: A Field Diagnostic Aid Major insect pests of tomato (<i>Lycopersicon esculentum</i>) and their management Training leaflet on Bee Keeping and their Importance Training leaflet on Fruit fly in Horticulture Crops Training leaflet on Important pest of Horticultural crops and their Management 	11.08.2016 to till date	6 years 4 months
4	Dr. Yamuna Pandey Assistant Professor	ICAR Research complex for NEH Region, Sikkim Centre	• Extension folder on offseason Vegetable Production under Low Cost Plastic Rain Shelters. ICAR Research Complex for NEH Region Sikkim Centre, Tadong, Gangtok- 2014	02.09.2013- 31.07.2014	11 months

College of Horticulture (CAU-I), Thenzwal, Mizoram	 As a resource person in 3 days training programme titled "Post-Harvest Management of Horticultural Crops" organized by College of Horticulture, Thenzawl, Mizoram -2018. As a resource person in the training programme on "Organic Farming Technology" under 'Unnat Bharat Abhiyan' Mizoram - 2018. 	18.09.2017- 20.12.2019	2 years 3 months
College of Horticulture, Bermiok, CAU Sikkim	 Organized workshop as Course Coordinator on "Bio control of invasive crop pest and utilization of insect as food in North East regions of India" during 11-12, February, 2021, Sponsored by NBAIR, Bengaluru. Organized one day State level workshop on Orange cultivation in Sikkim and Citrus Show on 29th November, 2022 at COH, Bermiok. Conducted 5 days training programme on "Improved production technology & and Post- Harvest Management of Horticulture Crops" during 7-11th March, 2022 at COH, Bermiok. Organized 1 day Plant Genetic Resource Conservation Awareness & Agro- Biodiversity Fair on 17-10-2022 at COH, Bermiok. Conducted 5 days training programme on "Entrepreneurship and Skill Development in Horticulture Sector for Empowering the youth and employment generation during 21-25th February, 2022 at COH, Bermiok. As a instructor on Agriculture Education Day and deliver lecture on Horticulture & its Prospects organized by CAEPHT, Ranipool at BPSS School. As a resource person for "Three days interstate training on organic farming of important vegetables crops" ATMA, Bihar 	23.12.2019 to till date	3 years

 During 23rd -25th Feb, 2021 at ICAR research Complex for NEH region Tadong, Sikkim and deliver a lecture on "Value addition of vegetable crops to improve the livelihood security of rural farmers" As a resource person on Seven days training programme on organic crop production technology in hilly regions for B.Sc students of Green Land Schools of Agriculture, Andhra Pradesh and deliver a lecture on "Value addition of fruits and vegetable crops to improve the livelihood security of rural farmers" at ICAR research Complex for NEH region Tadong, Sikkim on 15-03-2021. Acted as resource person and deliver lecture on the topic "Five days training programme on "Nursery Production and Management of Horticultural crops for enhancing farmers income" and deliver a lecture on topic "Nursery production and propagation of fruit crops" organized by COH, Bermiok. Acted as resource person on Five-Day Training Program on Basic Organic Farming for Krishi Sakhis of South District and deliver a lecture on Value addition of fruits and vegetables to improve livelihood security of rural farmers. organized by ICAR Research Complex for NEH Region. 	
Projects handled as Nodal officer under NEH component during 2021-2022.	
 Promotion of spice in North east India. Crop- Large cardamom funded by ICAR- Indian Institute of Spice Research of Rs. 3.5 lakh. "Demonstration and development of fruit villages under COH, Bermiok funded by ICAR- Central Institute of Subtropical Horticulture of amount Rs. 1.0 lakh. "Development of model vegetable villages" funded by ICAR-Indian Institute of Vegetable Research, Varanasi amount of Rs. 	

			 2.0 Lakh. Training/awareness/field/ Input distribution organized. One day awareness cum planting material distribution programme on large cardamom was conducted on 16th July, 2021 at Dzongu village. Demonstration and development of fruit villages" Sikkim mandarin distribution programme on 10-8-2021. Development of model vegetable villages" under NEH component. Training cum seed distribution programme was conducted at 5 different villages during 23rd August to 27th August, 2021. Radio and TV Talks: 		
			 Radio talk was given on the topic "Sikkim Ma bivinna falharu ko Kheti" on 22.10.2020 at All India Radio, Gangtok Radio Talk on the Topic "Baghbani Fasal ko Nursery Pravandhan evem Utpadan Pravidi" on 7th January, 2022 at All India Radio, Gangtok. TV talk in Agriculture Program on Citrus cultivation technology in Sikkim" on 7th November, 2022 at Door Darshan Kendra Gangtok. 		
5	Dr. Sapam Rajeshkumar Singh Assistant Professor	College of Horticulture (CAU-I), Thenzwal, Mizoram	 As a resource person on 5 days Training program on "Cow based Economy, organized by Unnat Bharat Abhiyan, Pandeet deen dayal Upadhyay, Mizoram- 2017 As a resource person on 5 days Training program on "Irrigation water Management: Installation and maintenance of Micro irrigation system by SAMETI, Mizoram, Aizawl- 2018 As a resource person Training program on "Organic Farming Technology" by Unnat Bharat Abhiyan, Pandeet deen dayal Upadhyay, Mizoram- 2018 As a resource person on 3 days Training program on "Post- 	30.08.2016 to 22.12.2019	3 years 4 months

			Harvest management of Horticulture Crops" COH, Thenzawl-		
		College of Horticulture (CAU-I), Bermiok	 Organized one day Awareness Programme on "Intellectual Property Rights in Plant Breeding" on 5th March 2020 Organized Three days Hands on Training on Seed and Planting Material Production of Horticultural Crops from Feb 2- 4, 2022. Attended CAU-Regional Agri fair 2020-21 and secured second runners up position in Exhibition of College farm 	23.12.2019 to till date	3 years
			 "Quality planting Materials production of Vegetable Crops under the five days training "Recent Organic Cultivatio Technology In Horticulture Crops. Lecture on Organic Seed Production, Processing & Storage of Horticultural Crops in 5 days training programme on "Entrepreneurship and Skill Development in Horticulture Sector for Empowering the Youth and Employment Generation from 21st to 25th. Feb, 2022. 		
6.	Dr. Haobijam Sanjita Devi Assistant Professor	College of Horticulture (CAU-I), Bermiok	Training focus on nutritive value of horticulture crops.	30.12.2019 to till date	3 years

Sl. No.	Name and designation	Highest qualification	Year	Related work experience in the field (M.Sc./PhD research topic)	Award/recognition/certificate (Year)	Experience in other areas
1.	Dr. Diana Sagolsem Assistant Professor	Ph.D (Agri) Genetics	2017	Identification of High yielding, early maturity small seeded lentil genotypes and their genetic analysis using molecular markers	 Assam Agricultural University under- graduate merit scholarship (2005-2009) Departmental Topper Post-Graduate Merit scholarship of Central Agricultural University, Imphal (2009-2011) Awarded Young Women Scientist Award at International Conference on New Paradigms for Agriculture, Food and Sustainability Concerns organized by Agriculture Letters, Raichur, Karnataka from 26th to 27th February, 2021 	Conventional breeding, Molecular breeding, Biometrical and Population structure analysis
2.	Dr. Yumlembam Rupert Anand Assistant Professor	Ph.D (Agri) Plant Pathology	2015	Exploration of plant extracts against some plant pathogenic bacteria and diseases caused by them	• Best Oral Presentation Award by Indian Phyto pathological Society at National Symposium on "Emerging and Re-emerging Plant Diseases in North East India: Challenges and Strategies" at ICAR Research Complex for NEH Region, Manipur Centre, Imphal during October 10-11,	 Research experience on isolation characterization and culturing of beneficiary microbes form soil. Have in-vivo and in-vitro research

Multi Technology Testing Centre and Vocational Training Centre (MTTC & VTC), COH, Bermiok, Sikkim

					2017. • University Research Scholarship during PhD (2012- 2015) at Bidhan Chandra Krishi Viswavidyalaya, Mohanpur, West Bengal.	experience for the assessment of bio efficacy of anti- microbial activity on economic important crops against plant pathogenic bacteria. • Have research experience on different laboratory and molecular techniques in the area of Plant Pathology, Molecular Biology & Biotechnology and Bioinformatic tools.
3.	Dr. Sunil Kumar Chongtham Assistant Professor	Ph. D (Agronomy)	2013	Effect of crop established methods and weed management practices on weed dynamics and yield of direct seeded rice.	 NEC Stipend and Book Grant by Directorate of University and Higher Studies, Government of Manipur during 2009-2010 Merit certificate in M.Sc (Agronomy) degree programme during 2010 UGC-BHU Ph. D Fellowship (Agronomy) in 2010 ICAR-SRF (PGS) Fellowship (Agronomy & Agricultural Meteorology) in 2012 	 Weed management Crop establishment methods Nutrient management
4.	Dr. S. Vinodh	Ph. D & PDF	2019	•Studies on optimisation	 Vallalar Endowment Award - 2007 	• Production

	Assistant Professor	(Horticulture)		 of fertigation schedule for improved growth, yield and quality of asiatic and ot hybrid lilies (<i>lilium</i> <i>spp.</i>) Development of novel varieties in crossandra through breeding 	 The Srilochani Varadarajulu Gold Medal Award for Masters Degree -2008 ICAR–SRF(PGS) 2010 for full Time Ph. D students INSPIRE Fellowship – 2010 (2009 -12) Best Poster Award -2013 Best Young Scientist Award- 2016 Post-Doctoral Fellowship -2015- 2019 	 technology of flowers, medicinal and aromatic crops, Post harvest management of horticultural crops
5.	Ms. Mayanglambam Victoria Devi Assistant Professor	M.Sc (Agri. Extension)	2017	Social simulation on assimilation of climate smart agricultural practices in North Eastern hill region of India	 Best paper presentation- Indian Society of Agricultural Economics 2017 Best paper presentation, Indian Society of Extension Education- 2017 Best oral presentation, Indian Council of Agricultural Research North Eastern Hill Region, Umiam- 2019 Full Term Doctoral Fellowship (2019) of Indian Council of Social Science Research (ICSSR), New Delhi. Best Research project in East zone Inter University students Research Convention, 2019-20. 	

Experience in teaching/research/extension

Teaching

Sl.No.	Name and designation	Institution	Details (UG/PG)	Duration	Total experience
1.	Dr. Diana Sagolsem Assistant Professor	College of Horticulture (CAU-I), Bermiok	Took all UG courses of Plant breeding and genetics courses, biotechnology, crop-physiology, growth development of horticultural crops courses	27.08.2016- 23.12.2019	3 years 4 months
		MTTC & VTC, COH, CAU, Bermiok, Sikkim	Taking UG courses of breeding of vegetables and tuber crops, spice and condiments, biotechnology	23.12.2019 to till date	3 years
2.	Dr. Yumlembam Rupert Anand Assistant Professor	MTTC & VTC, COH, CAU, Bermiok, Sikkim	Taking UG course of Microbiology, Plant Pathology and Nematology	30.12.2019 to till date	3 years
3.	Dr. Sunil Kumar Chongtham Assistant Professor	SDAU, Dantiwada	Worked as course instructor in polytechnic college, Delivered lectures and conducted practical classes for field experience in potato production technologies during under RHWE programmes for Bachelor of Rural Studies (B.R.S.) and Master of Rural Studies (M.R.S.), RAWE for B.Sc (Agriculture)	2015-2017	3 years
		MTTC & VTC, COH, CAU, Bermiok, Sikkim	Taking all UG courses of agronomy	30.12.2019 to till date	3 years
4.	Dr. S. Vinodh Assistant Professor	TNAU, Coimbatore	Took UG courses of HOR 212, EXP 402, FLG 201 FLS 321, PHM 321, PHM 311. PG courses of FLR 603, FLR 604, FLA 504 and	9.12.2015 to 31.12.2019	4 years

			Ph.D courses of FLR 803, FLR 813		
		MTTC & VTC, COH, CAU, Bermiok, Sikkim	Taking UG courses of Post harvest and medicinal and aromatic	09.01.2020 to till date	2 years 11 months
5.	Ms. Mayanglambam Victoria Devi Assistant Professor	MTTC & VTC, COH, CAU, Bermiok, Sikkim	 Taking the following UG courses: Environmental studies and Disaster Management (NRM-312) Entrepreneurship Development (FBM-4102) Economics and Marketing (SSC-111) Fundamentals of Extension Education (SSC-323) Extension and Rural Development (EEC-111) Information and Communication Technology (EEC-365) 	06.06. 2020 to till date	2 years and 6 months

Research

Sl. No.	Name and designation	Institution	Details of work done	Duration	Remarks
1.	Dr. Diana Sagolsem Assistant Professor	ICARDA funded project at BCKV	 Collection, characterization, evaluation of germplasm using morphological and molecular markers of lentil Biometrical analysis Genetic divergence and population structure analysis Identification of a suitable genotype with early maturing, 	01.04.2013 to 01.02.2016	2 years 10 months

	 high yielding lentil genotype Broadening of the genetic base of the Indian germplasm through hybridization with Mediterranean and South East Asia germplasm 		
College of Horticulture (CAU-I), Bermiok	 Collection and characterization of chayote Collection and characterization of dalle Documentation of underutilized wild edible vegetables of Sikkim 	27.08.2016 to 22.12.2019	3 years 4 months
MTTC & VTC, COH, CAU, Bermiok, Sikkim	 Collection and characterization of dalle Effect of mulching practices on yield and its attributing characters of Broccoli under low-cost polyhouse condition. Involved in layout of the field, taking observations and analysis of the data Collection and characterization of Indian bean Development of early maturing high yielding Indian Bean genotype suitable under mid hill conditions 	23.12.2019 to till date	3 years

2.	Dr. Yumlembam Rupert Anand Assistant Professor	Bidhan Chandra Krishi Viswavidyalaya, Mohanpur, Nadia, West Bengal	 Involved in planning the field layouts, planting and management of trials. Handled the field operations, recorded the observations viz. disease incidence, intensity, insect population count, plant height, plant vigour etc. Observe the occurrence of different diseases, study its causes, symptoms, morphological characters, loses. Recorded the observations, analyzed data, prepared report and presentations. Responsible for maintaining the technical correspondence. Deal the account procedures, purchase of necessary entities 	23.07.2014 to 31.07.2015	1 year
		Krishi Vidyapeeth, Rahuri,	• Data analysed based on ETL of the disease and pest and sending of advisory twice a weekly to the talukas of eight districts under	24.08.2015 to 31.01.20 17	1 year 5 months

Ahmednagar,	University Jurisdiction.		
Maharashtra	• Observe the occurrence of different diseases, study its causes, symptoms, morphological characters, loses.		
	• Responsible for maintaining the technical correspondence. Deal the account procedures, purchase of necessary entities.		
	• Conduct Meetings / workshops to educate the pest scouts, pest monitors and the farmers.		
	• Conduct survey / farm visits to Pomegranate growing pockets of Pune, Solapur, Satara, Sangli, Nashik, Dhule, Aurangabad and Ahmednagar for disease and insect pest surveillance, to study the crop status.		
ICAR RC-NEH Region	 Analysis of the genetic diversity of Musa species/subspecies from North East India and integrated endogenous Badnavirus sequences. Study of co-evolution 	21.02.2017 to 29.12.2019	2 year 10 months

		Characterization, genetic heterogeneity of episomal badnaviruses infecting diverse banana genotypes and their quasispecies evolution in North East India.		
	MTTC & VTC, COH, CAU, Bermiok, Sikkim	 Project under AICRP-PEASEM "Micro-climate management for round the year oyster mushroom production in polyhouse for mid- temperate region" Survey on diseases and pest of citrus 	30.12.2019 to till date	3 years
		• Study on large cardamom chirke viral disease of <i>Capsicum</i> <i>annuum</i> (landrace Dalle Khursani) at Sikkim		

3.	Dr. Sunil Kumar Chongtham	SDAU, Dantiwada	AICRP (Potato), CPRI, ShimlaNutrient requirement of newly	14.03.2014 - 21.08. 2018	4 years 5 months
	Assistant Professor		released potato cultivars		
			• Performance of different potato cultivars under drip irrigation		
			• Develop site specific NPK requirements		
			• Weed management in potato		
			• Role of boron in reducing tuber cracking in processing variety Kufri Chipsona-3		
			• Optimizing phosphorus requirements of potato under current scenario of P use by the farmers		
		• Development of micronutrient			
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		formulation for potato			
		Potassium requirement of potato			
		under different irrigation methods			
		AICRP (Sorghum), IIMR,			
		Hyderabad			
		Fertilizer X Genotype interaction			
		in a rainfed environment (FS			
		single cut)			
		Optimization of production factor			
		under resource constraints (FS			
		Single cut)			
		• Evaluation of suitable varieties of			
		groundnut with nutrient levels for			
		potato-groundnut system (Rabi-			
		Summer 2016-17			
		AICRP (Groundnut), DGR,			
		Junagadh			
		Evaluation of suitable varieties of			
		groundnut with nutrient levels for			
		potato-groundnut system (Rabi-			
		Summer 2016-17			
		• Irrigation management in			
		summer groundnut under potato-			
		groundnut system in light soils			
		(Rabi-Summer 2016-17)			
	MTTC & VTC,	Intra Mural Research Project on 30.12.2019 3 years			
	COH, CAU,	"Studies on different organic			

		D		4:11 .1.4.	
		Bermiok, Sikkim	 nutrient management practices and genotypes on growth, yield, quality, and economics of buckwheat in Sikkim" A field study on "Integrated Nutrient Management of Broccoli" at farmer's field at Assam Lingzey, East Sikkim A preliminary study on "Effect of mulching practices on yield and productivity of Broccoli under low-cost polyhouse condition" 		
4.	Dr. S. Vinodh Assistant Professor	TNAU, Coimbatore	 Fertigation schedule for Asiatic (8:4:10 g NPK/m² + micro nutrient mixtures @ 4 g/m²) and OT hybrid (16:8:20 g NPK/m² + micro nutrient mixtures @ 4 g/m²) Lilium has been standardized for getting better quality of flower stems by growers. Enhanced preservation of fruits in South Asia Using Nano Film" and assisted in finding the hexanal spray concentration to extend the shelf life of mango fruits after harvesting. 	2015-2020	5 years

		MTTC & VTC, COH, CAU, Bermiok, Sikkim	• Research focus on organic cultivation of horticultural crop under open and protected condition	9.01.2020 to till date	2 years 11 months
5.	Ms. Mayanglambam Victoria Devi Assistant Professor	MTTC & VTC, COH, CAU, Bermiok, Sikkim	 Research focus on – Climate Change and Environment studies Women Empowerment Information and Communication Technology and its application in Agriculture & rural development Entrepreneurship and start-ups Youth and Rural Development 	06.06.2020 to till date	2 years and 6 months

Extension

Sl. No.	Name and designation	Institution	Details of work done	Duration	Remarks
1.	Dr. Diana Sagolsem	College of	• Organized One Day Awareness Programme on	2016-2019	3 years
	Assistant Professor	Horticulture (CAU- I), Bermiok	 "Intellectual Property Rights in Plant Breeding" on 5th March 2020. Published leaflet <i>viz</i>. Package and practices of chayote cultivation in Sikkim Package and practices of tomato (Solanum) 		

	 <i>lycopersicum</i> L) cultivation in Sikkim Package and practices of Chilli (<i>Capsicum annuum</i>) cultivation in Sikkim 		
MTTC & VTC, COH, CAU, Bermiok, Sikkim	 Organized three Days National Webinar on "Sustaining Organic Farming During and Post- COVID-19" from 3rd August to 5th August 2020 Organized two days off-campus training on "Integrated Crop Management Approaches Under Organic Production Systems" at Assam Lingzey, East Sikkim during 8-9 December, 2020 as Coordinator. Organized two days farmers' training on "Nursery Management of Cole Crops Under Protected Cultivation" at CAEPHT, CAU(I), Ranipool, East Sikkim, Sikkim during 18-19 December, 2020 as Coordinator. Organized two days off-campus training on "Mushroom Cultivation with Its Value Addition and Marketing Under Sikkim Condition" at Padamchey, East Sikkim, Sikkim during 15-16 January, 2021 as Organizing Member. Organized One Day Off-Campus Training Programme on "Precision Production Technology of Flower Crops" at Upper Soureni, East Sikkim on 5 February 2021 as Organizing Member. Organized One Day Off-Campus Awareness Programme on "Different Methods of Compost and Media Preparation for Protected Cultivation" at Assam Lingzey, East Sikkim on 23 January 2021 as Organizing Member. Organized One Day Off-Campus Awareness 	23.12.2019 to till date	3 years

	Programme on "Jalkund- a low-cost water	
	conserving technique for hilly regions" at	
	Assam Lingzey, East Sikkim on 4 February	
	2021 as Organizing Member.	
	• Acted as resource person during Three days	
	training programme on "Disease Management	
	for Tomato & Capsicum in Green House under	
	Organic management" at Assam Lingzey, East	
	Sikkim from 23 rd to 25 th November, 2020.	
	• Acted as resource person during Two days off-	
	campus training on "Integrated Crop	
	Management Approaches Under Organic	
	Production Systems" at Assam Lingzey, East	
	Sikkim from 8 th to 9 th December, 2020.	
	• Acted as resource person during Two days	
	farmers' training on "Nursery Management of	
	Cole Crops Under Protected Cultivation" at	
	CAEPHT, CAU(I), Ranipool, East Sikkim,	
	Sikkim from 18 th to 19 th December, 2020.	
	• Acted as resource person during two days off-	
	campus training on "Mushroom Cultivation	
	with Its Value Addition and Marketing Under	
	Sikkim Condition" at Padamchey, East	
	Sikkim, Sikkim from 15 th to 16 th January,	
	2021.	
	• Acted as resource person during Three days	
	hands on training and Demonstration on "Skill	
	Development for Strengthening of Rural	
	Livelihood Security" at Assam Lingzey, East	
	Sikkim from 9 th to 11 th March, 2021.	
	• Organized 6-week training programme under	
	Pradhan Mantri Van Dhan Yojana-	
	Entrepreneurship and Skill Development	
	Programme (PMVDY-ESDP) sponsored by	

I			TRIFFD Cout of India of Coordinator and Co	
			TKITED, OUVI. OF HILIA AS COOLUMATOR AND CO	
			coordinator (10tal 18 nos.)	
		•	Organized three days training programme on	
			"Entrepreneurial Skill Development for	
			Economic Empowerment of Rural Women"	
			sponsored by ICAR-NIBSM from 8 th	
			December to 10 th December, 2021 at Nandok,	
			East Sikkim and acted as Co-coordinator	
		•	Organized three Days Hands on Training on	
			"Value Addition of Horticultural Crops"	
			sponsored by ICAR-ATARI through DEE	
			component from 6 th October to 8 th October,	
			2021 at CAEPHT, Ranipool, Sikkim and acted	
			as Co-coordinator	
		•	Organized three Days Hands on Training	
			programme on "Improved Composting	
			Methods" sponsored by ICAR-NIBSM from	
			27 th December to 29 th December. 2021 at	
			Assam Lingzev. East Sikkim and acted as Co-	
			coordinator	
		•	Organized three days hands on training	
			programme on "Mushroom Technology"	
			sponsored by ICAR-ATARI through DEF.	
			component from 20 th December to 22 nd	
			December 2021 at CAEPHT Ranipool	
			Sikkim and acted as Co-coordinator	
		•	Organized One day Awareness cum Workshop	
		•	Programme on Nursery raising techniques was	
			conducted at Kamaray Bhasnay Villago	
			Dakyong East Sikkim on 22 rd December 2021	
			and acted as Coordinator	
		-	A stad on many parson during Three design	
		•	Acted as resource person during Inree days	
			nands on training programme on "Mushroom	
			Technology" from 20 th December to 22 th	

		December 2021 at CAEPHT Panipool	
		Cildring	
	•	Acted as resource person during Three Days	
		Hands on Training programme on "Improved	
		Composting Methods" from 27 th December to	
		29 th December, 2021 at Assam Lingzey, East	
		Sikkim	
	•	Acted as Resource person during Three days	
		training programme on "Entrepreneurial Skill	
		Development for Economic Empowerment of	
		Rural Women" sponsored by ICAR-NIBSM	
		from 8 th December to 10 th December 2021 at	
		Nondok East Sikkim	
		A stad as resource person during five days	
	•	Acted as resource person during five days	
		training programme on "Nursery Production	
		and Management of Horticultural Crops for	
		Enhancing Farmers' income'' from 20 th	
		December to 24 th December, 2021 at Middle	
		Syari, East Sikkim	
	•	Acted as resource person during three days	
		"Entrepreneurial and Skill Development for	
		Economic Empowerment of Rural Women"	
		from 8th December to 10th December, 2021 at	
		Nandok, East Sikkim	
	•	Acted as resource person during three days	
		trainers' training programme on "Organic seed	
		production techniques of different crops under	
		organic conditions" from 27 th December to	
		20 th December 2021 at ICAR RC NEH	
		Pagion Sikkim contro Todong Sikkim	
		A stad og rasouraa narson during Ora dar	
	•	Acteur as resource person during One day	
		Awareness cum worksnop Programme on	
		Nursery raising techniques was conducted at	
		Kamarey Bhasney Village, Pakyong, East	

Sikkim on 23 rd December, 2021	
 Diana Sagolsem, Sunil Kumar Chongtham, S. Vinodh, Y. Rupert Anand and M. Victoria Devi (2020). Integrated Crop Management Approaches Under Organic Production Systems. Publication No: CAU/CAEPHT/MTTC & VTC/LEAFLET/2020 Diana Sagolsem, Sunil Kumar Chongtham, Y. Rupert Anand, S. Vinodh, M. Victoria Devi and Deepak Ibaibaria (2020). Nurserv. 	
Management of Cole Crops Under Protected Cultivation. Publication No: CAU/CAEPHT/MTTC&VTC/Booklet/2021 /13	
 S. Vinodh, Sunil Kumar Ch., Y. Rupert Anand, M. Victoria Devi and Diana Sagolsem (2021). Different Methods of Compost & Media Preparation for Protected Cultivation. Publication No: CAU/CAEPHT/MTTC & VTC/LEAFLET/2021/08 	
 Sunil Kumar Chongtham, Ch. Birendrajit, S. Vinodh, Diana Sagolsem, Y. Rupert Anand, M. Victoria Devi and Deepak Jhajharia (2021). Jalkund- A Low-Cost Water Conserving Technique for Hilly Regions. 	
 Publication No: CAU/CAEPHT/MTTC & VTC/LEAFLET/2021/09. Y. Rupert Anand, Diana Sagolsem, Sunil Kumar Chongtham, S. Vinodh, and Victoria M., Deepak Jhajharia and Smriti Chettri 	

2.	Dr. Yumlembam	MahatmaPhule	 (2021). Mushroom Cultivation with Its Value Addition and Marketing Under Sikkim Condition. Publication No: CAU/CAEPHT/MTTC&VTC/Booklet/2021 /07 M. Victoria Devi, Sunil Kumar Ch., S. Vinodh, Diana Sagolsem, and Y. Rupert Anand (2021). Entrepreneurial Skill Development for Economic Empowerment of Rural Women. Publication N.: CAU/CAEPHT/MTTC & VTC/Leaflet/2021/11 Sunil Kumar Ch., Ch. Birendrajit, S. Vinodh, Diana Sagolsem, Y. Rupert Anand and M. Victoria Devi (2021). Improved Composting Methods. Publication No.: CAU/CAEPHT/MTTC & VTC/Booklet/2021/14 (Bilingual) Delivered lectures regarding pest and diseases of Devised Part of the second sec	24.08.2015 to	1 year 5
	Rupert Anand Assistant Professor	Krishi Vidyapeeth, Rahuri, Ahmednagar, Maharashtra	Pomegranate to the farmers during the project period.	31.01.2017	months
		ICAR RC-NEH Region	 Delivered lectures regarding pest and diseases of banana to the farmers during the project period. Delivered lectures on Training on "National workshop cum hands on training "Next Generation Sequencing: Its application in Genomics of banana viruses." at ICAR Research Complex for NEH Region, Manipur Centre during 26th to 18th March, 2019 	21.02.2017 to 29.12.2019	2 year 10 months

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		MTTC & VTC,	• Organized trainings on topics related to	30.12.2019 to	3 years
		COH, CAU,	Mushroom cultivation	till date	
		Bermiok, Sikkim	Integrated pest management		
			Pest and diseases of Horticultural crops		
			> Nursery Management Under Protected		
			Cultivation		
			Pest and diseases on Citrus		
			• Published leaflet and booklets related to		
			Mushroom cultivation		
			Integrated pest management		
			Pest and diseases of Horticultural crops		
			> Nursery Management Under Protected		
			Cultivation		
			Pest and diseases on Citrus		
3.	Dr. Sunil Kumar	SDAU. Dantiwada	• Participated in Krishi Mahotsav organized by	2014-2018	4 years and 5
	Chongtham	,	Directorate of Agriculture, Government of		months
	Assistant Professor		Gujarat and delivered lectures to farmers at		
			1 st June 2014		
			• Participated and delivered lecture in Field day		
			organised by "Deepak Fertilizers and		
			Petrochemicals Corporation Limited, Pune" at		
			Potato Research Station, Deesa on 12 th		
			• Participated in Kishan Kalvan Mahotsay		
			Directorate of Agriculture, Government of		
			Gujarat and delivered lectures to farmers at		
			Abdasa, District Kutch during 2 nd May, 2018		
			• Delivered lectures regarding potato production		
			technologies to the visiting students of SAU's of	1	

ICAR-KVK Chandel	 Gujarat Delivered lectures regarding potato production technologies to the visiting progressive of Gujarat and adjoining states One Day Farmer Awareness Programme under AMFU & DAMU, ICAR-RC-NEH, Manipur Centre 	March, 2019 to December, 2019	10 months
MTTC & VTC, COH, CAU, Bermiok, Sikkim	 Two-day Off-Campus Training on "Integrated Crop Management Approaches under Organic Farming Systems at East Sikkim during December 2020 as Coordinator Organized Three Days National Webinar on "Organic Farming" during August 2020 as Organising Secretary Two days Off-campus training on "Integrated Crop Management Approaches Under Organic Production Systems" at Assam Lingzey, East Sikkim during 8-9 December, 2020 as Coordinator. Two days Farmers' training on "Nursery Management of Cole Crops Under Protected Cultivation" at CAEPHT, CAU(I), Ranipool, East Sikkim, Sikkim during 18-19 December, 2020 as Committee Member. Two days Off-campus training on "Mushroom Cultivation with Its Value Addition and Marketing Under Sikkim, Sikkim during 15-16 January, 2021 as Committee Member. One Day Off-Campus Training Programme on "Precision Production Technology of Flower Crops" at Upper Soureni, East Sikkim on 5 	30.12.2019 to till date	4 years and 5 months

February 2021 of Committee Member	
February 2021 as Committee Member.	
• One Day Ott-Campus Awareness Programme	
on "Different Methods of Compost and Media	
Preparation for Protected Cultivation" at	
Assam Lingzey, East Sikkim on 23 January	
2021 as Coordinator.	
• One Day Off-Campus Awareness Programme	
on "Jalkund- a low-cost water conserving	
technique for hilly regions" at Assam Lingzey.	
East Sikkim on 4 February 2021 as	
Coordinator	
• World Soil Day on 5th December 2020 as	
Committee Member	
Three days Hands on training programme on	
• Three days flands on training programme on "Improved Composting Methods" anonogoal	
Improved Composing Methods sponsored	
by ICAR - NIBSM as Coordinator	
• Three days on-campus training on "Value	
addition of horticultural crops" at MTTC &	
VTC, CAEPHT, Ranipool, Sikkim as Co-	
coordinator	
• Three days off-campus training on	
"Entrepreneurial Skill Development for	
Economic Empowerment of Rural Women" at	
Nandok, Ranipool, Sikkim as Co-Coordinator	
• Three days on-campus training on "Mushroom	
Technology" at MTTC &VTC, CAEPHT.	
Ranipool, Sikkim as Co-Coordinator.	
• One-day Training Programme on "Common	
nest and disease management of crop plants in	
Sikkim condition" at Marchak village	
Ranipool Fast Sikkim as Co-coordinator	
One-day Awaraness our Workshop	
• One-day Awareness cum workshop	
Programme on Nursery raising techniques at	
Kamarey Bhasney village, Pakyong, East	

			 Sikkim as Co-coordinator 6-week long training programmmes under Van-Dhan Yojana- Entrepreneurship and Skill Development Programme (PMVDY-ESDP) (total 18 nos. of training of six weeks each) sponsored by TRIFED (Coordinator and co- coordinator) at four districts of Sikkim during 2021-2022 		
4.	Dr. S. Vinodh Assistant Professor	TNAU, Coimbatore	 Organized two days training programme on "Micro irrigation and precision farming" under GOI sponsored scheme 'Precision farming development centre' operating under AEC & RI, TNAU, Coimbatore in different Districts <i>viz.</i>, Coimbatore, Namakkal, Dharmapuri and Trichy, Tamil Nadu As a Post-Doctoral Fellow, assisted in organizing the EDI sponsored 21 days training programme on "Landscaping and Floriculture" held at the Department of Floriculture and Landscaping, HC & RI, TNAU, Coimbatore As a Post-Doctoral Fellow, assisted in organizing the 30 days training programme on "Skilling of Gardeners" held at the Department of Floriculture and Landscaping, HC & RI, TNAU, Coimbatore. Actively involved in Cataloguing and digital documentation of Coffee table book "Flora of Raj Bhavan, Chennai and Ooty" which was published by the Honourable Governor of Tamil Nadu Sates. 	2015-2020	5 years

• Organized two days training programme on	09.01.2020 to	2 years 11
"Integrated crop management approaches under	till date	months
organic production systems" at Assam Lingzey,		
East Sikkim, 2020		
• Organized two days training programme on		
"Nursery management of cole crops under		
protected cultivation" under AICRP on PET		
operating under CAEPHT Sikkim 2020		
• Organized three Days National Wahiner on		
• Organized three Days National webinar on		
"Sustaining Organic Farming During and Post-		
COVID-19" from 3" August to 5" August 2020		
Training organized		
• Two days off-campus training on "Integrated		
Crop Management Approaches Under Organic		
Sitching during 8.0 December 2020		
Committee member		
• Two days farmers' training on "Nursery		
Management of Cole Crops Under Protected		
Cultivation" at CAEPHT, CAU(I), Ranipool,		
East Sikkim, Sikkim during 18-19 December,		
2020 as Committee Member.		
• Two days off-campus training on "Mushroom		
Cultivation with Its Value Addition and		
Marketing Under Sikkim Condition" at		
Padamchey, East Sikkim, Sikkim during 15-16 th		
January, 2021 as Committee Member.		
• One Day Off-Campus Training Programme on		
"Precision Production Technology of Flower		
	 Organized two days training programme on "Integrated crop management approaches under organic production systems" at Assam Lingzey, East Sikkim, 2020 Organized two days training programme on "Nursery management of cole crops under protected cultivation" under AICRP on PET operating under CAEPHT, Sikkim, 2020 Organized three Days National Webinar on "Sustaining Organic Farming During and Post- COVID-19" from 3rd August to 5th August 2020 Training organized Two days off-campus training on "Integrated Crop Management Approaches Under Organic Production Systems" at Assam Lingzey, East Sikkim during 8-9 December, 2020 as Committee member. Two days farmers' training on "Nursery Management of Cole Crops Under Protected Cultivation" at CAEPHT, CAU(I), Ranipool, East Sikkim, Sikkim during 18-19 December, 2020 as Committee Member. Two days off-campus training on "Mushroom Cultivation with Its Value Addition and Marketing Under Sikkim Condition" at Padamchey, East Sikkim, Sikkim during 15-16th January, 2021 as Committee Member. One Day Off-Campus Training Programme on "Precision Production Technology of Flower 	 Organized two days training programme on "Integrated crop management approaches under organic production systems" at Assam Lingzey, East Sikkim, 2020 Organized two days training programme on "Nursery management of cole crops under protected cultivation" under AICRP on PET operating under CAEPHT, Sikkim, 2020 Organized three Days National Webinar on "Sustaining Organic Farming During and Post- COVID-19" from 3rd August to 5th August 2020 Training organized Two days off-campus training on "Integrated Crop Management Approaches Under Organic Production Systems" at Assam Lingzey, East Sikkim during 8-9 December, 2020 as Committee member. Two days farmers' training on "Nursery Management of Cole Crops Under Protected Cultivation" at CAEPHT, CAU(I), Ranipool, East Sikkim, Sikkim during 18-19 December, 2020 as Committee Member. Two days off-campus training on "Mushroom Cultivation with Its Value Addition and Marketing Under Sikkim, Sikkim during 15-16th January, 2021 as Committee Member. One Day Off-Campus Training Programme on "Precision Production Technology of Flower

· · · · · · · · · · · · · · · · · · ·		
	Crops" at Upper Soureni, East Sikkim on 5th	
	February 2021 as Coordinator.	
	• Three days Hands on Training and	
	Demonstration on "Skill Development for	
	enhancement of rural Livelihood at Assam	
	Lingzey, East Sikkim during 9th to 11th March,	
	2021 as Committee member.	
	• One Day Off-Campus Awareness Programme	
	on "Different Methods of Compost and Media	
	Preparation for Protected Cultivation" at Assam	
	Lingzey, East Sikkim on 23 January 2021 as	
	Coordinator.	
	• One Day Off-Campus Awareness Programme	
	on Jaikund- a low-cost water conserving	
	East Sikkim on 4 February 2021 as Committee	
	Member	
	Lectures delivered	
	• Value addition of organic horticultural produce	
	in Two days off-campus training on "Integrated	
	Crop Management Approaches Under Organic	
	Production Systems" at Assam Lingzey, East	
	Sikkim from 8-9 December, 2020.	
	• Transplanting techniques in Cole crops in Two	
	days farmers' training on "Nursery Management	
	of Cole Crops Under Protected Cultivation" at	
	CAEPHT, CAU(I), Ranipool, East Sikkim,	
	Sikkim during 18-19 December, 2020.	
	• Kole of Horticultural Crops in IFS in Two days	
	training Programme entitled Management and	

 Demonstration of Integrated Farming System for Small Land Holders at CAEPHT, CAU(I), Ranipool, East Sikkim, Sikkim during 7-8 January, 2021. Preparation of value-added products from mushroom in Two days off-campus training on "Mushroom Cultivation with Its Value Addition and Marketing Under Sikkim Condition" at Padamchey, East Sikkim, Sikkim during 15-16 January, 2021. Media preparation for potted plants in One Day Off-Campus Awareness Programme on "Different Methods of Compost and Media Preparation for Protected Cultivation" at Assam Lingzey, East Sikkim on 23rd January 2021. Organic production technology of flower crops in One Day Off-Campus Training Programme on "Precision Production Technology of Flower Crops" at Upper Soureni, East Sikkim on 5th 	
 February 2021. Flower arrangements in Three days hands-on training and Demonstration on "Skill Development for Strengthening of Rural Livelihood Security" at Assam Lingzey East Sikkim, Sikkim during 9-11 March, 2021 Three days on-campus training on "Value addition of horticultural crops" at MTTC & VTC, CAEPHT, Ranipool, Sikkim during 06-08 October, 2021 as Coordinator. Three days off-campus training on "Entrepreneurial Skill Development for Economic Empowerment of Rural Women" at Nandok, Ranipool, Sikkim, during 8-10 	

		 December, 2021 as Training Co-Coordinator. Three days on-campus training on "Mushroom Technology" at MTTC&VTC, CAEPHT, Ranipool, Sikkim during 20-22 December, 2021 as Training Co-Coordinator. Three days on-campus training on "Improved composting methods" at MTTC&VTC, CAEPHT, Ranipool, Sikkim during 27-29 December, 2021 as Training Coordinator. 		
5. Ms. Mayan Victoria De Assistant Pr	glambam vi rofessor MTTC & VTC, COH, CAU, Bermiok, Sikkim	 Organized three Days National Webinar on "Sustaining Organic Farming During and Post- COVID-19" from 3rd August to 5th August 2020 as member. Two days Off-campus training on "Integrated Crop Management Approaches Under Organic Production Systems" at Assam Lingzey, East Sikkim during 8-9 December, 2020 as co- cordinator. Two days Farmers' training on "Nursery Management of Cole Crops Under Protected Cultivation" at CAEPHT, CAU(I), Ranipool, East Sikkim, Sikkim during 18-19 December, 2020 as co-cordinator. Two days Off-campus training on "Mushroom Cultivation with Its Value Addition and Marketing Under Sikkim Condition" at Padamchey, East Sikkim, Sikkim during 15-16 January, 2021 as co-cordinator. One Day Off-Campus Awareness Programme on "Different Methods of Compost and Media Preparation for Protected Cultivation" at Assam Lingzey, East Sikkim on 23 January 2021 as co- cordinator. 	06.06.2020 to till date	6 months

	• One Day Off-Campus Awareness Programme	
	on "Ialland a low cost water conserving	
	tochnique for hilly regions" at Assam Lingzov	
	E (Sill: 4 E 1 2021	
	East Sikkim on 4 February 2021 as co-	
	cordinator.	
	• Three days Hands on training programme on	
	"Improved Composting Methods" sponsored by	
	ICAR – NIBSM as co-cordinator.	
	• Three days on-campus training on "Value	
	addition of horticultural crops" at MTTC &	
	VTC, CAEPHT, Ranipool, Sikkim as co-	
	coordinator	
	• Three days off-campus training on	
	"Entrepreneurial Skill Development for	
	Entrepreneurital Skill Development for Economic Empowerment of Dural Women" at	
	Nondole Daningol Sildim as Coordinator	
	Nandok, Kampool, Sikkim as Coordinator	
	• Infee days on-campus training on Mushroom	
	Technology at MITC &VIC, CAEPHI,	
	Ranipool, Sikkim as co-coordinator.	
	• 6-week long training programmmes under Van-	
	Dhan Yojana- Entrepreneurship and Skill	
	Development Programme (PMVDY-ESDP)	
	(total 18 nos. of training of six weeks each)	
	sponsored by TRIFED (Coordinator and co-	
	coordinator) at four districts of Sikkim during	
	2021-2022	
	• Organised Method demonstration on	
	Propagation Techniques on Horticultural Crops	
	at Samlik Marchak during 10 th Oct 2022 as co-	
	coordinator	
	• 'Skill Training of Rural Vouth on IPM in	
	- Skin framing of Kulai Found on IFW III Horticultural Crops' at COU Downiak on 14th	
	10 th New 2022 as Co. Coordinator	
	19 INOV, 2022 as Co-Coordinator	
	• Iraining on 'Pest and Diseases Management of	

 Vegetatistic during 28 -50, 100v, 2022 as Cor- Coordinator. Training on 'Recent Organic Cultivation Technology in Horticultural Crops, during 30th Nov-2^{ard} Dec, 2022 Co-Coordinator. As a resource person in two days off-campus training programme on 'Integrated crop management approaches under organic production systems, 2020 As a resource person in two days online skill development training on gender analysis skills for agriculture and allied sectors. As resource person on 'Skill development for strengthening of rural livelihood security' during 9-11th March, 2021. As a resource person on 'Sdays training program on Organic crop production technology in hilly region for B.Sc students of Greenlands school of Agriculture, Kurnool, at ICAR Tadong during 15-22nd February, 2022. As a resource person in the training programme on 'Post harvest management and value addition of horticultural crops' on 23rd August, 2022. As a resource person in the training programme on 'Women in Agriculture: Gender friendly 	
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ANNEXURE II

College of Horticulture, Bermiok, Sikkim

Sl. No.	Name and designation	Award/ recognition/certificate
1.	Dr. Diggangana Talukdar Assistant Professor	 Merit award on poster presentation – 2013 Second prize in oral presentation – 2014 Best poster award- 2016 Nominated for Prof. M.J. Narasimhan Merit Academic Award- 2016
		 Young Scientist award ICFA – 2018 Young Scientist Awardn NEE congress - 2018
2.	Dr. Dipika Sarmah Assistant Professor	 Assam Agricultural University under- graduate merit scholarship (2006-2010) Assam Agricultural University Post-graduate merit scholarship (2010-2012) Second prize poster presentation - 2013
3.	Dr. Pukhram Bhumita Assistant Professor	 Central Agricultural University merit Scholarship (2008 -10) BCKV, University Research Fellowship (2011- 2014) Second prize in Shashya suraksha yuva pratibha award- 2016 Eminent scientist award-2018 Young entomologist award-2020 Third Prize in Oral presentation- 2020
4.	Dr. Sapam Rajesh kumar Singh Assistant Professor	 ICAR-NTS scholarship- 2006 Jawaharlal Nehru Memorial Fund scholarship for Doctoral studies-2016
5.	Dr. Haobijam Sanjita Devi Assistant Professor	 CSIR-UGC-JRF Fellowship CSIR-JRF Fellowship

Sl. No.	Name and designation	Award/recognition/certificate (Year)
1.	Dr. Diana Sagolsem	• Assam Agricultural University under- graduate merit scholarship (2005-2009)
	Assistant Prof.	• Departmental topper post-graduate Merit scholarship of CAU (2009-2011)
		• Awarded Young Women Scientist Award in 2021
2.	Dr. Yumlembam Rupert	Bidhan Chandra Krishi Viswavidyalaya Research Scholarship during PhD- 2012-2015
	Anand, Assistant Prof.	
3.	Dr. Sunil Kumar	• NEC Stipend and Book Grant by Directorate of University and Higher Studies, Government
	Chongtham, Assistant	of Manipur during 2009-2010
	Prof.	• Merit certificate in M.Sc (Agronomy) degree programme during 2010
		• UGC-BHU Ph.D Fellowship (Agronomy) in 2010
		ICAR-SRF (PGS) Fellowship (Agronomy & Agricultural Meteorology) in 2012
		• Young Scientist Award in 2020
4.	Dr. S. Vinodh	Vallalar Endowment Award -2007
	Assistant Prof.	The Srilochani Varadarajulu Gold Medal Award for master's degree -2008
		• ICAR–SRF(PGS) 2010 for full Time Ph. D students
		• INSPIRE Fellowship – 2010 (2009 -12)
		• Best Poster Award -2013
		Best Young Scientist Award- 2016
		 Post-Doctoral Fellowship -2015-2019
		Best Poster Award 2021

Multi Technology Testing Centre and Vocational Training Centre (MTTC & VTC), COH, Bermiok, Sikkim

		Young Horticulturist Award 2021
		• Best Popular Article (Third Position) 2022
5.	Ms. Mayanglambam	Best paper presentation- Indian Society of Agricultural Economics 2017
	Victoria Devi	• Best paper presentation, Indian Society of Extension Education- 2017
	Assistant Prof.	• Best oral presentation, ICAR North Eastern Hill Region, Umiam- 2019.
		• Full Term Doctoral Fellowship (2019) of Indian Council of Social Science Research (ICSSR),
		New Delhi.
		• Best Research project in East zone Inter University students Research Convention, 2019-20.

Annexure III



Fig.1: Student interactive session with the newly joined Dean, Dr. A.K. Pandey, COH, Bermiok, Sikkim, 9th June, 2022

Recent activities of College of Horticulture, Bermiok, Sikkim





Fig.2: Glimpse of the 3rd Annual College Week of College of Horticultue, Bermiok, Sikkim from 3rd December to 9th December, 2022



Fig.3: Cleanliness and Plantation Drive organised by NSS unit of COH, Bermiok, Sikkim on 12.11.2022



Fig.4: Celebration of National Farmer's Day at COH, Bermiok, Sikkim on 23.12.2022



Fig.5: Hoarding of Anti Ragging display at Boys and Girls Hostel of COH, Bermiok, Sikkim



Fig.6: Glimpse of the Study Tour programme from 11th July to 12th July 2022 of the 4th year students of COH, Bermiok, Sikkim



Fig.7: RHWE programme of COH students for the academic session 2022-23





Fig.8: Glimpse of the input distribution by MTTC & VTC, COH, Sikkim to the farmers sponsored by ICAR-NIBSM and AICRP-RM



Fig.9: Glimpse of the Three days training programme conducted by MTTC & VTC, COH, Bermiok during 30.11.2022 to 02.12.2022



Fig.10: Six days training programme conducted by MTTC &VTC, COH, Bermiok, Sikkim from 14th November, 2022 to 19th November, 2022



Fig.11: Interface meeting for formation of FPOs by MTTC & VTC, COH, Bermiok, Sikkim on 23rd November, 2022



Fig.12: Cleanliness drive of citrus orchard on 23rd December, 2022 at COH, Bermiok, Sikkim



Fig.13: State level workshop on Orange cultivation in Sikkim and Citrus Show at COH, Bermiok, Sikkim on 29th November, 2022



Fig.14: Invited lecture by Dr. Rajesh Kumar Pandey, Assistant Professor, Bundelkhand University, Jhansi on the topic "Integrated Disease Management of Horticultural Crops" on 26th December 2022



Fig.15: Motivational Talk and Interactive session by Shri. Manish Kumar, IPS, SP, South Sikkim at COH, Bermiok, Sikkim



Fig.16: Invited lecture by Dr. S.K. Malik, Principal Scientist, NBPGR on "Need and Importance on conservation of eroding landraces, wild species and other potential genetic resources of North East India" on 17.10.2022



Fig.17: Three Days training programme conducted by MTTC & VTC, COH, Sikkim on "Pest and Disease management of vegetables" from 28th November to 30th November, 2022 sponsored by ICAR, NIBSM



Fig.18: Celebration of Kavi Shri Subramanya Bharathi on his 100th Shraddanjali at COH, Bermiok, Sikkim



Fig.19: Celebration of Hindi Pakhwada at COH, Bermiok, Sikkim from 14th September to 29th September, 2022



Fig.20: Celebration of Vishwakarma Puja on 17th September, 2022



Fig.21: Celebration of World Bamboo Day on 18th September, 2022



Fig.22: Visit of Dr A.K. Mishra, Deputy Director of Research, CAU, Imphal and his audit Team at college campus on 4th July, 2022





Fig.23: Celebration of World Soil Day on 5th December, 2022

Annexure IV

Excerpts of the newspaper for the activities conducted at College of Horticulture, Bermiok, Sikkim



Anamika Rai gets high rank in ICAR JRF 2021-22 exam



SE Merpuet GANCTON, November 221 Sikkim girl Anamika Rai has secored all fields renk of 25 November 2021 (22) CAR JRF Eisen 2021 (22) Gana, Nametley bong inder Pakyong district, Sib Gana, Nametley bong inder Pakyong district, Sib Pathone Teom College of Hortesulture Teom College of Hortesulture Line College of Hortesulture Line College of Hortesulture Line College of Hortesulture College of Hortesulture Merrise in 2021 (22) Berniski in 2021 (22) Berni in 2021 (22) Berniski in 20)

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 Girl's NCC, Namehi as the guest of bonou.
 dignitaries, staff, and students
 the winners were felic guest of bonou.

 CANCTOK, December 10; A valadictory programme of additional SP Ankar Ankush.
 Also present were felic guarating secretary Dr. Diplet The programme of additional SP Ankar Ankush.
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 College of Horrisulture (COH), Central Agricultural Brenick on Shurday.
 SHO Anapa Gurme, SPS.
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 Budhi Maya Limbo, declaration of the or seven-day long College set.
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 Dr. M. Victoria 1

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Bactrocera fruit fly management programme at COH



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Express kimexpress.com

PRESS, TUESDAY, 06 DECEMBER, 2022, GANGTOK

COH Bermiok observes

SEREDUCT SEREDUCT SANGTOK, December 5, College of Horriculrung World Soil Day with the them of Soils Where Food maintaining health eccession the aim is to raise maintaining health eccession maintenance of soil Agrit head from the the form the form the the the the termile on poeting the maintenance of soil agrit the form the the maintenance of soil Agrit the the the the maintenance of soil agrit the form the the termile on poeting the maintenance of the termile on the the termile on termile on the termile on the termile on termile on the termile on termile on the termile on the termile on termile on the termile on termile on termile on the termile on t

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COH dean Dr. A.K. COH dean Dr. A.K. Pandey discussed about the internet of the second second maintenance of soil for the maintenance of soil for the pandey different soil for maintenance of soil for the pand getting optimal phe different soil heading phe different soil heading programmes of soil and soil heading programmes of soil and soil heading return to soil the soil heading phe different soil heading phe different soil heading phe different soil heading the different soil heading theading theading the different soil heading



Training-cum-demonstration on recent organic production technology in horticultural crops

SE Report

GANGTOK, December 2: A three-day off-campus hands-on training on rescent organic production technology in organized by Multi organized by Multi Technology Testing Centre and Vocational Training Centre, College of Horticulture, Berniok, and sponsored by ICAR. NIBSM, Raipur ander NEH components through Directorate of Extension Education, Central Agricultural University, Imphal from University, Imphal from Education, Central Agricultural University, Imphal from Marking Village in Namchi district. Twenty-five farmers from and around Pabong and six RAWE students from Coll, Berniok participated in the training programme, Informs a pressore GANGTOK, December 2: A



Directorate of Extension Education, Central Agricultural University, Imphal from November 30 to December at Pabong village and Around Pabong and in mod around Pabong and in the minick sami nanager Raju Pradhan delivered gave an werkiew of natural famming in started with a lecture on us Sikkm. The aftercono session RAWE students from Cold, Bernick Narmick Sami Kales and Extension The programme was chained by Bernick Narmi Kales and Dr. Marching on Professor Dr V. Rupert Anand Chained by Bernick Narmi Kales and Dr. Martes the chief guest were held with a lecture on assistant professors Dr. M. Victoria Devi from and started with a lecture on sistent professor Dr V. Rupert Anand Diplick Sammah and Dr. N. M. Victoria Devi from Verein held with a lecture on programme, technology of Tower erop were held with a lecture on technology of Tower erop and the project associata horricultural erops by Dr.S.

SIKKIM EXPRESS

College of Horticulture celebrates annual college week

SE Report GANGTOK, December 3: GANGTON, December 3: The 3rd annual College Week celebration of College of Horticulture, Bernick was inaugurated by Aslal Pradhar, former Indian boxer and Arjuna Awardee, Ioday. Jaslal Pradhan was present as the chief guest of the programme and panchayat president Sanki Bhutia the president Sanki Brutta the guest of honour. Buchi Maya Linbo, lieutenant, 1st Sikkim Girls Battalton, NCC; Turachand Bajgai, vice president, Bermiok GPU, and Tilak Mariwara, social worker, new the survision set of form



Initk him/win, scut worker, work/h specializes, informs by all four-house-off-lecelege, sadents' life. appreciated the college's apress release. Dear Dr, A.K. Pandey, in Budhi Maya Limba growth and activities. At the outset, Jaslal kis opening, remarks, discussed the importance of The chief gaset neuronaged Pharthonisettie lecelegata highlighted he significance ON CC in national building the participants information which was followed by aprade extracuminalar activities in esercises. Tanchand Baigai the college veek-ecebrations.

SIKKIM EXPRESS

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SE Repart SE Repart CANGTOK December 24: Indonual Former' Day was telebrated at College, informs a press of the college, informs a press preference to the college, informs a press preference to the college. Dean Dr. A.K. Panders the day. Dean Dr. A.K. Pa

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SIKKIM EXPRESS

College of Horticulture celebrates Constitution Day

SE Report GANGTOK, November 26: College of Horticulture (COH), Bermiok, celebrated Constitution Day with the theme of 'Bharat: Loktantra

ki Janani' today. COH dean Dr. A.K. Pandey in his address i highlighted the significance of highlighted the significance of the day and the reason behind adopting the Constitution of India. He mentioned about the various facts of the constitution and



facts of the constitution and the fafter of the fafter of the fafter of the fafter of Dr. Dipika Sarmah read the Constitution Day along with faculties and staff Indian Constitution, informs the preamble of Indian celebration. The programme of the college, the release a press release.



Seminar on agro-industries

GANGTON, SEPT 8/--/An awareness programme on "Sensitization of Mobile based Agro Advisory services in Sikkim serve done awareness on Prospect of Hower production as Sikkim "was conducted at College Horticulture, Central Agricultural University (imphal), Bermiak, Sikkim darking the in and CAT implant in a different Inversity (imphal), Bermiak, Sikkim darking Services (Miagri) of MelfY (Govt. of India)



and jointly implemented by College of Agricultural Engineering and Post Harvest University (Imphal), Ranipool, East Juniversity (Imphal), Ranipool, East Pool, State (Internet Internet), Ranipool, State Reference and Students attended the former son the state of the state of the state of the state Reference and students attended the Reference attended the Reference attended

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SIKKIM EXPRESS

Cleanliness, plantation drive at COH SE Report

GANGTOK, November 12: GANGTOK, November 12: The NSS unit of College of Horicollure (COH), Berninko organisel at Calenkines and plantation drive under Swaccha Bharat Abijaon it college campus as purt of regular NSS activities. The drive usai fed by COH dem Dr. A. N. Pandey and lin-change student wolfne officer Dr. Diplas Sammah, informs a press sectore.

Sector and a sector of Dr. Dradas Sarman, Interns a Dr. Paulog suid Swachh of this programme was to Bharat Abhisan is Islalia's pronote awareness about hostel and removed the of the campus. The B. Se largest Charlines africe, shall aims to make findia more sustainable and eco-friendilse. The Volumeer-Cleaned the approach road from Girls Apart from Cleanines, and the release for Hving. The main purpose Hostel, administrative-counse different from and the release for Hving. The main purpose hostel, administrative-counse different from and the more than the road from Girls Apart from Cleanines, methods, and the release for Hving. The main purpose hostel, administrative-counse different from and the more than the more than the road from Girls Apart from Cleanines, methods, and the release for Hving. The main purpose hostel, administrative-counse different from and the more than the methods.

SIKKIM EXPRESS



GANGTOK, October 13: The College of Hortieulture (COld, Berniok under Central (COld, Berniok under Central ing programme on conducted an awareness-cum-training programme on 'Scientific Bee kceping' at Oregonical Silkim on Wedgendubay. South Silkim on

Scientific Bee keeping' at Owalandhana South Sikkin oo Walandhana South Sikkin oo The programme was coordinated by Coll assistant potessor (Entomology) Dre participation of 30 individuals, informs a press release. To be the segre room Chice to be a segre room Chetted expressed his profound gratitude towards the college for conducting training-cum-awarenees programme and

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shared his experience on bee errors. When the the second s

Bermiok College of Horticulture celebrates Gandhi Jayanti



SE Report GANGTOK, October 2: College of Horticulture (COH), Bermiok organized an event to commemorate the 153rd birth anniversary of Malamia Gandhi a COH dean Dr. A. K. Pandey led the programme by hoisting national flag and paid to birthe to Mahatma Gandhi. Dr. Pandey highlighting Gandhil's principles of furth peece and non-violence urged follow the ideals of Mahatma Gandhi.



As the day also marked the pirth aminory also marked the prime Minister Lal Bahadur Shastri, the dean recalled his slogan Jai Jawan, Jai Kishar'. On the occasion, COII daylong eleanliness drive under Sawaechh Bharat Abhiyan at college campus. The programme was and SwO Dr. Dipika Sharma, and SwO Dr. Dipika Sharma, and SwO Dr. Dipika Sharma, assistant professor (Fruit Science) Dr. Yamuna Pandey and assistant phumita and assistant bi Dr. Dipika Sharma, and Swo Dipika Sharma, and Swo Dipika Sharma, and Swo Sharma,

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College of Horticulture celebrates World Food Day



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Hindi Pakhwada celebration concludes at Bermiok horticulture college





SE Report GANCTOK, September 29: The 15-day Hindi Pakiwada colleded today. Formick Fiducation joint director Bhaskar Prasad Deviduura Prasad Deviduur

during Hindi Pakhwara

बागवानी महाविद्यालय ने किया हिन्दी दिवस का आयोजन



अनुगामिनी का.सं.

वार्मिक सिकिम द्वारा 14 सितम्बर को हिन्दी दिवस का कार्यक्रम में अध्यक्ष ने हिन्दी भाषा की दशा-दिशा के सफलतापूर्वक संपन्न हुआ।

ऊपर प्रकाश डाला जबकि सुश्री नीलम सिंह और अरुण गंगटोक, 14 सितम्बर । बागवानी महाविद्यालय 🚽 लामा द्वारा भी हिन्दी के विकास पर प्रकाश डाला ।

विद्यार्थियों द्वारा हिन्दी सहगान तथा सोनक मजुमदार आयोजन किया गया। कार्यक्रम के मुख्य अध्यक्ष डॉं द्वारा हिन्दी भाषा के प्रति विचार रखा गया कार्यक्रम अजय कुमार पाण्डेय तथा मुख्य अतिथि सुश्री नीलम 🛛 का संचालन डॉ दीपिका शर्मा द्वारा किया गया और सिंह (मंजुश्री पब्लिक स्कूल) उनके साथ श्री अरुण 🛛 धन्यवाद ज्ञापन डॉ विक्टोरिया देवी के द्वारा किया गया। लामा (मंजुश्री पब्लिक स्कूल) भी उपस्थित थे। इस प्रकार हिन्दी दिवस बागवानी महाविद्यालयमें



अनुगामिनी का.सं.

गंगटोक, 27 सितम्बर । बागवानी महाविद्यालय वार्मिक सिक्रिम को ओर से आज हिन्दी कार्यशाला का आयोजन किया गया। कार्यक्रम के मुख्य अध्यक्ष डॉ अजय कुमार पाण्डेय तथा मुख्य अतिथि श्री अमित पात्रो (संपादक सिक्रिम एक्सप्रेस) उनके साथ विशिष्ट अतिथि श्री पदीप त्रिपाटी (हिन्दी के सहायक अध्यापक. सिक्रिम विश्ववविद्यलय) भी उपस्थित थे। कार्यक्रम को शुरुआत विद्यार्थियों के द्वारा देशभक्ति गीत से की गई।

कार्यक्रम में अध्यक्ष की ओर से कृषि अनुसंधान में हिन्दी भाषा के महत्त्व पर प्रकाश डाला गया जबकि श्री प्रदीप त्रिपाठी ने भी हिन्दी के विकास पर प्रकाश डाला। विद्यार्थियों द्वारा हिन्दी एवं अंग्रेजी भाषा में

SIKKIM EXPRESS

वाद विवाद प्रतियोगिता तथा सोनक मजुमदार द्वारा हिंदी कविता पाठ रखा गया। वाद विवाद प्रतियोगिता का विषय जैविक खेती की उपयोगिता एवं चुनौतियों थी। प्रतिभागियों ने जहां जैविक खेती के महत्व पर प्रकाश डाला वहीं उसकी चुनौतियों पर भी अनुसंधान की प्राथनिकताओं पर बल दिया।

मुख्य अतिथि श्री अमित पात्रो ने अपने सम्बोधन में कहा को कृषि अनुसंधान की उपलब्धियों को हिन्दी भाषा के माध्यम से किसानों तक पहुंचाने में काफी मद मिलेगी।

कार्यक्रम का संचालन डॉ दीपिका शर्मा दारा किया गया और धन्यवाद ज्ञापन डॉ यमुना पांडेय के द्वारा किया गया। इस प्रकार हिन्दी कार्यशाला वागवानी महाविद्यालय में सफलतापूर्वक संपन्न हुआ।

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Bermiok horticulture college celebrates Hindi Pakhwada

 Celebrates Hind, Pakknwada

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 Tripathi as the guest of horour, informs a press
 dissemination of research horour, informs a press

 CANGTOK, September 27
 Tripathi as the guest of horour, informs a press
 dissemination of research horour, informs a press

 September 14 to spread wareness about the ollege organised - Wind auguage.
 Today on the 13^h day, the college organised - Wind september 14 to spread wareness
 Today on the 13^h day, the college organised - Wind so the effective made by the college organised - Wind said staft Indid will prove said that Hindi will prove most effective language for most effective language for
 Dr. Pandey, dean, COL, importance of Hindi anguages

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 off Hindi will prove said that Findi will prove
 Dr. Pandey, dean, COL, importance of Hindi anguages
SIKKIM EXPRESS

Training on pests and diseases management of vegetables concludes

SE Report GANGTOK, November 30: The training on pests and diseases management of vegetables was held at Multi Technology Testing Centre and Vocational Training Centre of College of Horticulture,



Rajesh Sapam spoke about the development of insect-resistant varieties as an alternative to pesticide use. COH dean Dr. A.k.

Similarly, assistant

ofessor (Genetics and

 CAR's National Institute of Assistant professor agents in Integrated Pest Biotic Stresses Management (Horriculture) Dr. S. Vinoth Management(IPM), (VIBSM), Raipar, informs a spokebiefly about massissfor regestrelazes, weight of the second stress of the neighboaring village of Assistant professor (Plant professor (Agricultural Tokal Berniok aneaded the Protection IP V Burnet Annuel Extension ID R. Witchick Intellect the Second Sec press relaxe, Assistant professor (Plant professor (Aprice futural Tokal Bernick strateded the Protection) Dr. Y. Ruger Anand Extension) Dr. M. Victoria, training programme, the release spoke onmethods for preventing spoke about the function of mentions.

_SIKKIM EXPRESS

MTTC & VTC distributes agro-inputs and garden tools to farmers

SE Report

GANGTOK, Novemb GANGTOK, November 30: An input distribution programme was held at Chalamithang village. South Sikkim today. The programme was organised by Multi Technology. Tecting Center argunised by Mult Technology Testing Centry MTTC) & Vocational Training



TTC's Vocational Training, trre (VTC), College of ticolture, Bermiok and mored by ICAR- National titute of Biotic Stress nagement, Raipar through vestorate of Extension kation, Contral Agricultural versity, Imphal, informs a strelasa.

-dication Control Agricultural Iniversity, Implied, informs a Agrio-inputs and garden Agrio-inputs and garden coplained about the use and assistant professor Indemta, Silver, IncAgrid (House International Control International International Control International In

of vegetables like broccoli, cabbage, coriander, palak and peas, etc. suitable for organic farming. Assistant professor (Plant Agripteneurship and talk about the importance Farmer Producer Organisation Farmer (FPOs) COH dean Dr. A.K. Pan informed the farmers about scope of vegetables in the Si He assured to provide poss assistance to the farme the programme, the mentions

Statelevel interface meeting with farmers produce organizations (FPOs) by MTTC&VTCatCoH, Bermiok Tokal, South Sikkim

One day State Level inter-Sikkim. Intotal, fifteen repre-Plant Testing Centre and Voca- Dean, CoH, Bermiok Tokal ences and problems. fully conducted at CoH, programme Dr. Y. Rupert role of 7POs. Dr. J. P. pre- programme (EOIC)

GANGTOK, NOV 23/--/ Bernick Tokal, South Anand, Asst. Professor sented a lecture on FPO/ Protection), CBBO/POPLAt the end of facemeeting with FPOs on sentatives of various FPOs MTTC&V7C welcomedall the programme Dr. M. "Role of FPOs in Promotion from all overthest a reparticle the participants. After the Victoria Devi Asst. Profesof Agriculture & Allied Ac-pated in the said programme in a ugural programme, the sor (Agri, Extension) briefly tivitiesinSikkin" vasorga- Theprogramme wasat-representatives of various summarized the discussions nized by Multi Technology tended by Dr. A. K. Pandey, FPOs shared their experimate in the neeting, and Dr. S. Vinodh, Asst. Professor tional Training Centre, Col- and Dr.L.P. Shivakori, Senior Dr.A.K. Pandey, Dean, (Hort.), MTTC & VTC, lege of Horticulture, Scientist & Head, KVK CoH, delivered at alk on the thanked all the participants Bermiok Tokal, South Namhang as the President topic Harnessing the Poten- for their fruitful participa-Sikkim, today. The and Chief Gaest, respect tial of Horticulture in tionandosordination in conprogramme was success- tively. At the onset of the Sikkimand highlighted the clucting the above

Agricultural training programme



GANGTOK, OCT 10/--/Multi isonnology Tresting Centre and Vocational Training Centre, College of conducted Mothod Demonstration on conducted Mothod Demonstration on conducted Mothod Demonstration on Forticenitural Crops" at Samilis Horticenitural Crops" at Samilis Marchak, Gongtok, Kast Sikkim foday Marchak, Gongtok, Kast Sikkim foday Marchak, Gongtok, Kast Sikkim foday Marchak, Congtok, Jast Sikkim foday Marchak, Congtok, Jast Sikkim foday Marchak, Congtok, Jast Sikkim foday Directorate of Extension Education, Directorate of Extension Education, Directorate University

Central Agricultural University, imphal, Al the onset of the training Al the Dana Sapoleam, ice MTTC and VTC, briefed the andience about the objective and mandate about the centre. She also highlighted the various activities of the contre. Mrs, and Mrs. Moukumari Lepeha, Secretary, Jamuna SHG and Mrs, Sonsamkipu Lepcha, President, Surya SHG also highlighted the activities conducted by them.

Dr. S. Vinod, Assistant Profes cplained in detail about the vari-cithods of propagation. monstrated many methods to articipants like air loyering in gu oftwood cuttings on fly and cit He numericipants like air layering in gu softwood cuttings on fig and cit terminal cuttings on chrysanthen leaf propagation on jade plant; cuttings on ross

ange on fig and a cuttings on chryanth of the second second test of the second second test of the second second different teenhiques of na raisings in cole crops; its advan different teenhiques of the seving of second using protra-ma. Victoria, Assistant Pro-explained the prospects crops, D Di

Ventice on housesy of noncineatives Dr. Sunil. Kumar Chongtham Assistant Professor, highlighted the benefits or proper usage of the organit members participated in the said programme. Inputs like vegetable seeds never all post of the said benefits and every and the said among the merticipants. (SOIC) d 20 SHG the said oil, protray and roo also distributed imants. (EOIC)



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n by accretation, systemation gives talk, Sunt. Rum Rumari angle talk, Sunt. Rum Rumari angle and the importance angle and the system system that is a system system. Support the system system system the system system system and the system system system for the system system system neuror. De A to be set of the system neuror. A booklet entrified Integra vegetab the train given o part. Po of Hort farmers Tokal B

Thre vehi BARASA others in Beogal's 5 The steld limits of motor va vegetable The p the fog is admitted while re hospital. Hospital - pro on of (EOIC)

Bermiok Horticulture College celebrates National Unity Day

SE Report Prime Minister Narendra Modi in 2014 to commemorate the GANGTOK, November 1: birth anniversary of the 'Iron Man of India', Sardar Vallabhbhai Patel, who served ollege of Horticulture (COH), Bermiok celebrated National

na Pandey said Natio

nity Day or Rashtriya Ekta as the first Home minister of liwas with patriotic fervour. India after Independence, Assistant professor Dr. informs a press release. Assistant professor Dr, Y,

nity Day was introduced by Rupert Anand mentioned that



how unity in diversity plays unification of over 563 pr significant role in the society States. He said Rashtriy and the country. COH students Sonak Diwas provides an oppo-to reaffirm the inherent st

Majurndar and Devarghva Saha and resilience of our Majumdar and Devarghya Saha and resilience of our r recited the poem on unity while Tamo Pigyor sang a integrity and security patriotic song. COH dean Dr. A.K. Pandey paid tribute to Sardar proposed by Dr. Sanil I Vallabhbhai Patel for his countless efforts for the mentions.





Annexure V (Feedback forms)

College of Horticulture Central Agricultural University Bermiok-Sikkim

FEEDBACK FORM FOR TEACHER EVALUATION BY STUDENTS:

Note: The questionaire has been designed to seek feed back from the students to screngthen the quality of teaching-learning environment and to look for opportunities to improve teacher's performance in classroom engagement with students to bring excellence in teaching and learning.

Name: <u>19119, 10779, 110779, 110779, 110779</u> , 110779,		(Below Avg.) 1	(Avg.) 2	(Good) 3	(Ver ₎ ' Good) 4	(Excellent) 5
Subj	ect					
A.	Time sense					~
1.	Punctuality in the Classes.					~
2.	Regularity in taking Classes.					
3.	Students' attendance/presence in the class of teacher who us being evaluated.				~	
4.	Completed Syllabus of the course on time.			. ~		
5.	Scheduled organization of assignment, class test, quizzes and seminars.			`	~	
6.	Make alternate arrangement of class in his/her absence.					\checkmark
Sub	ect knowledge:					1
1.	Focus on Syllabus		-			
2.	Self-confidence					
3.	Communication skills		-			
4.	Conducting the classroom discussions.					~
5.	Teaching the subject matter.					V
6.	Delivery of structured lecture.					

Signature of the student:

FEEDBACK FORM FOR TEACHER EVALUATION BY STUDENTS: Note: The questionaire has been designed to seek feed back from the students to screngthen the quality of teaching-learning environment and to look for opportunities to improve teacher's performance in classroom engagement with students to bring excellence in teaching and learning.

Rati	Rating		(Avg.) 2	(Good) 3	(Veŋ [,] Good) 4	(Excellent)
Sub	ject					
A.	Time sense			•	V	
1.	Punctuality in the Classes.				1	
2.	Regularity in taking Classes.				· · · · · · · · · · · · · · · · · · ·	
3.	Students' attendance/presence in the class of teacher who us being evaluated.					
4.	Completed Syllabus of the course on time.			•	~	
5.	Scheduled organization of assignment, class test, quizzes and seminars.			`	~	
6.	Make alternate arrangement of class in his/her absence.					
Subj	ject knowledge:				1	
1.	Focus on Syllabus					
2.	Self-confidence				-	V
3.	Communication skills					V
4.	Conducting the classroom discussions.					V
5.	Teaching the subject matter.					
6.	Delivery of structured lecture.					

Signature of the student:

FEEDBACK FORM FOR TEACHER EVALUATION BY STUDENTS: Note: The questionaire has been designed to seek feed back from the students to strengthen the quality of teaching-learning environment and to look for opportunities to improve teacher's performance in classroom engagement with students to bring excellence in teaching and learning.

Name: Ommannum ray months Subject		Name: Onmanakinitating House Sub Rating		(Below Avg.) 1	(Avg.) 2	(Good) 3	(Very Good) 4	(Excellent) 5
Subject								
AT	ime sense				×			
1. P	Punctuality in the Classes.				V			
2. R	tegularity in taking Classes.				- <u></u>			
3. S	tudents' attendance/presence in he class of teacher who us being valuated.					-		
4. C	completed Syllabus of the course on ime.			·		1		
5. Se a: se	cheduled organization of ssignment, class test, quizzes and eminars.			`	~			
6. M in	lake alternate arrangement of class his/her absence.			\checkmark				
Subject	knowledge:					TV		
. Fo	ocus on Syllabus				<u> </u>	-		
. Se	lf-confidence				+ $-$			
. Co	mmunication skills							
. Co dis	nducting the classroom scussions.							
. Tea	aching the subject matter.							
De	livery of structured lecture.							

Signature of the student:

FEEDBACK FORM FOR TEACHER EVALUATION BY STUDENTS:

Note: The questionaire has been designed to seek feed back from the students to strengthen the quality of teaching-learning environment and to look for opportunities to improve teacher's performance in classroom engagement with students to bring excellence in teaching anci learning.

Name of the Teacher: Dr. H. Sanjita Devi Class: Art Yeun Session: Semester: 111

Ratir	Rating>		(Avg.) 2	(Good) 3	(Ver ₎ ' Good) 4	(Excellent) 5
Subj	ect					
Α.	Time sense					
1.	Punctuality in the Classes.					~
2.	Regularity in taking Classes.					~
3.	Students' attendance/presence in the class of teacher who us being evaluated.				~	
4.	Completed Syllabus of the course on time.			•		~
5.	Scheduled organization of assignment, class test, quizzes and seminars.			`	~	
6.	Make alternate arrangement of class in his/her absence.			\checkmark		
Sub	ject knowledge:					
1.	Focus on Syllabus			_	~	
2.	Self-confidence				~	1
3.	Communication skills					\checkmark
4.	Conducting the classroom discussions.					\checkmark
5.	Teaching the subject matter.		*		÷	
6.	Delivery of structured lecture.					

Sign ture of the student:

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FEEDBACK FORM FOR TEACHER EVALUATION BY STUDENTS:

Note: The questionaire has been designed to seek feed back from the students to strengthen the quality of teaching-learning environment and to look for opportunities to improve teacher's performance in classroom engagement with students to bring excellence in teaching and learning.

Name of the Teacher: A. B. Shungh

Rat	ing>	(Below Avg.)	(Avg.) 2	(Good) 3	'(Very' Good) 4	(Excellent) 5
Sut	ject	-				
А.	Time sense					
L.	Punctuality in the Classes.				~	
	Regularity in taking Classes.				V	
•	Students' attendance/presence in the class of teacher who us being evaluated.				/	
11	Completed Syllabus of the course on time.			•	~	
	Scheduled organization of assignment, class test, quizzes and seminars.			``	~	
	Make alternate arrangement of class in his/her absence.				~	
ıb	ject knowledge:					
3	Focus on Syllabus					
	Self-confidence					
	Communication skills				1	
	Conducting the classroom discussions.				~	
	Teaching the subject matter.					
	Delivery of structured lecture.					1

APhaha Signature of the student:

FEEDBACK FORM FOR TEACHER EVALUATION BY STUDENTS:

Note: The questionaire has been designed to seek feed back from the students to strengthen the quality of teaching-learning environment and to look for opportunities to improve teacher's performance in classroom engagement with students to bring excellence in teaching and learning.

Name of the Teacher: DR. P. Bhumita

..... Semester: Session :..... Class: ..

Rat	ating>		(Avg.) 2	(Good) 3	(Very Good) 4	(Excellent) 5
Sut	pject					
A.	Time sense	5				~
1.	Punctuality in the Classes.					~
2.	Regularity in taking Classes.				~	
3.	Students' attendance/presence in the class of teacher who us being evaluated.				\checkmark	
4.	Completed Syllabus of the course on time.			-		_
5.	Scheduled organization of assignment, class test, quizzes and seminars.			`		~
6.	Make alternate arrangement of class in his/her absence.					
Sub	ject knowledge:				590	
۱.	Focus on Syllabus	2				1
2.	Self-confidence					
١.	Communication skills				\checkmark	
•	Conducting the classroom discussions.				~	
	Teaching the subject matter.		•		+	
a	Delivery of structured lecture.					

Hitler A.

Signature of the student:

SELF STUDY REPORT for B.Tech. (Food Technology)

College of Agricultural Engineering & Post Harvest Technology, Ranipool, Sikkim

CENTRAL AGRICULTURAL UNIVERSITY, IMPHAL



SUBMITTED TO NATIONAL AGRICULTURAL EDUCATION ACCREDITATION BOARD ICAR, New Delhi

PREFACE

It is my privilege to present this Self Study Report (SSR) for accreditation of the B. Tech. (Food Technology) degree programme of the College of Agricultural Engineering and Post Harvest Technology, Ranipool, Sikkim, Central Agricultural University, Imphal, Manipur. This exercise has provided us an opportunity to review and analyze the institutional progress in the last five years and strengthened us in our quest for the quality. A steering committee consisting of a few senior faculty members was setup. Regular meetings were held with the entire stake holder *viz.*, the faculty, University authorities, students and parents to review the report. Meetings were also held with the Heads of the Departments to discuss the details of the Departmental profiles. The process of preparation of the SSR was a happy journey towards the desired destination. The preparation of SSR is not a single men's effort, rather a team effort.

The College of Agricultural Engineering and Post Harvest Technology (CAEPHT) was established in May 2006 by Central Agricultural University (CAU), Imphal at Ranipool, Gangtok Sikkim, keeping in view, the high potential of applications of agricultural engineering and post-harvest technological interventions in improving the agricultural scenario of NEH region. Initially to address the issues of shortage of trained human resource in agricultural engineering, B. Tech. (Agricultural Engineering) programme was started at the time of establishment in 2006. Later to address the issue of shortage of human resource in Post harvest technology or Food Technology, B. Tech. (Food Process Engineering) programme was started in 2010 and renamed to B. Tech. (Food Technology) to meet ICAR guidelines.

The college is equipped with the best infrastructure and equipment, which has been instrumental in creating the awesome credibility. The College of Agricultural Engineering and Post Harvest Technology alumni are absorbed in different national and multi-national institutes. We believe that having established our credentials in the field of agricultural engineering and food technology education, we need to take our commitment forward through introducing newer and higher avenues for the budding agricultural engineering and food technology students. Our aim is to imbibe the good work practices as well as research culture and professional attitude amongst the student fraternity to make them able and competent to contribute to the ultimate goal of having sustainable agriculture. Students of this college have excelled not only in curriculum but also in extracurricular activities and national level competitive examinations and the college is making continuous efforts to improve the quality of education offered here.

This self study report is the collective effort of the university authority, staffs (both teaching and non-teaching) and students. I deeply appreciate the deep involvement and painstaking cooperative efforts of the entire team who have extended whole hearted support in the preparation of this Self Study Report. I am very grateful to the worthy Vice-Chancellor for providing his valuable guidance. I also express my sincere thanks to the Director Instruction, CAU, Imphal, Manipur for compilation of SSR and other officers of the University, HODs, faculty members and students and especially to the members of the Steering Committee. Last but not the least I wish thanks to all those who directly or indirectly supported/helped me/us in preparing the self study report.

I am very much keen to meet the Team of Accreditation during their forthcoming visit to our institution. Such occasion and interaction provides all of us; University authority, faculty members, supporting staff, students and other stake holders to enrich ourselves with their comments and suggestions.

We are eagerly looking forward to welcome the ICAR Peer Review Team and hope they will applaud us for our efforts.

With thanks and greetings.

Narro

(N.S. Chauhan) Dean

Sl. No.	Title
1.	Brief History of the Degree Programme
2.	Faculty Strength
3.	Technical and Supporting Staff
4.	Classrooms and Laboratories
5.	Conduct of Practical and Hands-on-Training
б.	Feedback of stakeholders (Students, parents, industries, employers, farmers etc.)
7.	Student intake and attrition in the programme for last five years
8.	ICT Application and Curricula Delivery
9.	Certificate

CONTENT

6.4. SELF STUDY REPORT FOR B. TECH. (FOOD TECHNOLOGY) PROGRAMME

The College of Agricultural Engineering and Post Harvest Technology (CAEPHT) at Ranipool, Gangtok, Sikkim was established on 20th May, 2006 by Central Agricultural University (CAU), Imphal. In the first batch, 20 students were admitted in B.Tech. (Agril. Engg.) Programme, at the time of establishment in 2006. Whereas, first admission for B. Tech. (Food Process Engineering) was made in 2010 and passed out in 2014. The degree programme was later renamed as B. Tech. (Food Technology). The college has marched ahead to offer two B.Tech. (Agri. Engg. & Food Tech.), five M.Tech. (Farm Machinery & Power Engineering, Soil & Water Engineering, Processing & Food Engineering, Irrigation and Drainage Engineering and Renewable Energy Engineering) and three PhD (Farm Machinery & Power Engineering, Soil & Water Engineering and Processing & Food Engineering) degree programmes. The College has a good infrastructure with well-equipped laboratories and a well laid out farm spread over an area of 7.71 ha. The College of Agriculture Engineering and Post Harvest Technology at Ranipool has registered tremendous progress since its inception till now in terms of generation of innovative technologies, human resource development, teaching, research methodology and infrastructure facilities

6.4.1 Brief History of the Degree Programme

During the initial stages of the college, it was felt to develop human resource in the area of Food Technology along with Agricultural Engineering for NEH. Thus, a new Degree Programme was initiated as B.Tech in Food Process Engineering during 2010 with 19 students. As per the ICAR Policy, this Degree Programme was renamed as B.Tech in Food Technology during 2012 and this programme is running since then.

Objectives of UG Programme:

- To establish and develop excellent academic facilities for offering undergraduate in discipline of Food Technology to various states of NEH region in particular and country in general.
- To impart quality education so as to produce globally competitive graduates in areas of Food Technology including inter disciplinary area so that confident and capable human resource, suitable for working as scientists, academics, managers, entrepreneurs etc., could be developed.
- 3. To establish specialized research laboratories fitted with state of art machineries equipment and instruments for taking up basic and applied research by the

scientists/teachers and post-graduate students and experiential learning facilities including pilot plants for 'hands – on training' of undergraduate students.

At B. Tech level, students are admitted through nominations from North- eastern States of India except Assam and all India basis through ICAR quota. The quota of various States is fixed. The State Governments recommend students (on the basis of competitive examinations within their state) for admission. Similarly ICAR nominate (on the basis of all India competitive examination) students for their quota.

In College of Agriculture Engineering and Post Harvest Technology, Ranipool, admissions in under graduate programme i.e. B. Tech. (Food Technology) is made every year. Based on the academic performance of the final year students, Gold Medal is awarded to a student having highest OGPA in the degree programme every year.

- Mr. Vishal Kumar received gold medal at University level for securing highest grade at UG level and also selected as Graduate Agriculture trainee at Zydus Healthcare Ltd.
- Miss. Tamoha Sur, B.Tech (Food Tech.) received the 1st prize in poster making competition at national productivity week 2019 which was organized under the theme of "Circular Economy for Productivity & Sustainability" at CAEPHT.
- Several students got admission at National and International Institute like IITs, IIMs, NITs, CFTRI, NIFTEM and other central universities.
- Number of students has also received several fellowships. The intake capacity, number of students admitted, number of students graduated, and number of fellowship received by the students in various academic years are given in following two tables.

Sl. No.	Year	Intake capacity	No. of Students Admitted	No. of Students Graduated	No. of Students receiving NTS during the academic year (First year to final year)	No. of Students receiving Univ. Merit Scholarship/ Univ. Institutional Fellowship	Any other Scholarships during the academic year (First year to final year)
1.	2015-16	20	09	05	12	03	-
2.	2016-17	20	09	07	03	02	-
3.	2017-18	19	09	09	03	02	9, State
							Scholarship
4.	2018-19	19	09	06	05	03	02, Ishan Uday
							(UGC)
							9, State
							Scholarship
5.	2019-20	22	10	10	04	04	02, Ishan Uday
							(UGC)
							02, State
							Scholarship
6.	2020-21	22	07	05	04	02	03, Ishan Uday
							(UGC)
							04 NSP

The total number of students of B. Tech. in Food Technology available during various academic years is given below.

Year	1 st	2 nd	3 rd	4 th	Total no of	Total
					student	scholarship
2015-16	14	06	09	07	36	15
2016-17	09	11	06	09	35	05
2017-18	10	6	10	6	32	14
2018-19	09	10	06	10	35	19

2019-20	12	07	09	05	33	12
2020-21	9	10	07	09	35	

6.4.2 Faculty Strength

College of Agricultural Engineering and Post Harvest Technology (CAEPHT) offers B. Tech Food Technology degree program in addition to B. Tech Agricultural Engineering program.

The details of faculty directly involved in teaching of B. Tech. (Food Technology) are given in following Table.

S.	Position	Sanctioned	Faculty in	Vacant	Faculty
No.		faculty	place	Position	recommended by the
					ICAR/UGC/VCI/oth
					er regulatory bodies
1.	Professor	1	1	1	5
			(contractual)		
2.	Associate	4	2	2	10
	Professor				
3.	Assistant	24	23	1	31
	Professor				
4.	Guest	-	7	-	
	Faculty				

Information regarding faculties, their qualification and various courses of B. Tech.

(Food Technology) Programme

Department	()	Since 2015 to 2021)	
	Subject	Taught by	Qualification
Food Process	Fundamentals of Food	Dr. B. K. Singh (Assistant	Ph. D.
Technology	Processing	Professor)	
_ ••••••••••••	Processing Technology	Dr. (Late) A. I. Singh	Ph.D
	of Cereals	(Assistant Professor)	
		Dr. R. P. Misra (Professor)	Ph.D
		On Contract	
	Processing Technology	Dr. (Late) A. I. Singh	Ph.D
	of Legumes and Oilseeds	(Assistant Professor)	

	Dr. Rakesh Kumar Raigar (Assistant Professor)	Ph.D
Processing Technology of Fruits and Vegetables	Dr. Sujata Jena (Associate Professor)	Ph.D
Processing Technology of Liquid Milk	Dr. R. K. Raigar (Assistant Professor)	Ph.D
Processing Technology of Dairy Products	Dr. R. K. Raigar (Assistant Professor)	Ph.D
Processing Technology of Beverages	Dr. Meinam Chanchan (Assistant Professor)	Ph.D
	Dr. Sujata Jena (Associate Professor)	Ph.D
Processing of Spices and Plantation Crops	Dr. Meinam Chanchan (Assistant Professor)	Ph.D
	Dr. Sujata Jena (Associate Professor)	Ph.D
	Dr. Sujata Upadhyay, Guest	Ph.D
Processing of Meat and Poultry Products	Dr. B. K. Singh (Assistant Professor)	Ph.D
Processing of Fish and Marine Products	Dr. B. K. Singh (Assistant Professor)	Ph.D
Bakery, Confectionery and Snack Products	Dr. Said P. P. (Assistant Professor)	Ph.D
Food Packaging Technology and	Dr. (Late) A. I. Singh (Assistant Professor)	Ph.D
Equipment	Dr. R. K. Raigar (Assistant Professor)	Ph.D
Sensory Evaluation of Food Products	Dr. Said P. P. (Assistant Professor)	Ph.D
Fundamental of food	Dr. R. P. Misra (Professor)	Ph.D
technology	Dr. Wazid Ali Khan (Associate Professor) Guest	Ph.D
Product Development and Formulation (As per fourth Dean's	Dr. Wazid Ali Khan (Associate Professor) Guest	Ph.D.
Committee recommendation)	Er. Swati Patil, On Contract	M.Tech
Cereal Processing (As per fourth Dean's Committee	Er. Swati Patil, On Contract	M.Tech

	recommendation)		
	Processing of Milk and	Er. Swati Patil, On	M.Tech
	Milk products (As per	Contract	
	fourth Dean's		
	Committee		
	recommendation)		
	Food Processing	Er. Swati Patil, On	M.Tech
	Equipment II (As per	Contract	
	fourth Dean's		
	Committee		
	recommendation)		
	Legume and oil seeds	Er. Swati Patil, On	M.Tech
	technology (As per	Contract	
	fourth Dean's		
	Committee		
	recommendation)		
	Specialty food(As per	Er. Swati Patil, On	M.Tech
	fourth Dean's	Contract	
	Committee		
	recommendation)		
Food Safety and	General Microbiology	Dr. D. Talukdar (Assistant	Ph.D
Quality		Professor) Sister	
Quanty		Organization (COH)	
Assurance			
		Dr. S. Gurumayum	Ph.D
		(Assistant Professor)	
	Food Microbiology	Dr. D. Talukdar (Assistant	Ph.D
		Professor) Sister	
		Organization(COH)	
		Dr. S. Gurumayum	Dh D
		(Assistant Professor)	I II.D
	Industrial Microbiology	Dr. D. Talukdar (Assistant	Ph D
	industrial wherebolology	Professor) Sister	T II.D
		Organization(COH)	
		organization(COII)	
		Dr. S. Gurumayum	Ph.D
		(Assistant Professor)	
	Food Chemistry of	Dr. Said P. P. (Food	Ph.D
	Macronutrients	Technology)	
		Dr. B. Sharma (Assistant	Ph.D
		Professor)	
	Food Chemistry of	Dr. Said P. P. (Assistant	Ph D
	Micronutrients	Professor)	1 11.12

		Dr. B. Sharma (Assistant	Ph.D
		Professor)	
	Food Biochemistry and	Dr. Sudip Das (Assistant	Ph.D
	Nutrition	Professor)	
		Sister	
		Organization(COH)	
		Dr. B. Sharma (Assistant	Ph.D
		Professor)	
	Biochemistry	Dr. Y. Ranjana Devi	Ph.D.
		(Assistant Professor)	
	Food chemistry I (As per	Dr. Y. Ranjana Devi	Ph.D
	fourth Dean's	(Assistant Professor)	
	Committee		
	recommendation)		
	Food chemistry II (As	Dr. Y. Ranjana Devi	Ph.D
	per fourth Dean's	(Assistant Professor)	
	Committee		
	recommendation)		
	Food Biotechnology	Dr. Amit Rai, Guest	Ph.D
		Dr. Rai, On Contract	Ph.D
		Ms. Supriya On Contract	M. Tech.
		Dr. S. Gurumayum	Ph.D
		(Assistant Professor)	
	Food Additives and	Dr. Said P. P. (Assistant	Ph.D
	Preservatives	Professor)	
	Instrumental Techniques	Dr. Said P. P. (Assistant	Ph.D.
	in Food Analysis	Professor)	
		Dr. B. Sharma (Assistant	Ph.D
		Professor)	
	Techniques in Food Analysis	Dr. Y. Ranjana Devi	Ph.D.
	Food Plant Sanitation	Dr. B. K. Singh (Assistant Professor)	Ph.D
	Food Quality, Safety	Dr. Sujata Jena (Associate	Ph.D
	Standards and	Professor)	
	Certification		
Food Process	Food Thermodynamics	Er. N. Devrani (Assistant	Ph.D
Engineering		Professor)	
-ingineering		Dr. B. K. Singh (Assistant Professor)	Ph.D
	Fluid Mechanics	Dr. A. K. Vashisht	Ph.D
		(Associate Professor)	

		Dr. Chanchyam S. V	Dh D
		(Assistant Professor)	FII.D
	Post Harvest Engineering	Dr. (Late) A. I. Singh (Assistant Professor)	Ph.D
		Dr. Sujata Jena (Associate Professor)	Ph.D
	Heat and Mass Transfer in Food Processing	Er. N. Devrani (Assistant Professor)	Ph.D
		Dr. B. K. Singh (Assistant Professor)	Ph.D
	Unit Operations of Food Processing-I	Dr. Sujata Jena (Associate Professor) Dr. Said P. P. (Assistant Professor)	Ph.D
	Unit Operations of Food Processing-II	Dr. Said P. P. (Assistant Professor)	Ph.D
	Food Refrigeration and Cold Chain	Er. N. Devrani (Assistant Professor)	M.Tech.
		Dr. B. K. Singh (Assistant Professor)	Ph.D
	Food Storage Engineering	Dr. Sujata Jena (Associate Professor)	Ph.D
	Food Process Equipment Design	Dr. R. K. Raigar (Assistant Professor)	Ph.D
	Instrumentation and Process Control in Food Industry	Er. Rajiv Pradhan (Assistant Professor)	M.Tech
Food Business	Business management	Dr P.K. Srivastava Dean	Ph.D
Management	and Economics	Dr. A. A.Devi (Assistant Professor)	
	ICT Applications in Food Industry	Er. Rajiv Pradhan (Asst. Prof.)	M.Tech
		Er. Ph. Robart (Asst. Prof.)	M.Tech
	Marketing Management	Dr P.K Srivastava Dean	Ph.D
	and International Trade	Dr. A. A. Devi (Assistant Professor)	Ph.D
	Project Preparation and	Dr P.K Srivastava Dean	Ph.D
	Management	Dr. A. A. Devi (Assistant Professor)	Ph.D
	Communication and Soft Skills Development	Dr. D. Roy (Asst. Prof.)	Ph.D

	Entrepreneurship	Dr P.K Srivastava Dean	Ph.D
	Development	Dr. A. A. Devi (Assistant	Ph.D
		Professor)	
Food Plant	Student READY -	Dr. R. P. Misra (Professor)	Ph.D
Operations	Experiential Learning		Ph.D
-	Programme - I	Dr. Sujata Jena (Associate	Ph.D
		Professor)	Ph.D
		Dr. B. K. Singh (Assistant	Ph.D
		Professor)	Ph.D
		Dr. Said P. P. (Assistant Professor)	Ph.D
		Dr. R. K. Raigar (Assistant Professor)	Ph.D
		Dr. (Late) A. I. Singh	Ph.D
		(Assistant Professor)	
Student		Dr. R. P. Misra (Professor)	Ph.D
READY -		Dr. Sujata Jena (Associate	Ph.D
Experiential		Professor)	
Learning		Dr. B. K. Singh (Assistant	Ph.D
D U		Professor)	
Programme - II		Dr. Said P. P. (Assistant	Ph.D
		Professor)	
		Dr. R. K. Raigar (Assistant	Ph.D
		Professor)	
		Dr. (Late) A. I. Singh	Ph.D
Student DEADV		(Assistant Professor)	
Student KEAD I		Dr. R. P. Misra (Professor)	PII.D
- Research		Dr. Sujata Jena (Associate	Ph D
Project		Professor)	1 11.0
		Dr. B. K. Singh (Assistant	Ph.D
		Professor)	
		Dr. Said P. P. (Assistant	Ph.D
		Professor)	
		Dr. R. K. Raigar (Assistant	Ph.D
		Protessor)	
		Dr. (Late) A. I. Singh	Ph.D
Ctudart DEADY		(Assistant Professor)	
Student READY		Dr. K. P. Misra (Professor)	Ph.D
- Seminar	Engineering Dessing	Du C D Voder (A	
Dasic	and Graphics	Prof.)	Pn.D

Engineering		Dr. Ghanshyam S. Y.	Ph.D
		(Asst. Prof.)	
	Basic Electrical	Er. Nandita Sen (Asst.	M. Tech.
	Engineering	Prof.)	
		Mr. S. M. Kamaruzzaman	M. Tech.
		(Asst. Prof.)	
	Workshop Technology	Er. S.K. Chauhan (Asst.	M.Tech.
		Prof.)	
	and Data Structures	Er. Ph. Robart (Asst. Prof.)	M.Tech.
		Er. Rajiv Pradhan (Asst. Prof.)	M.Tech.
	Basic Electronics	Er. Rajiv Pradhan (Asst.	M.Tech.
	Engineering	Prof.)	
Basic Sciences	English Language	Dr. D. Roy (Asst. Prof.)	Ph.D
and Humanities	Engineering	Dr. Pankaj Shrivastava	Ph.D
	Mathematics-I	(Professor)	
		Guest	
		Dr. S. K. Meher (Asst.	Ph.D
		Prof.)	
	Crop Production	Dr. A. B. Sherpa (Asst.	Ph.D
	Technology	Prof.)	
	Engineering Mothematics II	Dr. Pankaj Shrivastava	Ph.D
	Wrathematics-II	Professor) Guest	Dh D
		Prof.)	FII.D
	Environmental Science	Dr. Chakpram Birendrajit	Ph.D
	and Disaster	(Asst. Prof.)	
	Management	Dr. Ph. Bhumita (Asst.	Ph.D
		Prof.) Sister Organization	
		Dr. D. Talukdar (Asst.	Ph.D
		Prof.) Sister Organization	
	Statistical Methods and	Mrs. T. Loidang Chanu	M.Sc
	Numerical Analysis	(Asst. Prof.)	

6.4.3. Technical and Supporting Staff

The position of the technical and supporting staff associated with the Degree Programme including farm and field workers including both sanctioned and in-place are given in following table.

Sl. No	Name of the Post	No. of Post (Sanctioned)	Actual Filled	Vacancy	Recommended by the ICAR/UGC/
•					VCI/ other
					regulatory bodies
1.	Research/				10
	Tech. Assistant				
2.	Office Assistant	1	0	1	05
				(Advertised)	
3.	Lab Technician	8	8		28
4.	Lab Attendant	7	7		14
5.	Horticulture	1	1		00
	Assistant				
6.	Livestock	4	4		00
	Assistant /Farm				
	Assistant				
	Total	17	17		57

Strength of Technical & Supporting Staff: Available posts and actual filled

The Technical, Supporting, Administrative and Ministerial Staffs are having responsibilities for multiple programs (B.Tech, M.Tech and Ph.D.).

6.4.4. Classrooms and Laboratories

The details about the classrooms and functional laboratories available for the degree programme are given in following Table.

Sl.	Description	Number Available	Recommended by
No.		at College*	ICAR
1.	Dean Office	01	01
2.	Main Administration Office	01	01
3.	Head of Department	05	05
4.	Dept. Admin. Office	05	05
5.	UG Smart Class Room/classroom	04	04
6.	Examination Hall	01	02
7.	Laboratories and pilot plants	21	21
8.	Seminar Room	01	01
9.	Auditorium	02	01
10.	Student welfare office	01	01
11.	Library	01	01
12.	ELP Building	01	01

13.	Canteen	01	01
14.	Hostel	04	02
15.	Workshop	01	00

Note: * All details are for the facilities used for B. Tech. (Food Tech.) in the College of Agricultural Engineering and Post Harvest Technology.

GLIMPSES OF SOME LABORATORIES AND PILOT PLANTS UTILIZED IN THE PROGRAM





Fig. Unit Operations Laboratory





Fig. Food Analytics laboratory



Fig. Heat and Mass Transfer Laboratory



Fig. Fruit and Vegetable Processing Plant





Fig. Milk & Milk product Processing Plant Fig. Ginger & Turmeric Processing Plant

Feed mixers	Vacuum Packaging Machine
Pasta Extruder	Steam Jacketed cooking kettle
• Essential Oil distillation Unit	• Butter churn
 Super critical fluid Extraction unit 	• Vacuum oven
• Rotary vacuum filter & Leaf Filter	Laboratory Pasteurizer
• Usha make Gerber Centrifuge	Laboratory homogenizer
Vacuum Tray Dryer	• Micro Pulverizer (hammer mill)
• Shrink Wrapping Machine	• Feed Block Formation Machine
• Automatic Foam Fill Seal packaging	• Food Extruder
Machine	• Multipurpose grain mill
Rubber Roll Sheller	• Foot Sealer
• Rice Whitener/Polisher	• Fermenter
Indented Cylinder Grader/ Separator	• Hand sealer
Vibratory Screen Grader	Electronics Grain Moisture Meter
• Freeze Dryer	• Hot Air Oven
• Food texture analyzer	Digital Precision Electronic Balance
Rapid visco analyzer	• Solvent Extraction Apparatus (Soxlet)
Automatic Fibre Extraction system	Microscope
Laminar Flow chamber	• Viscometer
Cottage scale soya paneer plant	• Water Activity Meter
• Milk analyzer	Spice processing plant
Headspace Gas analyzer	Ginger Processing Machine (Complete

Major Equipment in Processing & Food Engineering Department

Laboratory Spray Dryer	Unit)
Cream Separator	• Turmeric Grinder
• Chromameter	Potato Slicer
• Autoclave	• Vegetable Washing Machine
	• Complete unit of Potato Chips Machine
	• Complete Unit of Biscuits Making
	Machine
	• Complete Unit of Noodle Making
	Machine
	• Ginger Paste and Powder Making
	Machine

6.4.5. Conduct of Practical and Hands on Training

Theory and Practical batches for the Degree Programme

There are manageable number of students (Maximum 22) who are kept in one batch during Theory & Practical classes to ensure better delivery of information, encourage students' participation and active monitoring. We have been providing enough exposure to individual student for practical as well as hands on training on different instruments, machine, equipment, etc. at laboratories and at different institutions such as Sikkim University, CAU (COFT, COH), NIFTEM, Mizoram University etc. also.

Year	B. Tech. (Processing and Food Engineering)		
	Batch (Number of students in	Batch (Number of students	
	theory class)	in practical class)	
2015-16	1 (05)	1 (05)	
2016-17	1 (07)	1 (07)	
2017-18	1 (09)	1 (09)	
2018-19	1 (06)	1 (06)	
2019-20	1 (10)	1 (10)	
2020-21	1(05)	1(05)	

Sl.	Programme	Learning Outcome	Remarks		
No.					
1.	Student READY -	a) Formulation and manufacture of	Module:		
	Experiential	value added products	• Processing of Milk		
	Learning	b) Operation and maintenance of	and Milk products		
	Programme - I	processing equipment			
		c) Development of managerial			
		skills under protected			
		environment			
		d) Skill to develop Detailed Project			
		Proposal to start			
		entrepreneurship-			
		e) Registration and licensing			
		enterprise to run business			
2.	Student READY -	a) Formulation and manufacture of	Module:		
	Experiential	value added products	• Processing of Fruits		
	Learning	b) Operation and maintenance of	and vegetables		
	Programme - II	processing equipment	• Processing of		
		c) Development of managerial	bakery products		
		skills under protected			
		environment			
		d) Skill to develop Detailed Project			
		Proposal to start			
		entrepreneurship-			
		e) Registration and licensing			
		enterprise to run business			
3.	Student READY -	To aware about various types of	Student were visited at		
	Industrial Tour	industries and production	different Industries		
		processes	and institutes within		
			the country like		
			• NIRJAFT (National		
			Institute of Research		
			on Jute and Fibre		
			Technology,		

	Kolkata)
	• Thangjam Agro
	Industry Pvt.
	Ltd.(Food processing
	unit), Imphal
	• Nilkuthi Food Park
	.(Food processing
	unit), Imphal
	• Multi crop cold
	storage, Ukhrul,
	Manipur
	• Loktak Downstream
	Hydroelectric
	corporation ltd,
	Manipur
	• M/s Jain Irrigation
	Systems Ltd.
	Jalgaon, Maharashtra
	• CIRCOT (Central
	Institute for Research
	on Cotton
	Technology),
	Mumbai
	• Tractor Division
	Mahindra &
	Mahindra Ltd.,
	Worli, Mumbai
	• M/s. Sagar Feeds and
	food processing
	industry, Cuncolim,
	Goa
	• M/s Nestle India
	Ltd., Goa

			• Hindustan Foods,
			Usgaon, Ponda, Goa
4.	Student READY -	To familiarize student with	
	Research Project	research methodology, design of	
		experiments, data curation, data	
		analysis, data interpretation and	
		report writing.	
5.	Student READY -	• To improve presentation,	
	Seminar	discussion, listening,	
		argumentative skills and critical	
		thinking.	
		• To improve the confidence	
		among the individual	
6.	Student READY -		• Sikkim Milk Union
	Internship/In-Plant		Ltd., Sikkim
	Training		• Govt. Fruit
			Preservation factory
			(Sikkim Supreme),
			Sikkim
			• Zydus healthcare
			pvt. Ltd., Sikkim
			• Mehsana Dairy &
			Food Products ltd,
			Mehsana, Gujrat

Within the Country

A. Hand on training within the college

Under Student READY program in VII semester students of B. Tech (Food Technology) are being provided hands on training (**Skill Development / In-plant training**) in the following pilot plants.

- Milk & Milk Product Processing plant
- Fruit and vegetable processing plant
- Farmers Produce Processing cum Skill Development Centre
- Rice Mill
- B. Hands on training outside the college
- a) Research institute
- During 2019-20, Under Student READY program in VIII Semester students were deputed to CSIR-Central Food Technological Research Institute, Mysore (In-plant / Skill Development II for 13 weeks in Semester VIII) for working in their various research projects. During 2020-21, students undertook training at College of Agriculture Imphal, Manipur.
- ii) Under summer training programme, students used to be deputed to Institutions of higher learning and various industries. During 2015, 07 students were deputed to Indian Institute of Technology, Kharagpur, for their training.

b) Industries

Under student ready program, students were also deputed to the following industries for In-plant training in Semester VIII, related to milk processing and product development, fruits & vegetable processing and their products, spices processing and their products etc.

- Sikkim Milk Union Ltd., Sikkim
- Govt. Fruit Preservation factory (Sikkim Supreme), Sikkim
- Zydus healthcare pvt. Ltd., Sikkim
- Mehsana Dairy & Food Products ltd, Mehsana, Gujrat

Training under NAHEP-IDP PROJECT:

Mr. Rahul Patel of College of Agricultural Engineering and Post Harvest Technology Ranipool Gangtok, Sikkim India did student internship in Food Technology Division, USM Penang for duration of 3 months starting from May 2022 - July 2022.

6.4.7. Feedback of Stake Holders

The University has a system of Annual Performance of Appraisal Report (APAR) with respect of all teaching faculty. APARs are reviewed by the Deans and Directors for performance appraisal and finally approved by the Vice-Chancellor of the University. The performance of the faculty is also reviewed on the basis of their results, feedback from the students. The stakeholders' feedback on the overall performance and quality of the institutions is obtained through general meetings with parents and interaction with alumni. The teachers get informal feedback from the students based on their parents' observation and suggestions. These suggestions are conveyed to the HODs and controlling officers. Trainees, beneficiaries and guests record their feedback at respective platforms.

6.4.8. Student Intake and Attrition in the Programme For Last Five Years

The Details of student intake and attrition in the programmed or last five years are given in the following table.

State	Arunachal	Pradesh	Manipur	Meghalaya	Mizoram	Nagaland	Sikkim	Tripura	ICAR	Total
No. of students	02		04	02	02	02	03	04	03	22

State Wise Quota for B. Tech. (Food Technology)

legree	Ac	tual s la	tuder st fiv	nt adn e year	nitted rs	in	Attrition (%)					
Name of L programn	2015-16	2016 -17	2017-18	2018-19	2019-20	2020-21	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
B. Tech. (Food Tech.)	9	09	09	09	10	09	41	41	41	41	45	41

6.4.9. ICT Application in Curricula Delivery

The College has LCD projectors to deliver lectures in PowerPoint mode. The video demonstrations, animations, virtual visits were organized. The application of various software statistical, design like SPSS, Design expert, CATIA, etc. The College of Agricultural Engineering and Post-Harvest Technology (CAEPHT), under Central Agricultural University (CAU), Imphal, is well-equipped with 2 smart classrooms having facilities of Interactive whiteboards for conduction of online lectures and smart board allows projection of images, manipulation of images, dragging, clicking and copying of matter. Simultaneously, teacher is availed with facility to provide handwritten notes on board and same can be saved for later use.

The Computer Laboratory is well-equipped with 20 computers for computing facilities to all the students of the college, teaching and non-teaching staff members along with Internet connectivity. It also provides Internet facilities to all teaching staff, administrative staff and all students of the college. There are approximately more than 300 users who are availing the Internet and computing facilities. The Computer Centre supports a wide 1000 Mbps fiber optic network (OFN) that connects all the academic units, hostels, library, dispensary, residence and other central facilities to the Computer Centre. Users can use the computing resources of Computer Center from their offices, academics unit, hostels and residences. Login is provided to all the students, faculty and staff members for Internet browsing. Besides, Wi-Fi facility is provided to boys' hostel, girls' hostel, ATIC Building, guest house, dispensary, VC camp, and Dean's residence.

LAN is provided through optical fiber connection in North Academic building, South Academic building, new girls' hostel, auditorium, staff quarter, medical unit and Farmers Produce Processing cum Skill Development Centre. The network Security is provided through UTM/Firewall.

The Library provides circulation and reference services. All the in-house operations of the Library are fully computerized using the networked version of the Library software KOHA with Web OPAC facilities. The Library also has access to online e-journals through CeRA. Photocopying and printing facility is also available in the Library. Details of library are as given below: Area of Library: 2400 sq. ft. (223 sq. m.)

Table: Details of Library

Sl. No.	Particulars	Details			
		• 1 Senior Library Assistants			
1.	Present staff	• 1 Library Assistants			
		• 3 Multi-tasking Staffs			
2.	Availability of Wi-fi	Wi-fi facilities area available in the library with a band width speed of 1GBps from NIC-NKN network.			
3.	Books	7831 books			
4.	Other reading materials	National and local newspaper such as Dainik Jagran (Hindi), The Telegraph, The Times of India, Sikkim Express (English), Hamro Prajashakti (Nepali) etc. · Magazines like India Today, Down To Earth, Pratiyogita Darpan, Civil Services Chronicle, Kurukshetra, Yojana, Agriculture Today, Economics and Political weekly.			
5.	Research Journals	Students and faculty can access journals through onlin portal of CeRA, ICAR.			
6.	Internet with computers	Two			
7.	Sitting capacity	28 numbers			
8.	Latest technology in library	KOHA LMS is being used for Library Automation in CAEPHT Library. Necessary steps have been initiated for accessing online journals and study materials at Electronic Resource Management package for e- journals access through CeRA (Consortia fore Resources in Agriculture)			
9.	Stocking arrangement	Library adopted Open Access System for access library collection and classified according to Dev Decimal Classification (DDC) scheme (22 Ed.) arranged in APUPA pattern, stacked in different p like, Subject books Kannada/Literature books General books Reference books Competitive Exam books Thesis			

	•	Back volumes
	•	Seminar scripts

6.4.10. The information pertaining to 6.4.1 to 6.4.9 has been provided for UG programme *i.e.*, B.Tech. (Food Technology) of College of Agricultural Engg & PHT, CAU, Ranipool, Gangtok, Sikkim correctly.

6.4.11. Since the accreditation of Programmes is related to the All India Admission from ICAR and also having weightage for College accreditation, therefore the data presented in the section 6.4 is liable to the verification at any stage.

6.4.12 CERTIFICATE

I, the Dean, N.S. Chauhan, College of Agricultural Engineering & Post Harvest Technology, Ranipool, Sikkim, hereby certify that the information contained in Sections 6.4.1 to 6.4.9 is furnished as per the records available in the college, and degree awarding university.

ge of Agril. Engg & Post Harvest Tech. Ranipool, Gandtok - 737135

(N.S. Chauhan) Dean

SELF STUDY REPORT



For M.Sc. Forestry (Forest Biology and Tree Improvement) COLLEGE OF HORTICULTURE & FORESTRY, PASIGHAT, ARUNACHAL PRADESH

CENTRAL AGRICULTURAL UNIVERSITY, IMPHAL



SUBMITTED TO

NATIONAL AGRICULTURAL EDUCATION ACCREDITATION BOARD

ICAR, NEW DELHI

6.4. Self-Study Report for M.Sc. Forestry (Forest Biology and Tree Improvement)

6.4.1. Brief History of the Degree Programme:

The college was inaugurated on 7th March, 2001 and started functioning from the academic year 2001. The Postgraduate degree programmes in Forestry started from the academic year 2015. The college is located in a serene atmosphere at Pasighat, vicinity to the mighty Siang River, which is 2.5 km from Pasighat town. The College is spread over an area of 145 acres. The prime objectives of this College are imparting Horticulture and Forestry education and meeting the research and extension needs of the NE Region. The postgraduate programme is conducted with an intake capacity of 6 (2 in each department). The institute offers a fellowship of Rs.3000/- to all the postgraduate students who are admitted in this college. At present, each and every department is headed by a Professor/ Associate Professor and staffed with well qualified and highly experienced faculty. The core and allied departments of forestry are engaged in teaching, research and extension activities with the aim of development of forestry sector, agroforestry interventions and human resource development the NE Region. The objectives and accomplishments of the stry departments are:

- \checkmark To impart quality education for the postgraduate in forestry and its allied sciences.
- ✓ To further the advancement of learning by undertaking research in forestry toovercome the new challenges and develop new technologies.
- \checkmark To strengthen the applied research in different disciplines of forestry.
- ✓ To undertake the programmes of extension education in the states under thejurisdiction.
- \checkmark To undertake such other activities as it may deem fit from time to time.

Department Objectives

Forest Biology and Tree Improvement (FBT)

- To survey the geographical area for selection of genotypes.
- To develop and enrich the available resources for further deployment.
- Management of forest genetic resources in the Eastern Himalayas.
- Characterization of forest tree species in Northeastern Himalayan hardwoods, softwoods, important shrubs and bamboos.
- Transfer of technology in the usage of superior genetic material for higher productivity to end users like State Forest Department, NGOs and farmers.
- To carry out the various programmes tree improvement, forest genetic resources and forest ecology.

2. ACCOMPLISHMENTS

The overall performance of the students of College of Horticulture and Forestry in the competitive examination and employment ability has been enhanced due to excellent guidance and support provided for their academic, administrative and research endeavors. The students have excelled in different National level competitive exams. The college has set-up a Placement Cell (*Student Welfare Section*) for the students which opens the doors for getting employment in the various organizations. The passed-out students are working as Assistant Technology Manager (ATMA), Scientist in ICAR, and are placed in reputed positions in government and corporate sectors. Some are pursuing higher education and working as Research fellows in different Institutes/ Universities.

S.No.	Sanctioned Faculty	Faculty inPlace	Vacant Position	Faculty Recommended by the ICAR/UGC/VCI/other regulatory bodies					
Α	Department of Silvicu	lture and Ag	roforestry						
1.	Professor	-	1	1					
2.	Associate Professor	1	-	2					
3.	Assistant Professor	1	4						
В	Department of Forest Biology and Tree Improvement								
4.	Professor	-	1 (Advertised)	1					
5.	Associate Professor	1	1 (Advertised)	2					
6.	Assistant Professor	1	2 (Advertised)	4					
С	Department of Forest	Products and	d Utilization	'					
7.	Professor	1	-	1					
8.	Associate Professor	-	-	2					
9.	Assistant Professor	2	-	4					
D	Department of Natural Resource Management								
10	Professor	1	-	1					
11	Associate Professor	2	-	2					
12	Assistant Professor	2	-	4					

6.4.2. Faculty Strength in Forestry
S.No.	Sanctioned Faculty	Faculty in	Vacant	Faculty
		Place	Position	Recommended by the
				ICAR/UGC/VCI/other
				regulatory bodies
Ε	Department of Basic Scier	ices& Social Sc	ience	
10	Professor	1	-	1
11	Associate Professor	1	-	2
12	Assistant Professor	9	-	6
F	Department of Plant Prote	ection	1	·
13	Professor	-	-	-
14	Associate Professor	2	-	-
15	Assistant Professor	3	-	-
G	Department of Fruit Scien	nce		·
16	Professor	-	2	1
17	Associate Professor	2	1	2
18	Assistant Professor	4	1	3
Η	Department of Vegetable S	cience		
19	Professor	-	1	1
20	Associate Professor	1	-	1
21	Assistant Professor	2	2	4

Faculty Strength in Supporting & Allied Departments of Forestry

6.4.3. Technical and Supporting Staff

Sl. No.	Sanctioned staff	Staff in Place	Vacant post	Staff Recommended by the ICAR/UGC/VCI/other regulatory bodies
А.	Establishment Branch			
1.	Assistant Registrar (Estt.)	01	-	
2.	Assistant Registrar (Acad.)	-	02	
3.	Assistant Comptroller	-	01	
4.	Security Officer	-	01	

5.	Accountant	01	02	
6.	UDC	02	-	
7.	Clerk-cum-Typist/LDC	11	10	
8.	Computer operator	01	-	
9.	Security Guard	02	-	
В.	Estate Branch			1
1.	Asstt.Engineer/Asstt.	01	-	
	Estate Officer			
2.	Junior Engineer (Civil &	02	-	
	Mechanical)			
3.	Electrician	01	-	
4.	Plumber	01	01	
5.	Drivers including Tractor	05	04	
	Driver			
C.	Library			
1.	Librarian	01	-	
2.	Sr. Library Assistant	-	01	
3.	Library Assistant	03	-	
D.	Health		<u>.</u>	·
1.	Medical Officer	01**	01	
2.	Compounder cum Dresser	01		
			-	
	Medical Attendant	02	-	
E.	Medical Attendant <i>Student Welfare</i>	02	-	
E. 1.	Medical Attendant <i>Student Welfare</i> Students Welfare Officer	02	- 01	
E. 1. 2.	Medical Attendant <i>Student Welfare</i> Students Welfare Officer Assistant	02 01* 01	- - 01 -	
E. 1. 2. F.	Medical Attendant <i>Student Welfare</i> Students Welfare Officer Assistant <i>Hostels</i>	02 01* 01	- - 01 -	
E. 1. 2. F.	Medical Attendant <i>Student Welfare</i> Students Welfare Officer Assistant <i>Hostels</i> Chief Warden	02 01* 01 01*	- - 01 -	
E. 1. 2. F. 1. 2.	Medical Attendant <i>Student Welfare</i> Students Welfare Officer Assistant <i>Hostels</i> Chief Warden Warden	02 01* 01 01* 05*	- - 01 - -	
E. 1. 2. F. 1. 2. 3.	Medical AttendantStudent WelfareStudents Welfare OfficerAssistantHostelsChief WardenWardenCaretaker/Helpers	02 01* 01 01* 05* 10***	- - 01 - -	
E. 1. 2. F. 1. 2. 3. G.	Medical AttendantStudent WelfareStudents Welfare OfficerAssistantHostelsChief WardenWardenCaretaker/HelpersTechnical & Supporting State	02 01* 01 01* 05* 10*** taff for Departm	- 01 - - - nents, Estate,	Hostels & others
E. 1. 2. F. 1. 2. 3. G. 1.	Medical AttendantStudent WelfareStudents Welfare OfficerAssistantHostelsChief WardenWardenCaretaker/HelpersTechnical & Supporting SHorticulture Assistant	02 01* 01 01* 05* 10*** taff for Departm 01	- 01 - - - nents, Estate, -	Hostels & others
E. 1. 2. F. 1. 2. 3. G. 1. 2.	Medical AttendantStudent WelfareStudents Welfare OfficerAssistantHostelsChief WardenWardenCaretaker/HelpersTechnical & Supporting SHorticulture AssistantLive Stock	02 01* 01 01* 05* 10*** taff for Departm 01 01 04	- 01 - - - nents, Estate, 01	Hostels & others

3.	Field-cum-Lab-Assistant	21	06	
4.	Multi-Tasking Staff	47	44	
	(MTS)			

* Assistant Professor Cadre holding additional charge ** Contractual recognised Medical Practitioner *** MTS with assigned specific duty

6.4.4. Classrooms and Laboratories:

a) Number of class rooms :14

All class rooms are provided with LCD projectors and audio-visual aids for better delivery of lectures. The faculty use power point presentations to make the concepts/techniques clearly understandable to the students. The important lectures are taught with videos. A table, podium, whiteboards/screen, black board etc. are available in each class room for the use of teachers. A common generator facility supplies power to all the classrooms to avoid interruption of the class during power failure.

S.No.	Department/Section	Area		Remarks
		(Sq	l.mtr)	
1	Silviculture & Agroforestry			
	(i) SAF Laboratory	98	Equipped wit instruments and with basins, wat arrangements etc	h all necessary l lab infrastructure er, electricity, sitting
2	Forest Product Utilization			
	(ii) Medicinal and Aromatic Plants Laboratory	160	Equipped with equipments for practical, sitti distillation, extra facilities, etc.	all the modern or research and ing arrangements, action
	(iii) Wood Products and Utilization Laboratory	90	Facilities for res characterization anatomical, chemical propert work carried out design, fabrication	earch and practical, of morphological, mechanical and ties of timber. Other -wood on ,etc.

b) Functional laboratories (Forestry & allied):13 nos.

3	Forest Biology & Tree Improvement				
	(iv) FBT Laboratory	72	Equipped with instruments for research and practical, water basins, proper drainage of water and chemicals.		
4	Basic Sciences				
-	(v) UG Basic Science Laboratory	28	Biochemical, biotechnological and microbiological research and		
	(vi) PG Basic Science Laboratory	28	practical needs of students are being fulfilled.		
	(vii) Tissue Culture Laboratory	47			
	(viii) Computer Laboratory	48	The lab is used for conducting practical classes for PG students and equipped with 15 computer & 2 printers for student access. Internet band width/ speed: 34 Mbps.		
5	Plant Protection				
	(ix) Entomology (Biocontrol) Laboratory:	72	Facilities equipped for research work on crop pests management and		
	(x) Entomology (IBDC) Laboratory	85	production of bio-control agents		
	(xi) Pathology Laboratory(Mushroom): (Sterilization room, Boiling room)	144	Production of Mushroom spawn and other microbial research work carried-out.		
	(xii) Pathology (Mushroom inoculation):	45	For inoculating mushroom. The laboratory is also equipped with culturing and spawns production		
6	Natural Resource Managemen	et			
	(xiii) Soil Science and Agricultural Chemistry Laboratory	100	The laboratory is equipped with various facilities to analyse soil samples, related to various degree programmes (UG, P.G. and Ph.D) of Agriculture, Horticulture and Forestry.		
7	Vegetable Science				
	One Laboratory	82	Equipped with all necessary instruments and lab infrastructure with basins, water, electricity, sitting arrangements etc.		
8	Fruit Science				
	Two Laboratory	98 and 82	Equipped with all necessary instruments and lab infrastructure with basins, water, electricity, sitting arrangements etc.		

c) Lists of major equipments:

The laboratories are well equipped to conduct the practicals/hands on training to the students with instruments, laboratory tables, basins, irrigation facilities, electrical and ventilations, adequate wooden furniture etc. The lists of instruments/equipments available in the laboratories are furnished below.

(i) Department of Silviculture & Agroforestry

S.No	Name of the Equipment	S.No	Name of the Equipment
1.	Autoclave	2.	Hot Air Oven
3.	Bark Gauge	4.	Increment Borers
5.	Binocular	6.	Incubator
7.	Binocular microscope	8.	Lux Meter
9.	Clinometer	10.	Ordinary Balance
11.	Digital Camera	12.	pH meter
13.	Digital Weighing Balance	14.	Refrigerator
15.	Weighing balance	16.	Seed drier
17.	Distillation apparatus	18.	Seed Germinator
19.	Electronic Balance	20.	Microtone machine
21.	Haga Altimeter	22.	Weighing Balance
23.	High Limb Chainsaw		

(ii) Department of Forest Products and Utilization

S.No	Name of the Equipment	S.No	Name of the Equipment
1.	Double water distillation machine	2.	Godrej refrigerator
3.	Optical microscope with computer	4.	Hot oven
5.	Essential oil distillation machine	6.	Water bath
7.	Autoclave vertical	8.	Compound microscope
9.	Binocular microscope	10.	Dissecting microscope
11.	UV Photo spectrometer	12.	BOD incubator
13.	Soxhlet oil extractor	14.	Hot plate magnetic stirrer
15.	Weighing balance	16.	Digital weighing balance
17.	pH cum conductivity meter	18.	Seed Germinator
19.	Hot and cold press machine	20.	Microtone machine
21.	Motor chain saw	22.	Universal testing machine
23.	Combine wood working machine		

(iii) Department of Forest Biology and Tree Improvement

S.No	Name of the Equipment
1.	Digital Magnetic Stirrer
2.	Hot Plate with Magnetic Stirrer
3.	Precision Balance
4.	Microscopes
5.	Water bath
6.	Refrigerator
7.	Seed drier
8.	Seed Germinator
9.	Plant press
10.	Electronic Balance

(iv) Department of Basic Sciences

S.No	Name of the Equipment	S.No	Name of the Equipment
1.	pH meter	2.	Microscopes
3.	Cooling water bath	4.	Laminar flow
5.	Centrifuge	6.	PCR Machine
7.	Autoclave	8.	HPLC (under repair)
9.	Refrigerator	10.	Weighing machine
11.	Microscope	12.	Ultraviolet Transilluminator
13.	Hot plate	14.	Ultrasonicleaner
15.	Ice-flaking machine	16.	Gas Chromatography
17.	Centrifuge	18.	Ozone Generattor
19.	Weighing balance	20.	Oven
21.	Refrigerator		

Tissue Culture Laboratory:

S.No	Name of the Equipment
1.	Laminar flow
2.	HPLC (under repair)
3.	PCR Machine
4.	Weighing machine
5.	Gas Chromatography
6.	Ultraviolet Trans illuminator

(v) Department of Plant Protection

S.No	Name of the Equipment	S.No	Name of the Equipment
------	-----------------------	------	-----------------------

1.	Autoclave	2.	Distillation unit
3.	Fermenter	4.	Laminar airflow
5.	Binocular microscope	6.	Laminar airflow Vertical
	(CH20iOlymp)		
7.	Humidity cabinet	8.	Weighing balance
9.	Autoclave Horizontal	10.	Bio-nocular microscope
11.	Honey extractor (10frames)	12.	Multimedia projector
13.	Honey processing plant (Cap. 250Kg)	14.	Nikon Camera d5300
15.	Honey bottling machine	16.	Water Bath
17.	Automatic Honey bottle Dryer	18.	Serological Water bath
19.	Honey Bottle sealing machine	20.	Distillation unit
21.	Honey comb foundation mill	22.	Quartz Boiler & Quartz
			condenser
23.	Gel Electrophoresis	24.	BOD incubator
25.	Refrigerated table top centrifuge	26.	Deep freezer, Water bath (digital)
27.	Autoclave	28.	Chalk powder mixture
29.	Grain Boiler	30.	Spawn Bag filler
31.	Laminar flow	32.	Distillation Unit
33.	Refrigerator	34.	Hygrometer
35.	Camera lucida	36.	Stage & ocular micrometer
37.	Haemocytometer	38.	Student microscope
39.	Shrink wrap machine	40.	Microscope (Zeiss)
41.	Spectrophotometer	42.	Micro-oven
43.	Digital balance	44.	BOD incubator
45.	Illuminator	46.	

(vi) Department of Natural Resource Management

Soil Science & Agricultural Chemistry Laboratory:

S.No	Name of the Equipment	S.No	Name of the Equipment
1.	pH meter	2.	Hot Plate
3.	Hot Air Oven	4.	Plastic Jars
5.	Water Bath	6.	Mechanical Shaker
7.	EC Meter	8.	Analytical Balance
9.	Keen Box	10.	Nitrogen Analyse
11.	Spectrophotometer	12.	Single Distillation Set / Unit
13.	Calorimeter	14.	Moisture Box
15.	Double Distillation Set / Unit	16.	Flame Photometer

17.	Atomic Absorption Spectrophotometer	18.	Sieves
19.	Total Station	20.	Plane table with accessories
21.	Chain Surveying& accessories	22.	Abney's Level
23.	GPS	24.	Digital Planimeter
25.	Hand Level	26.	Current Meter
27.	Levelling survey accessories		

Forest Surveying/ Engineering Facility

S.No	Name of the Equipment	S.No	Name of the Equipment
1.	Total Station	2.	Current Meter
3.	Plane table with accessories	4.	Digital Planimeter
5.	Levelling survey accessories	6.	Hand Level
7.	GPS	8.	Abney's Level
9.	Dumpy Level	10.	Chain Surveying&
			accessories

Farm Power, Machineries and Irrigation Infrastructures

S.No	Name of the Equipment	S.No	Name of the Equipment
1.	Tractor 275 DI	2.	Ridge Maker
3.	Tractor 575 DI	4.	Tractor operated Seed Drill
5.	Tractor 605 DI	6.	Trolley
7.	Tractor Bull Excavator	8.	Multi crop Thresher
9.	Rotavator	10.	Tractor Operated Lawn Mower
11.	Cultivator	12.	Power Tiller
13.	Disc Harrow	14.	Sprinkler Irrigation System
15.	M.B. Plough	16.	Drip Irrigation System
17.	Disc Plough	18.	Tractor Operated Potato Planter
19.	Hand Tools & Implements	20.	Tractor Operated Sprayer
21.	Sprayers		

(vii) Department of Vegetable Science:

S.No.	Name of the equipment	S.No	Name of the equipment
1.	pH meter	2.	Conductivity meter
3.	Deep freezer	4.	Magnetic stirrer
5.	Hot air oven	6.	Olympus microscope (Binocular)
7.	Laminar flow	8.	Camera
9.	Seed germinator	10.	Computer with accessories

11.	Seed dryer	12.	Digital balance
13.	Distillation apparatus	14.	Lux meter
15.	Electronic balance	16.	Hand refractometer
17.	Horizontal autoclave	18.	Dissecting microscope
19.	Vertical autoclave	20.	Microscope trinocular stereo zoom model carl ziess stemi 2000°C
21.	Water bath	22.	AC fitted lab facilities
23.	Variable volume pipette	24.	Tissue culture lab
25.	Processing units		

(ix) Department of Fruit Science

S.No	Name of the Equipment	S.No	Name of the Equipment
1.	Autoclave	2.	Hot Water Bath
3.	Digital Camera	4.	Polymerase Chain Reaction (PCR)
5.	Digital Weighing Balance	6.	Magnetic stirrer Atomic Absorption Spectrophotometer
7.	One Single Distillation Unit	8.	Hand refractometer
9.	One Double D.U	10.	Tissue culture lab Digit
11.	Electronic Balance (two)	12.	Lux meter
13.	Precision Balance	14.	Portable Penitrometer
15.	Hot Air Oven	16.	Flame Photometer
17.	BOD Incubator	18.	Muffle Furnace
19.	Ordinary Balance (Two)	20.	Microwave Oven
21.	Cooling Centrifuge	22.	Tabletop Centrifuge (two)
23.	pH meter	24.	Two Refrigerators (-20 ^o C)



Figure 1: Laboratory facility for wood specific gravity estimation technique



Figure 2: Wood fibre morphology estimation with high resolution microscope facilities

(d) Farm facilities, workshops and other instructional units: 16 nos.

S.N	Department/Section	Area (Sq.mtr.)	Facilities
1	Silviculture & Agroforestry	·	
	(i) Silviculture Nursery	9100	 Nursery raised bed= 70 Nos. Shade net house (5x1.5m) =30 Nos. Green Net House (9mx16.5m x 5.5m) Tree Garden/ Collection of 250 species of tree species forresearch/academic PG Research plots for germination experiments Plantation Blocks of diff. species Water Pump with motor , Irrigation & electricity setups

	(ii) Agroforestry Block	2100	 Compost (concrete) pit PG Research plots under different spacings of different species and different age.
2	Forest Product Utilization		C C
	 (iii) Medicinal & Aromatic plant farm (iv) Medicinal plant germplasm block 	12000	 Germplasm of Medicinal Plants Collection of rare and endangered spp. PG research plots Nursery beds Shade houses/roofs Irrigation and electric facilities
	(v) Herbal garden	10000	 More than 160 species Research, conservation & identification purpose
	(vi) Bambusetum block	8000	 67 spp. of different type ofbamboos Research, conservation &identification purpose
	(vii) Rubber plantation block	20000	Commercial genotypes of High yielding <i>Heveabrasiliensis</i>
	(viii) NTFPs & High value timber block	25000	 Tans & dye yielding plants Lac, Gums and resins plants Drugs, spices and insecticides plants Wild edible fruits trees
3	Forest Biology & Tree Improv	ement	·
	(ix) TIM & PBG farm	1800	 Nursery raised bed= 20 Nos. Shade net house (15x15m) Tokkopatta shade roofs: 10nos. Arboretum 1100 sq. mtr Irrigation & electricity setups
4	Plant Protection		
	(x) Entomology (Biocontrol) Farm	4047	 Nursery Beds, Research plots Water Pump with motor , Irrigation & electricity setups
	(x1) Entomology (IBDC) Farm	2023	 All equipments of beekeeping Irrigation facility Plots for nectar yielding

			plant
	(xii) Pathology Farm	1083	 Disease Diagnostic Field Students demonstration plot Nursery beds
			• Irrigation & electric facilities.
	(xiii) Paddy straw boiling unit and mushroom house	1350	 Boiling unit Facilities for mushroom culture & production Unit has more than 250 species of edible and poisonous mushroom species.
5	Natural Resource Manageme	nt	
	 (xiv) Forest Engineering Facility (xiv) Farm Power & Irrigation Infrastructures 	1500	 Runoff Experiment Facility Rain water Harvesting BasedIntegrated Horticulture Farming System WHP=5 Lakhs Litters Capacity 5Hp Solar Pumping System Naturally Ventilated Greenhouse= 30m×7m Drip irrigation system operated by Solar Pump Sprinkler Irrigation Systemoperated by solar pump Gravity fed drip IrrigationSystem in 500sq.m area Basic Power Machineriesavailable
	(xvi) Agrometerology Observatory	500	• Meteorological observation data for Research and Academic purpose
6.	Horticulture		
	(xvii) Medicinal and Aromatic plant farm (xviii) Medicinal plant germplasm block	12000	 Germplasm of Medicinal and Aromatic Plants Collection of rare and endangered spps.

		 Nursery beds Shade houses/roofs Irrigation & electric facilities
(xix) Herbal garden	10000	 More than 160 species Research, conservation and identification purpose
(xx) Floriculture and Landscaping	20000	 9 nos. polyhouses Germplasm bank of orchids and native ornamental plants Commercial cut flower block of orchids, anthurium, gerbera, and heliconia Collection of indoors plants, cactus and annual flowers
(xxi) Vegetables science	35543	 Demonstration block on nutrition garden and other vegetable crops Turmeric and spices processing unit Hi-tech poly house (3 nos.) Naturally ventilated polyhouses (2 nos.) Water harvesting tanks Solar power operated sprinkler irrigation system Local vegetable garden Vegetable nursery block
(xxii) Fruit Department	98525	 Fruit nursery block Demonstration and experimental block of coconut, passion fruit block, litchi, Jack fruit, Aonla, cashewnut, Mango, banana, Oil palm, Pumello and Assam lemon.

(e) Justification:

The laboratories of all departments are well equipped with all the necessary equipments and facilities to accomplish the proposed research activities. All basic chemicals and instruments are available for doing practical and research work in all the laboratories. The farm facilities, workshops and other instructional units are well designed with sufficient land area and build infrastructure, irrigation, electricity and required farm machineries supported with tractors, power tillers, cultivators, leveller, rotavator, and other farm implements for day to day work and research purpose to meet the course curricula and research requirements.

(f) Theory and practical batches for the Degree Programme: The numbers of intake students are manageable with available facilities. Average number of students in theory and practical classes are given below:

S.N.	Particulars of curricula	Batch of student in	Batch of student in
		Theory class*	Practical class*
1.	Silviculture and Agroforestry	1 batch (6 students)	1 batch (6 students)
2.	Forest Biology and Tree Improvement	1 batch (6 students)	1 batch (6 students)
3.	Forest Products and Utilization	1 batch (6 students)	1 batch (6 students)
4.	Supporting courses	1 batch (6 students)	1 batch (6 students)

* included both major and minor courses (present intake: 2 students in each department)

The class rooms and laboratories are sufficient to meet course curricula requirement of the degree programme.

6.4.5. Conduct of Practical and Hands-on-Training:

- On the basis of academic calendar prepared by the university for the academic session for the effective implementation of the curriculum, the theory and practical classes are conducted at the experimental fields and laboratories of the forestry and allied departments. The PG courses involve conducting practicals as per credits allotted to the specified courses and hands on training and field/lab practicals for courses like Silviculture, Biometry, Agroforestry, Plantation Technology, Tree Improvement, Forest Biotechnology, Wild Life Management, Forest Protection, Watershed Management, Wood Products and Utilization, Forest Management, etc.
- Besides in-house projects, PG students are sent as and when required by the college to reputed institutions to complete their research projects or vital topics under curriculum. Taking students for field surveys/institutional/industrial visits not only provide practical exposure to students but also help in proper networking and interaction between the college and research institutions/ industries.
- Hands-on-training for ICT tools and technology such as statistical softwares, MSoffice, LCD and is encouraged in teaching learning and evaluation process.
- PG students are encouraged to participate in conferences, seminars, workshops,

brainstorming etc. and also asked to write reviews in reputed National/International journals.



Figure 3: Field work on plus tree selection



Figure 4: Field survey for collection of increment using wood borer tool

6.4.6. Supervision of students in PG/PhD programmes: (number of qualified faculty in

S.No	Department	Qualified	Present	Capacity guidelines	of supervi	sor as per
		faculty	nos. of students	Asstt. Professor	Asssoc. Professor	Professor
1.	Silviculture and Agroforestry	2	2	4	5	6

relation to the intake of students, as per the guidelines in the matter.)

2.	Forest Product Utilization	3	-	4	5	6
3.	Forest Biology and Tree Improvement	2	1	4	5	6

6.4.7. Feedback of stakeholders: The performance of an average score of various parameter were rated on the scale from 1* to 5* on the basis of feedback parameters (Annexure I)

S.No.	Number of passed out student awarded PG degree	Feedback Mechanism	Feedback issues
1.	Fourteen (14)	Feedback form (supported by	Received feedback from 11 students with average scoring
	Year (2017 to 2021)	the documents)	from the feedback parameters.
			Issues : Some of the issues that have raised from the students through feedback like internet facilities, free online research journals, off campus study tour and strengthening of both the teaching and non-teaching staffs were addressed.

(*1- Excellent, 2- Very good, 3- Good, 4- Fair, 5- Poor)

Action: Feedback evaluation and suggestions given by students and alumni are discussed with the members of the college advisory committee of concern course and necessary changes have been accomplished as below:

- Strength of the faculty of core and allied departments has been upgraded.
- College has well-equipped Computer lab with 24 hours x 7 days / week free Internet access (34 Mbps) to students.
- Aids to online research like Electronic Resource Management package for ejournals Access through CeRA, CAB data base: access facility and Krishikosh are available to the students.
- Hostels are provided with computer system for their research/academic purpose.
- PG students are well facilitated with virtual platform.

Name of the degree programme	Actu	al stude fi	ent adn ve year	nitted i :s	n last	Attrition (%) 21 2017 2018 2019 2020 2021 - - - - - -				
M.Sc. Forestry	2017	2018	2019	2020	2021	2017	2018	2019	2020	2021
Forest Biology &1121TreeImprovementImprovementImprovementImprovement				1	-	-	-	-	-	

6.4.8. Student intake and attrition in the programme for the last five years:

Student attrition: In general, the student attrition is very low and the retention of thestudents is very high.

6.4.9. ICT Application in Curricula Delivery:

- (a) The college has well-equipped air conditioned Computer lab with a plinth area of 80 square meter. The students are being taught about the IT facilities. The computer centre is equipped with Desktops for the use of staff and students of this institute. All these desktops and laptops are connected with internet for browsing. Since October, 2020 the computer centre is connected with 24x7 34 Mbps, Internet Access through BSNL. The facilities available in the computer lab are:
 - 24 hours x 7 days / week free Internet access (34 Mbps) to students
 - Wi-Fi enabled at New Academic Block (since 2015) to use e-communications forstudents and staffs.
 - Students are trained to install open source software.
 - Computers with Internet access are available in all departments.
 - Academic buildings are linked with Administrative building through Optic FiberCable.
 - Total number of computers for open access: 20
 - Total numbers of printers for open access: 05
 - Internet band width/ speed: 34Mbps through BSNL
 - The lab is used for conducting Practical classes for UG and PG students.
 - Students also use the Computer Lab for their research, statistical calculation andother academic activities.
 - Smart Class room: 2 nos. of smart classrooms for teaching and practical has been upgraded.
 - The academic, research, extension activities of the college are updated at the college website.

(b)The Library of the college is equipped with internet facilities for staff and students to access OPAC (Online Public Access Catalogue) URL =www.chfcau.ideal.egranth.ac.in.

- Two Software are available : (i) Alice for Window (Softlink Asia pvt.ltd)Offline and (ii) Koha Library management Software
- Electronic Resource Management package for e-journals Access throughCeRA ICAR (Consortia for e-Resources in Agriculture): www.cera.jccc.in
- CAB data base: access facility (CAB data from 1972 to 2005)
- Krishikosh (e-theses etc. Institutional Repository of ICAR) all M.Sc. and Ph.D. Theses uploaded. It is open repository. URL: Krishikosh.egranth .ac.in
- Library automation: Under process through Koha Library managementsoftware
- Total number of computers for public access in library:06
- The College of Horticulture and Forestry, Pasighat has upgraded to 2 numbers of smart classrooms for teaching and practical purposes.

(c) Language Laboratory:

Recently the College has setup 30 seater Language Laboratory with 32 numbers of computers for teaching and practicals of the students. The **language laboratory** is a dedicated space for foreign language learning where students access audio or audio- visual materials.

6.4.10. The information pertaining to 6.4.1 to 6.4.9 shall be provided for each one of UG, PG and PhD Degree Programmes, separately, and to be presented College-wise.

6.4.11. Since the accreditation of Programmes is related to the All India Admission from ICAR and also having weightage for College accreditation, therefore the data presented in the section 6.4 is liable to the verification at any stage.

6.4.12. Certificate (Applicable when SSR is submitted for Programme) I, the Dean **Dr. B. N. Hazarika** hereby certify that the information contained in the Section 6.4.1 to 6.4.9 are furnished as per the records available in the college, and degree awarding university.

of Horticulture & Foresu al University 11102 (A P)

Signature of Dean of the College with Date & Seal



उद्य**ान एव**ं व**ाग्नक**ी मह**ाग्वद्या**लय

College of Horticulture and Forestry

के द्रेीय कृ न िि नवर्गनवद्यालय, पासीघाट-७९११०२, अर्ुणाचल एदेश

STUDENTS FEEDBACK FORM

- 1. Name of the student: Dr. Pempa Lamu Bhutia
- 2. Admission no.:01F/2007
- 3. Academic Year: 2007-2011
- 4. Name of the programme studied: B.Sc. Forestry
- 5. Designation: Scientist
- 6. Mobile No.: 9381680479
- 7. Email id:pempadenzongpa66@gmail.com
- 8. Feedback:

S.No.	Parameters	Rating
1.	Curriculum & Syllabi of the courses provide sufficient	3
	knowledge in the area of study, has good balance between	
	theory and application and fulfilling your expectation.	
2.	Usage of teaching aids and ICT in the class by faculty to	1
	facilitate teaching and give quality education.	
3.	Teaching quality, fairness in the assessment processes(Internal	1
	evaluation, Quiz, Assignments, etc.) and freedom	
	to adopt new techniques/education tools	
4.	Opportunities in the College for Research Activities &	2
	Relevance with Practical / Lab work	
5.	Curriculum has prospects for supporting higher education,	2
	career orientated/employability	
6.	Overall Learning Experience	2

*Select your ranking on the scale of 1 to 5 for each of the following parameters. (1-Excellent, 2- Very good, 3- Good, 4- Fair, 5- Poor)

Recommendations if any for course improvement:

Date:19/05/2021 student

Signature of the



College of Horticulture and Forestry

के द्रीय कृ न ि नवर्षनवद्यालय, पासीघाट-७९११०२, अरुणाचल प्रदेश

STUDENTS FEEDBACK FORM

- 1. Name of the student: Jasmine Pabin
- 2. Admission no.:03(M)F-18
- 3. Academic Year:2018-2020
- 4. Name of the programme studied:M.Sc Forestry
- 5. Designation:Student
- 6. Mobile No.:8131052482
- 7. Email id:jasminepabin0697@gmail.com
- 8. Feedback:

S.No.	Parameters	Rating
1.	Curriculum & Syllabi of the courses provide sufficient	1
	knowledge in the area of study, has good balance between	
	theory and application and fulfilling your expectation.	
2.	Usage of teaching aids and ICT in the class by faculty to	1
	facilitate teaching and give quality education.	
3.	Teaching quality, fairness in the assessment processes	2
	(Internal evaluation, Quiz, Assignments, etc.) and freedomto	
	adopt new techniques/education tools	
4.	Opportunities in the College for Research Activities &	3
	Relevance with Practical / Lab work	
5.	Curriculum has prospects for supporting higher education,	1
	career orientated/employability	
6.	Overall Learning Experience	2

*Select your ranking on the scale of 1 to 5 for each of the following parameters. (1-Excellent, 2- Very good, 3- Good, 4- Fair, 5- Poor)

Recommendations if any for course improvement:



Date: 19-05-21

Signature of the student



College of Horticulture and Forestry

के द्रीय कृ न िि नवर्गनवद्यालय, पासीघाट-७९११०२, अरुणाचल प्रदेश

STUDENTS FEEDBACK FORM

- 1. Name of the student: UNSHANI DARYAL
- 2. Admission no.: 02F(M)-18
- 3. Academic Year: 2018-2020
- 4. Name of the programme studied: M.Sc. (Hons)Forestry
- 5. Designation: Student
- 6. Mobile No.: 8132814970
- 7. Email id: unshanidaryal0@gmail.com
- 8. Feedback:

S.No	Parameters	Rating
1.	Curriculum & Syllabi of the courses provide sufficient knowledge in the area of study, has good balance between theory and application and fulfilling your expectation.	3
2.	Usage of teaching aids and ICT in the class by faculty to facilitate teaching and give quality education.	4
3.	Teaching quality, fairness in the assessment processes (Internal evaluation, Quiz, Assignments, etc.) and freedom to adopt new techniques/education tools	3
4.	Opportunities in the College for Research Activities & Relevance with Practical / Lab work	5
5.	Curriculum has prospects for supporting higher education, career orientated/employability	5
6.	Overall Learning Experience	3

*Select your ranking on the scale of 1 to 5 for each of the following parameters. (1-Excellent, 2- Verygood, 3- Good, 4- Fair, 5- Poor)

Recommendations if any for course improvement:

- Teaching aids like Projector should be available & functional in every classroom.
- Course teacher should be appointed for each specific course or at least of same department.
- Basic needs of field (soil, FYM, sand, etc,) & lab facilities should be provided accordingly.
- For final year students, seminars or any of sort related with higher education, careeroriented/employability can be conducted.

Unshani Daryal

Date: 19-05-2021

Signature of the student



College of Horticulture and Forestry

के द्रीय कृ न ि नवर्गनवद्यालय, पासीघाट-७९११०२, अरुणाचल प्रदेश

STUDENTS FEEDBACK FORM

Name	:	FULLMOON PUWEIN
Admn. No.	:	03F(M)/2017
Academic Year	:	2017-18
Name of the programme studied	:	M.Sc. (FORESTRY) PLANTATION TECHNOLOGY
Present Designation & WorkProfile	:	NONE
Mobile number & email ID	:	8837425726; 13bscagh007@gmail.com
Feedback		

S.N.	Parameters	Ranking*
1.	Curriculum & Syllabi of the courses provide sufficient knowledge in thearea of study, has good balance between theory and application and fulfilling your expectation.	2
2.	Usage of teaching aids and ICT in the class by faculty to facilitateteaching and give quality education.	3
3.	Teaching quality, fairness in the assessment processes (Internalevaluation, Quiz, Assignments, etc.) and freedom to adopt newtechniques/education tools	2
4.	Opportunities in the College for Research Activities & Relevance withPractical / Lab work	3
5.	Curriculum has prospects for supporting higher education, careerorientated/employability.	4
6.	Overall Learning Experience	1

*Please give your valuable feedback on curriculum to improve quality of the programme. Select yourranking on the scale of 1 to 5 for each of the following parameters. (1-Excellent, 2- Very good, 3- Good, 4- Fair, 5- Poor)

Recommendations if any for course improvement:

(1). Improvement in Lab facilities in almost all Dept. is need. (2). Increase in strength of the faculties in Forestry Dept. especially in the field of agroforestry, forest pathology, forest entomology and NRM related subject. (3). Provide study tour for P.G students.

Date: 5/11/2020

- Junez

Signature of Student



उद्यान एवम् वानिकी महाविद्यालय केन्द्रीय कृषि विश्वविद्यालय पासीघाट–७९, १०२, अरुणाचल प्रदेश

COLLEGE OF HORTICULTURE AND FORESTRY Central Agricultural University Pasighat-791102, Arunachal Pradesh

STUDENTS FEEDBACK FORM

Name	:	LAPYNSUK JANA
Admn. No.	:	01F(M)-2015
Academic Year	:	2015-2017
Name of the programme studied	:	MASTER OF SCIENCE IN FORESTRY
Present Designation & Work Profile	:	 Assistant Technology Manager (ATM) at Agricultural Technology Management Agency (ATMA). Work profile:- To provide requisite technical & knowledge support to farm school, FF, FIGs/CIGs/FSGs/FPOs and farmers in general. In consultation with Block level officers of agri. and allied departments & BTMs, ATMs will provide necessary inputs to Common Service Centers & Kisan Call Centres. Any other work assigned by BTM.
Mobile number & email ID	2	7640935490 (lapzzjana.1991@gmail.com)

Feedback

S.N.	Parameters	Ranking*
1.	Curriculum & Syllabi of the courses provide sufficient knowledge in the area of study, has good balance between theory and application and fulfilling your expectation.	2
2.	Usage of teaching aids and ICT in the class by faculty to facilitate teaching and give quality education.	3
3.	Teaching quality, fairness in the assessment processes (Internal evaluation, Quiz, Assignments, etc.) and freedom to adopt new techniques/education tools	2
4.	Opportunities in the College for Research Activities & Relevance with Practical / Lab work	4
5.	Curriculum has prospects for supporting higher education, career orientated/employability.	2
6.	Overall Learning Experience	2

*Please give your valuable feedback on curriculum to improve quality of the programme. Select your ranking on the scale of 1 to 5 for each of the following parameters. (1- Excellent, 2- Very good, 3- Good, 4- Fair, 5- Poor)

Recommendations if any for course improvement :

- 1. **Introduce technology in the classroom** i.e., Using videos, free online resources and digital tools that can be easily implemented in the classroom. As students they are more adept with technological skills, so by integrating technology into the classroom it will instantly help students to learn better and faster.
- 2. More Opportunities in the College for Research Activities & Relevance with Practical / Lab work i.e., to invest in research. Due to lack of resources such as tools, implements and also lack of proper laboratory, a student is unable to perform his/ her research in a proper manner. Therefore, Investment in research is needed as it helps in improvement of institution's reputation not only that but also a good research work does help in the future of a student.

Date: 7.11.2020.

d. Jana. Signature of Student

1.7



College of Horticulture and Forestry

के द्रीय कृ न ि नवर्गनवद्यालय, पासीघाट-७९११०२, अरुणाचल प्रदेश

STUDENT FEEDBACK FORM

Name	:	Nepuni Rinaldi
Admn. No.	:	01F(M)-2016
Academic year	:	2016-2017
Name of the programme studied	:	M.Sc. Forestry (Plantation Technology)
Present designation and work profile	:	Project Associate
Mobile no. amd e-mail ID	:	6909787273/ rinaldinepuni03@gmail.com

Feedback

S.N.	Parameters	Ranking*
1.	Curriculum & syllabus of the course provide sufficient knowledgein the area of study, has good balance between theory and application and fulfilling your expectation.	1
2.	Usage of teaching and aids ICT in the class by faculty to facilliate teaching and give quality education.	2
3.	Teaching quality, fairness in the accesment processes (internal evaluation, quiz, assignment, etc) and freedom to adopt newtechnique/ education tools.	1
4.	Oppourtuniteies in the college for research activities & relevance with practicle/ lab work.	2
5.	Curriculum has prospects for supporting higher educations, career oriented/employability.	2
6.	Overall learning experience	2

*Please give your valuable feedback on curriculum to improve quality of the programme ranking on the scale of 1 to 5 for each of the following parameters (1- excellent, 2- Very Good, 3-Good, 4- Fair, 5-Poor) Recommendation if any for the course improvement :

Date: 8/11/2020

Nepuni Rimaldi

Student signature



College of Horticulture and Forestry

के द्रीय कृ न ि नवर्गनवद्यालय, पासीघाट-७९११०२, अरुणाचल प्रदेश

STUDENTS FEEDBACK FORM

Name	: Guruaribam Nishanta Sharma
Admn. No.	: 02F(M)-2017
Academic Year	: 2017
Name of the programme studied	: M.Sc. Forestry (Plantation Technology)
Present Designation & WorkProfile	:
Mobile number & email ID	: 7005013821 gurunishanta@gmail.com
Feedback	

S.N.	Parameters	Ranking*
1.	Curriculum & Syllabi of the courses provide sufficient knowledge in the area of study, has good balance between theory and application andfulfilling your expectation.	2
2.	Usage of teaching aids and ICT in the class by faculty to facilitate teaching and give quality education.	3
3.	Teaching quality, fairness in the assessment processes (Internal evaluation, Quiz, Assignments, etc.) and freedom to adopt newtechniques/education tools	3
4.	Opportunities in the College for Research Activities & Relevance withPractical / Lab work	3
5.	Curriculum has prospects for supporting higher education, careerorientated/employability.	4
6.	Overall Learning Experience	2

*Please give your valuable feedback on curriculum to improve quality of the programme. Select your ranking on the scale of 1 to 5 for each of the following parameters. (1- Excellent, 2- Very good, 3- Good, 4- Fair, 5- Poor)

Recommendations if any for course improvement :

There is lack of faculty and equipment's requirement for fast completion of the course. Since hostel in compulsory for any course. Kindlycheck the quality of the food provide to the students.

Date: 7 November 2020

Nichanta

Signature of Student



College of Horticulture and Forestry

के द्रीय कृ न ि नवर्षनवद्यालय, पासीघाट-७९११०२, अरुणाचल प्रदेश

STUDENTS FEEDBACK FORM

Name	:	Royal L Mihriemate
Admn. No.	:	03F(M)-2016
Academic Year	:	2016-2018
Name of the programme studied	:	M.Sc. Forestry (Agroforestry)
Present Designation & WorkProfile	:	-
Mobile number & email ID	:	7005807685, royal04@yahoo.com
Feedback		

S.N.	Parameters	Ranking*
1.	Curriculum & Syllabi of the courses provide sufficient knowledge in thearea of study, has good balance between theory and application and fulfilling your expectation.	2
2.	Usage of teaching aids and ICT in the class by faculty to facilitateteaching and give quality education.	3
3.	Teaching quality, fairness in the assessment processes (Internal evaluation, Quiz, Assignments, etc.) and freedom to adopt newtechniques/education tools	2
4.	Opportunities in the College for Research Activities & Relevance withPractical / Lab work	2
5.	Curriculum has prospects for supporting higher education, careerorientated/employability.	2
6.	Overall Learning Experience	2

*Please give your valuable feedback on curriculum to improve quality of the programme. Select your ranking on the scale of 1 to 5 for each of the following parameters. (1-Excellent, 2- Very good, 3- Good, 4- Fair, 5- Poor)

Recommendations if any for course improvement :

Better wifi facility for students

Date:7/11/2020

Signature of Student



उद्यान एवम् वानिकी महाविद्यालय केन्द्रीय कृषि विश्वविद्यालय पासीघाट–७६,११०२, अरुणाचल प्रदेश

COLLEGE OF HORTICULTURE AND FORESTRY Central Agricultural University Pasighat-791102, Arunachal Pradesh

STUDENTS FEEDBACK FORM

Name	: TANTULUNG TATAN
Admn. No.	: 04F(M) 2017
Academic Year	: 2017-2019
Name of the programme studied	: M.sc Forestry
Present Designation & Work Profile	: Junior Project Fellow
Mobile number & email ID	: 8837088644 & tailulungtatan170gmail.com

Feedback

S.N.	Parameters	Ranking*
1.	Curriculum & Syllabi of the courses provide sufficient knowledge in the area of study, has good balance between theory and application and fulfilling your expectation.	1
2.	Usage of teaching aids and ICT in the class by faculty to facilitate teaching and give quality education.	1
3.	Teaching quality, fairness in the assessment processes (Internal evaluation, Quiz, Assignments, etc.) and freedom to adopt new techniques/education tools	1
4.	Opportunities in the College for Research Activities & Relevance with Practical / Lab work	1
5.	Curriculum has prospects for supporting higher education, career orientated/employability.	1
6.	Overall Learning Experience	1

*Please give your valuable feedback on curriculum to improve quality of the programme. Select your ranking on the scale of 1 to 5 for each of the following parameters. (1- Excellent, 2- Very good, 3- Good, 4- Fair, 5- Poor)

Recommendations if any for course improvement : The PG students should be Send outside tou toaining programme

Signature of Student

Date: 07 11 20



COLLEGE OF HORTICULTURE AND FORESTRY Central Agricultural University Pasighat-791102, Arunachal Pradesh

STUDENTS FEEDBACK FORM

Name	: PHURAILATPAM CHETANKUMAR SHARMA
Admn. No.	: $01F(m) - 2017$
Academic Year	: 2017-19
Name of the programme studied	M.Sc. Forestry
Present Designation & Work Profile	:
Mobile number & email ID	: 8837313527 & mistoganck @gmail.com

Feedback

S.N.	Parameters	Ranking*
1.	Curriculum & Syllabi of the courses provide sufficient knowledge in the area of study, has good balance between theory and application and fulfilling your expectation.	1
2.	Usage of teaching aids and ICT in the class by faculty to facilitate teaching and give quality education.	1
3.	Teaching quality, fairness in the assessment processes (Internal evaluation, Quiz, Assignments, etc.) and freedom to adopt new techniques/education tools	2
4.	Opportunities in the College for Research Activities & Relevance with Practical / Lab work	5
5.	Curriculum has prospects for supporting higher education, career orientated/employability.	3
6.	Overall Learning Experience	2

*Please give your valuable feedback on curriculum to improve quality of the programme. Select your ranking on the scale of 1 to 5 for each of the following parameters. (1- Excellent, 2- Very good, 3- Good, 4- Fair, 5- Poor)

Recommendations if any for course improvement : Need for a deption of an exam system where answers to each question are to be written within a specified work limit (as practiced in UPSC main examinations). This will make students more creative to complete the answer while maintaining the work limit.

Chilles Dh.

Date: 9/11/2020

Signature of Student



College of Horticulture and Forestry

के द्रीय कृ न ि नवर्गनवद्यालय, पासीघाट-७९११०२, अरुणाचल प्रदेश

STUDENTS FEEDBACK FORM

- 1. Name of the student: SEEMA CHETTRI
- 2. Admission no.: 01F(M)2018
- 3. Academic Year: 2018-2020
- 4. Name of the programme studied: M. Sc. Forestry
- 5. Designation: Student
- 6. Mobile No.: 7641018487
- 7. Email id: cmachettri2403@gmail.com
- 8. Feedback:

S.No.	Parameters	Rating
1.	Curriculum & Syllabi of the courses provide sufficient	1
	knowledge in the area of study, has good balance between	
	theory and application and fulfilling your expectation.	
2.	Usage of teaching aids and ICT in the class by faculty to	2
	facilitate teaching and give quality education.	
3.	Teaching quality, fairness in the assessment processes	2
	(Internal evaluation, Quiz, Assignments, etc.) and freedomto	
	adopt new techniques/education tools	
4.	Opportunities in the College for Research Activities &	3
	Relevance with Practical / Lab work	
5.	Curriculum has prospects for supporting higher education,	2
	career orientated/employability	
6.	Overall Learning Experience	2

*Select your ranking on the scale of 1 to 5 for each of the following parameters. (1- Excellent, 2- Very good, 3- Good, 4- Fair, 5- Poor) **Recommendations if any for course improvement:** More practical exposures and RHWE/FWE attachments in our own state departments would help strengthen our knowledge plus practicability in our own fields.

Date:18-05-2021

Seem Cretti

Signature of the student

SELF STUDY REPORT



for M.Sc. Forestry (Silviculture and Agroforestry) COLLEGE OF HORTICULTURE & FORESTRY, PASIGHAT, ARUNACHAL PRADESH CENTRAL AGRICULTURAL UNIVERSITY, IMPHAL



SUBMITTED TO NATIONAL AGRICULTURAL EDUCATION ACCREDITATION BOARD ICAR, NEW DELHI

6.4. Self-Study Report for M.Sc. Forestry (Silviculture and Agroforestry)

6.4.1. Brief History of the Degree Programme:

The college was inaugurated on 7th March, 2001 and started functioning from the academic year 2001. The Postgraduate degree programmes in Forestry are being offered from the academic year 2015. This college is located in a serene atmosphere at Pasighat, vicinity to the mighty Siang river, which is 2.5 km from Pasighat town. The College is spread over an area of 145 acres. The prime objectives of this College are imparting Horticulture and Forestry education and meeting the research and extension needs of the NE Region. The postgraduate programme is conducted with strength of 2 students in each discipline totaling to 6 students per year. At present, each and every department is headed by a Professor/Associate Professor and staffed with well qualified and highly experienced faculty. The core and allied departments of forestry are engaged in teaching, research and extension activities with the aim of development of forestry sector, agroforestry interventions and human resource development the NE Region. The objective and accomplishments of the forestry departments are:

- \checkmark To impart quality education for the postgraduate in forestry and its allied sciences.
- ✓ To further the advancement of learning by undertaking research in forestry toovercome the new challenges and develop new technologies.
- \checkmark To strengthen the applied research in different disciplines of forestry.
- ✓ To undertake the programmes of extension education in the states under the jurisdiction.
- \checkmark To undertake such other activities as it may deem fit from time to time.

3. DEPARTMENT OBJECTIVE

Silviculture and Agroforestry (SAF)

- To impart knowledge on regeneration and cultivating forest tree species.
- To conduct research on nursery and seed technology.
- To develop afforestation techniques and raising of site specific tree based agroforestry/farming systems.
- To accustom the State Forest Department/farmers/orchardists and other government/semi-government agencies with modern techniques of tree management.

4. ACCOMPLISHMENTS

The overall performance of the CHF students in the competitive examination and employment ability has enhanced due to excellence guidance and support provided for their academic, administrative and research endeavours. The students have exceled in different National level competitive exams. The college has set-up a Placement Cell (*Student Welfare Section*) for the students which opens the doors for getting employment in the various organizations. The passed-out students are working as Assistant Technology Manager (ATMA), Scientist in ICAR, and are placed in reputed positions in government and corporate sectors. Some are progressing to higher education and working as Research fellows in different institutes/universities.

6.4.2.	Faculty	Strength	in	Forestry
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S.No.	Sanctioned Faculty	Facult y in Place	Vacant Position	Faculty Recommended by the			
		Tace		regulatory bodies			
Α	Department of Silviculture and Agroforestry						
1.	Professor	-	1(Advertised)	1			
2.	Associate Professor	1	-	2			
3.	Assistant Professor	1	1(Advertised)	4			
В	Department of Forest Biology and Tree Improvement						
4.	Professor	-	1	1			
5.	Associate Professor	1	1	2			
6.	Assistant Professor	1	2	4			
С	Department of Forest Products and Utilization						
7.	Professor	1	-	1			
8.	Associate Professor	-	-	2			
9.	Assistant Professor	2	-	4			
D	Department of Natural Resource Management						
10	Professor	1	-	1			
11	Associate Professor	2	-	2			
12	Assistant Professor	2	-	4			

Ε	Department of Basic Sciences & Social Science					
10	Professor	1	-	1		
11	Associate Professor	1	-	2		
12	Assistant Professor	9	-	6		
F	Department of Plant Protection					
13	Professor	-	-	-		
14	Associate Professor	2	-	-		
15	Assistant Professor	3	-	-		
G	Department of Fruit Science					
16	Professor	-	2	1		
17	Associate Professor	2	1	2		
18	Assistant Professor	4	1	3		
Н	Department of Vegetable Science					
19	Professor	-	1	1		
20	Associate Professor	1	-	1		
21	Assistant Professor	2	2	4		

6.4.3. Technical and Supporting Staff

Sl. No.	Sanctioned staff	Staff in	Vacant	Staff Recommended by	
		Place	post	the	
				ICAR/UGC/VCI/other	
				regulatory bodies	
А.	Establishment Branch				
1.	Assistant Registrar (Estt.)	01	-		
2.	Assistant Registrar	-	02		
	(Acad.)				
3.	Assistant Comptroller	-	01		
4.	Security Officer	-	01		
5.	Accountant	01	02		
6.	UDC	02	-		
7.	Clerk-cum-Typist/LDC	11	10		
8.	Computer operator	01	-		
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9.	Security Guard	02	-		
В.	Estate Branch				
1.	Asstt.Engineer/Asstt.	01	-		
	Estate Officer				
2.	Junior Engineer (Civil &	02	-		
	Mechanical)				
3.	Electrician	01	-		
4.	Plumber	01	01		
5.	Drivers including Tractor	05	04		
	Driver				
C.	Library				
1.	Librarian	01	-		
2.	Sr. Library Assistant	-	01		
3.	Library Assistant	03	-		
D.	Health	Health			
1.	Medical Officer	01**	01		
2.	Compounder cum Dresser	01	-		
•	Medical Attendant	02	-		
Е.	Student Welfare	·	·		
1.	Students Welfare Officer	01*	01		
2.	Assistant	01	-		
F.	Hostels	-			
1.	Chief Warden	01*	-		
2.	Warden	05*	-		
3.	Caretaker/Helpers	10***			
G.	Technical & Supporting St	aff for Depar	tments, E	state, Hostels & others	
1.	Horticulture Assistant	01	-		
2.	Live Stock	04	01		
	Assistant/Farm Asstt.				
3.	Field-cum-Lab-Assistant	21	06		
4.	Multi-Tasking Staff	47	44		
	(MTS)				

* Assistant Professor Cadre holding additional charge ** Contractual Recognised Medical Practitioner *** MTS with assigned specific duty

6.4.4. Classrooms and Laboratories:

d) Number of class rooms :14

All class rooms are provided with LCD projectors and audio-visual aids for better delivery of lectures. The faculty use power point presentations to make the concepts/techniques clearly understandable to the students. The important lectures are taught with videos. A table, podium, whiteboards/screen, black board etc. are available in each class room for the use of teachers. A common generator facility supplies power to allthe classrooms to avoid interruption of the class during power failure.

S.No.	Department/Section	Area (Sqmtr)	Remarks
1	Silviculture & Agroforestry		
	(i) SAF Laboratory	98	Equipped with all necessary instruments & lab infrastructure with basins, water, electricity, sitting arrangements etc.
2	Forest Product Utilization		
	(ii) Medicinal and Aromatic Plants Laboratory	160	Equipped with all the modern equipment's for practical, sitting arrangements, Distillation, extraction facilities, etc.
	(iii) Wood Products and Utilization Laboratory	90	Facilities for characterization of morphological, anatomical, mechanical& chemical properties of timber. Other work carried out -wood design, fabrication ,etc.

e) Functional laboratories (Forestry & allied) :13 nos.

Forest Biology & Tree Improvement		
(iv) FBT Laboratory	72	Equipped with instruments for research& practicals. Water basins fitted in the laboratory for proper drainage of water and chemicals
Basic Sciences		
(v) UG Basic Science Laboratory	28	Biochemical,
(vi) PG Basic Science Laboratory	28	biotechnological &
(vii) Tissue Culture Laboratory	47	microbiological practical & research needs of students are being fulfilled.
(viii) Computer Laboratory	48	The lab is used for conducting Practical classes for PG students equipped with 15 computer & 2 printers for student access. Internet band width/ speed: 34Mbps.
Plant Protection		
(ix) Entomology (Biocontrol) Laboratory:	72	Facilities equipped for research work on crop
(x) Entomology (IBDC) Laboratory :	85	pests management & production of biocontrol agents
(xi) Pathology Laboratory (Mushroom): (Sterlization room, Boiling room)	144	Production of Mushroom spawn and other microbial research work carried-out.
(xii) Pathology (Mushroom inoculation):	45	For inoculating mushroom. The laboratory is also equipped with culturing and spawns production
Natural Resource Management		
(xiii) Soil Science & Agricultural Chemistry Laboratory	100	The laboratory is equipped with various facilities to analyse the soil samples, related to various degree programmes (UG, P.G and Ph.D) of Agriculture, Horticulture and Forestry.
	Forest Biology & Tree Improvement (iv) FBT Laboratory (iv) UG Basic Science Laboratory (vi) PG Basic Science Laboratory (vii) Tissue Culture Laboratory (viii) Computer Laboratory (xi) Entomology (Biocontrol) Laboratory: (x) Entomology (IBDC) Laboratory : (xi) Pathology Laboratory (Mushroom): (Sterlization room, Boiling room) (xii) Pathology (Mushroom inoculation): (xiii) Soil Science & Agricultural Chemistry Laboratory	Forest Biology & Tree Improvement (iv) FBT Laboratory 72 Basic Sciences 72 (v) UG Basic Science Laboratory 28 (vi) PG Basic Science Laboratory 28 (vii) Tissue Culture Laboratory 47 (viii) Computer Laboratory 47 (viii) Computer Laboratory 48 Plant Protection 72 (ix) Entomology (Biocontrol) 72 Laboratory: 85 (xi) Pathology Laboratory (Mushroom): 144 (xii) Pathology (Mushroom inoculation): 45 Natural Resource Management 100 (xiii) Soil Science & Agricultural Chemistry Laboratory 100

7	Floriculture and Landscape Architecture		
8	(xiv) One Laboratory <i>Fruit Science</i>	82	Equipped with all necessary instruments & lab infrastructure with basins, water, electricity, sitting arrangements etc.
	(xv) Two Laboratory	98 and 82	Equipped with all necessary instruments & lab infrastructure with basins, water, electricity, sitting arrangements etc.

f) Lists of major equipment:

The laboratories are well equipped to conduct the practicals/hands on training to the students with instruments, laboratory tables, basins, irrigation facilities, electrical and ventilations, adequate wooden furniture etc. The list of instruments/equipments available in the laboratories are furnished below.

S.No	Name of the Equipment	S.No	Name of the Equipment
1.	Autoclave	2.	Hot Air Oven
3.	Bark Gauge	4.	Increment Borers
5.	Binocular	6.	Incubator
7.	Binocular microscope	8.	Lux Meter
9.	Clinometer	10.	Ordinary Balance
11.	Digital Camera	12.	pH meter
13.	Digital Weighing Balance	14.	Refrigerator
15.	Weighing balance	16.	Seed drier
17.	Distillation apparatus	18.	Seed Germinator
19.	Electronic Balance	20.	Microtone machine
21.	Haga Altimeter	22.	Weighing Balance
23.	High Limb Chainsaw		

(vii) Department of Silviculture & Agroforestry



Laboratory (98 Sq. mtr.) equipped with all necessary instruments & lab infrastructure with basins, water, electricity, sitting arrangements etc.



Biometry instruments for Forest Mensuration investigations *viz.*, Clinometer, Haga Altimeter, wedge prism, Relaskop etc.

(viii) Department of Forest Products and Utilization

S.No	Name of the Equipment	S.No	Name of the Equipment
1.	Double water distillation machine	2.	Godrej refrigerator
3.	Optical microscope with computer	4.	Hot oven
5.	Essential oil distillation machine	6.	Water bath
7.	Autoclave vertical	8.	Compound microscope
9.	Binocular microscope	10.	Dissecting microscope

11.	UV Photo spectrometer	12.	BOD incubator
13.	Soxhlet oil extractor	14.	Hot plate magnetic stirrer
15.	Weighing balance	16.	Digital weighing balance
17.	pH cum conductivity meter	18.	Seed Germinator
19.	Hot and cold press machine	20.	Microtone machine
21.	Motor chain saw	22.	Universal testing machine
23.	Combine wood working machine		

(ix) Department of Forest Biology and Tree Improvement

S.No	Name of the Equipment
1.	Digital Magnetic Stirrer
2.	Hot Plate with Magnetic Stirrer
3.	Precision Balance
4.	Microscopes
5.	Water bath
6.	Refrigerator
7.	Seed drier
8.	Seed Germinator
9.	Plant press
10.	Electronic Balance

(x) Department of Basic Sciences

S.No	Name of the Equipment	S.No	Name of the Equipment
1.	pH meter	2.	Microscopes
3.	Cooling water bath	4.	Laminar flow
5.	Centrifuge	6.	PCR Machine
7.	Autoclave	8.	HPLC (under repair)
9.	Refrigerator	10.	Weighing machine
11.	Microscope	12.	Ultraviolet Transilluminator
13.	Hot plate	14.	Ultrasonicleaner
15.	Ice-flaking machine	16.	Gas Chromatography
17.	Centrifuge	18.	Ozone Generattor
19.	Weighing balance	20.	Oven
21.	Refrigerator		

Tissue Culture Laboratory:

S.No	Name of the Equipment
1.	Laminar flow
2.	HPLC (under repair)
3.	PCR Machine
4.	Weighing machine
5.	Gas Chromatography
6.	Ultraviolet Transilluminator

(xi) Department of Plant Protection

S.No	Name of the Equipment	S.No	Name of the Equipment
1.	Autoclave	2.	Distillation unit
3.	Fermenter	4.	Laminar airflow
5.	Binocular microscope (CH20i Olymp)	6.	Laminar airflow Vertical
7.	Humidity cabinet	8.	Weighing balance
9.	Autoclave Horizontal	10.	Bio-nocular microscope
11.	Honey extractor (10frames)	12.	Multimedia projector
13.	Honey processing plant (Cap. 250Kg)	14.	Nikon Camera d5300
15.	Honey bottling machine	16.	Water Bath
17.	Automatic Honey bottle Dryer	18.	Serological Water bath
19.	Honey Bottle sealing machine	20.	Distillation unit
21.	Honey comb foundation mill	22.	Quartz Boiler & Quartz condenser
23.	Gel Electrophoresis	24.	BOD incubator
25.	Refrigerated table top centrifuge	26.	Deep freezer, Water bath (digital)
27.	Autoclave	28.	Chalk powder mixture
29.	Grain Boiler	30.	Spawn Bag filler
31.	Laminar flow	32.	Distillation Unit
33.	Refrigerator	34.	Hygrometer
35.	Camera lucida	36.	Stage & ocular micrometer
37.	Haemocytometer	38.	Student microscope
39.	Shrink wrap machine	40.	Microscope (Zeiss)
41.	Spectrophotometer	42.	Micro-oven
43.	Digital balance	44.	BOD incubator
45.	Illuminator	46.	

(xii) Department of Natural Resource Management

S.No	Name of the Equipment	S.No	Name of the Equipment
1.	pH meter	2.	Hot Plate
3.	Hot Air Oven	4.	Plastic Jars
5.	Water Bath	6.	Mechanical Shaker
7.	EC Meter	8.	Analytical Balance
9.	Keen Box	10.	Nitrogen Analyse
11.	Spectrophotometer	12.	Single Distillation Set / Unit
13.	Calorimeter	14.	Moisture Box
15.	Double Distillation Set / Unit	16.	Flame Photometer
17.	Atomic Absorption Spectrophotometer	18.	Sieves
19.	Total Station	20.	Plane table with accessories
21.	Chain Surveying& accessories	22.	Abney's Level
23.	GPS	24.	Digital Planimeter
25.	Hand Level	26.	Current Meter
27.	Levelling survey accessories		

Soil Science & Agricultural Chemistry Laboratory:

Forest Surveying/ Engineering Facility

S.No	Name of the Equipment	S.No	Name of the Equipment
1.	Total Station	2.	Current Meter
3.	Plane table with accessories	4.	Digital Planimeter
5.	Levelling survey accessories	6.	Hand Level
7.	GPS	8.	Abney's Level
9.	Dumpy Level	10.	Chain Surveying&
			accessories

Farm Power, Machineries and Irrigation Infrastructures

S.No	Name of the Equipment	S.No	Name of the Equipment
1.	Tractor 275 DI	2.	Ridge Maker
3.	Tractor 575 DI	4.	Tractor operated Seed Drill
5.	Tractor 605 DI	6.	Trolley
7.	Tractor Bull Excavator	8.	Multi crop Thresher
9.	Rotavator	10.	Tractor Operated Lawn Mower
11.	Cultivator	12.	Power Tiller
13.	Disc Harrow	14.	Sprinkler Irrigation System
15.	M.B. Plough	16.	Drip Irrigation System

17.	Disc Plough	18.	Tractor Operated Potato Planter
19.	Hand Tools & Implements	20.	Tractor Operated Sprayer
21.	Sprayers		

(vii) Department of Fruit Science

S.No	Name of the Equipment	S.No	Name of the Equipment
1.	Autoclave	2.	Hot Water Bath
3.	Digital Camera	4.	Polymerase Chain Reaction (PCR)
5.	Digital Weighing Balance	6.	Magnetic stirrer Atomic Absorption Spectrophotometer
7.	One Single Distillation Unit	8.	Hand refractometer
9.	One Double D.U	10.	Tissue culture lab Digit
11.	Electronic Balance (two)	12.	Lux meter
13.	Precision Balance	14.	Portable Penitrometer
15.	Hot Air Oven	16.	Flame Photometer
17.	BOD Incubator	18.	Muffle Furnace
19.	Ordinary Balance (Two)	20.	Microwave Oven
21.	Cooling Centrifuge	22.	Tabletop Centrifuge (two)
23.	pH meter	24.	Two Refrigerators (-20 ^o C)

(viii) Department of Floriculture & Landscape Architecture

S.No	Name of the Equipment	S.No	Name of the Equipment
1.	pH meter	2.	Incubator
3.	Refrigerator	4.	Magnetic stirrer
5.	Hot air oven	6.	Digital balance
7.	Seed germinator	8.	Camera
9.	Lux meter	10.	Computer with accessories
11.	Distillation apparatus	12.	Electronic balance
13.	Environmental test chamber	14.	Hot plate

S.N	Department/Section	Area (Sq.mtr.)	Facilities
1	Silviculture & Agroforestry		
	(i) Silviculture Nursery	9100	 Nursery raised bed= 70 Nos. Shade net house (5x1.5m) =30 Nos. Green Net House (9mx16.5mx 5.5m) Tree Garden/ Collection of 250 species of tree species for research/academic PG Research plots for germination exp Plantation Blocks of diff. species
			• Water Pump with motor , Irrigation & electricity setups
	(ii) Agroforestry Block	2100	 Compost (concrete) pit PG Research plots under different spacing's of diff.species & diff. age.
2	Forest Product Utilization		
	(iii)Medicinal & Aromatic plant farm (iv)Medicinal plantgermplasm block	12000	 Germplasm of Medicinal Plants Collection of rare & endangered spp. PG research plots Nursery beds Shade houses/roofs Irrigation & electric facilities
	(v) Herbal garden	10000	 More than 160 species Research, conservation & identification purpose
	(vi) Bambusetum block	8000	 67 spp. of different type of bamboos Research, conservation & identification purpose
	(vii) Rubber plantation block	20000	• Commercial genotypes of high yielding <i>Hevea</i> brasiliensis
	(viii) NTFPs & High value timber block	25000	 Tans & dye yielding plants Lac, Gums and resins plants Drugs, spices and insecticides plants Wild edible fruits trees

(g) Farm facilities, workshops and other instructional units:16 nos.

3	Forest Biology & Tree Impr	ovement	
	(ix) TIM & PBG farm	1800	 Nursery raised bed= 20 Nos. Shade net house (15x15m) Tokkopatta (thatched) shade roofs:10nos. Arboretum 1100 sq. mtr Irrigation & electricity setups
4	Plant Protection		
	 (x) Entomology (Biocontrol) Farm (xi) Entomology (IBDC) Farm (xii) Pathology Farm 	4047 2023 1083	 Nursery Beds, Research plots Water Pump with motor , Irrigation & electricity setups All equipments of beekeeping Irrigation facility Plots for nectar yielding plant Disease Diagnostic Field
			Students demonstration plotNursery beds
			• Irrigation & electric facilities.
5	(xiii) Paddy straw boiling unit and mushroom House	1350	 Boiling unit Facilities for mushroom culture & production Unit has more than 250 species of edible and poisonous mushroom species.
5	Natural Resource Managemen	u	• Duroff Experiment Essility
	(xv) Forest Engineering Facility (xvi) Farm Power & Irrigation Infrastructures (xvii)Agrometerology	1500	 Rain water Harvesting Based Integrated Horticulture Farming System WHP=5 Lakhs Litters Capacity 5Hp Solar Pumping System Naturally Ventilated Greenhouse= 30m ×7m Drip irrigation system operated by Solar Pump Sprinkler Irrigation System operated by solar pump Gravity fed drip Irrigation System in 500sq.m area Basic Power Machineries available Meteorological observation
	Observatory		data for Research and Academic purpose
6 6.		Horticult	ure
	Medicinal & Aromatic plant farm	12000	 Germplasm of Medicinal and Aromatic Plants Collection of rare and endangered

Medicinal plant germplasm block		 spps. Nursery beds Shade houses/roofs Irrigation & electric facilities
Herbal garden	10000	 More than 160 species Research, conservation & identification purpose
Floriculture and Landscaping	20000	 9 nos. polyhouses Germplasm bank of orchids & native ornamental plants Commercial cut flower block of orchids, anthurium, gerbera, and heliconia Collection of indoors plants, cactus and annual flowers
Vegetables science	3554 3	 Demonstration block on nutrition garden and other vegetable crops Turmeric and spices processing unit Hi-tech poly house (3 nos.) Naturally ventilated polyhouses (2 nos.) Water harvesting tanks Solar power operated sprinkler irrigation system Local vegetable garden Vegetable nursery block
Fruit Department	98525	 Fruit nursery block Demonstration & experimental block of coconut, passion fruit block, litchi, Jack fruit, Aonla, cashewnut, Mango, banana, Oil palm, Pumello and Assam lemon.



Silviculture Nursery (9100 Sq. mtr.)



Green Net House (9mx16.5mx 5.5m)





Shaded nets (30 Nos.) & Raised bed (70 Nos.)

Agroforestry block (2100 Sq. mtr.)

(h) Justification:

The laboratories of all departments are well equipped with all the necessary equipments and facilities to accomplish the proposed research activities. All basic chemicals and instruments are available for doing practical and research work in all the laboratories. TheFarm facilities, workshops and other instructional units are well designed with sufficient land area and build infrastructure, irrigation, electricity and required farm machineries supported with tractors, power tillers, cultivators, leveller, rotavator, and other farm implements for day to day work and research purpose to meet the course curricula and research requirements.

(i) Theory and practical batches for the Degree Programme: The numbers of intake students are manageable with available facilities. Average number of students in theory and practical classes are given below:

S.N.	Particulars of curricula	Batch of student in	Batch of student in
		Theory class*	Practical class*
1.	Silviculture and Agroforestry	1 batch (6 students)	1 batch (6 students)
2.	Forest Biology and Tree Improvement	1 batch (6 students)	1 batch (6 students)
3.	Forest Products and Utilization	1 batch (6 students)	1 batch (6 students)
4.	Supporting courses	1 batch (6 students)	1 batch (6 students)

* *included both major and minor courses* (present intake: 2 students in each department) The class rooms and laboratories are sufficient to meet course curricula requirement of the degree programme.



Experiment on pre-sowing seed treatment on seed of threatened tree species

6.4.5. Conduct of Practical and Hands-on-Training:

- On the basis of academic calendar prepared by the University for the academic session for the effective implementation of the curriculum, the theory and practical classes are conducted at the experimental fields and laboratories of the forestry and allied departments. The PG courses involve conducting practicals as per credits allotted to the specified courses and hands on training and field/lab practicals for courses like Silviculture, Biometry, Agroforestry, Plantation Technology, Tree Improvement, Forest Biotechnology, Wild Life Management, Forest Protection, Watershed Management, Wood Products and Utilization, Forest Management, etc.
- Besides in-house projects, PG students are sent as and when required by the college to reputed institutions to complete their research projects or vital topics under curriculum. Taking students for field surveys/institutional/industrial visits not only provide practical exposure to students but also help in proper networking and interaction between the college and research institutions/ industries.
- Hands-on-training for ICT tools and technology such as statistical softwares, MS office, LCD and is encouraged in teaching learning and evaluation process.
- PG students are encouraged to participate in conferences, seminars, workshops, brainstorming etc. and also asked to write reviews in reputed National/International journals.



Standardization of nursery techniques and growth performance of valuable tree species

6.4.6. Supervision of students in PG/PhD programmes: (number of qualified faculty in relation to the intake of students, as per the guidelines in the matter.)

S.No	Department	Qualified	Present	Capacity of guidelines	f supervisor	as per
		faculty	nos. of	Asstt.	Asssoc.	Professor
			students	Protessor	Professor	
1.	Silviculture & Agroforestry	2	2	4	5	6
2.	Forest Product Utilization	3	-	4	5	6
3.	Forest Biology & Tree Improvement	2	1	4	5	6

6.4.7. Feedback of stakeholders: The performance of an average score of various parameterwere rated on the scale from 1* to 5* on the basis of feedback parameters

(Annexure I)

S.No.	Number of passed out student awarded PG degree	Feedback Mechanism	Feedback issues
1.	Fourteen (14) Year (2017 to 2021)	Feedback form (supported by the documents)	Received feedback from 11 students with average scoring (2.00)* indicating 'Very Good' from the feedback parameters.

	<i>Issues</i> : Some of the issues that have raised from the students through feedback like internet facilities, free online research journals, off campus study tour and strengthening of both the teaching and non-teaching staffs were addressed.
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*1- Excellent, 2- Very good, 3- Good, 4- Fair, 5- Poor)

Action: Feedback evaluation and suggestions given by students and alumni are discussed with the members of the college advisory committee of concern course and necessary changes have been accomplished as below:

- Strength of the faculty of core and allied departments has been upgraded.
- College has well-equipped Computer lab with 24 hours x 7 days / week free Internet access (34 Mbps) to students.
- Aids to online research like Electronic Resource Management package for ejournals Access through CeRA, CAB data base: access facility and Krishikosh are available to the students.
- Hostels are provided with computer system for their research/academic purpose.
- PG students are well facilitated with virtual platform.

6.4.8. Student intake and attrition in the programme for the last five years:

Name of the degree programme	Actual student admitted in last five years					Att	rition ([%)		
M.Sc. Forestry	2017	2018	2019	2020	2021	2017	2018	2019	2020	2021
Silviculture and Agroforestry	2	1	1	1	2	-	-	-	-	-

Student attrition: In general, the student attrition is very low and the retention of the students is very high.

6.4.9. ICT Application in Curricula Delivery:

(d) The college has well-equipped air conditioned Computer lab with a plinth area of 80 square meter. The students are being taught about the IT facilities. The computer centre is equipped with Desktops for the use of staff and students of this institute. All these desktops and laptops are connected with internet for browsing. Since October, 2020 the computer centre is connected with 24x7 34 Mbps , Internet Access through BSNL . The facilities available in the computer lab are:

- 24 hours x 7 days / week free Internet access (34 Mbps) to students
- Wi-Fi enabled at New Academic Block (since 2015) to use ecommunications forstudents and staffs.
- Students are trained to install open source software.
- Computers with Internet access are available in all departments.
- Academic buildings are linked with Administrative building through Optic FiberCable.
- Total number of computers for public access: 20
- Total numbers of printers for public access: 05
- Internet band width/ speed: 34Mbps through BSNL
- The lab is used for conducting Practical classes for UG and PG students.
- Students also use the Computer Lab for their research, statistical calculation andother academic activities.
- Smart Class room: 2 Nos. of smart classrooms for teaching and practical has upgraded.
- The academic, research, extension activities of the college are updated at the college website.
- (e) The Library of the college is equipped with internet facilities for staff and students to access OPAC (Online Public Access Catalogue) URL =www.chfcau.ideal.egranth.ac.in.
 - Two Software are available : (i) Alice for Window (Softlink Asia pvt.ltd)Offline and (ii) Koha Library management Software
 - Electronic Resource Management package for e-journals Access through CeRA ICAR (Consortia for e-Resources in Agriculture): www.cera.jccc.in
 - CAB data base: access facility (CAB data from 1972 to 2005)
 - Krishikosh (e-theses etc. Institutional Repository of ICAR) all M.Sc. and Ph.D. Theses uploaded. It is open repository. URL: Krishikosh.egranth .ac.in
 - Library automation: under process through Koha Library management software
 - Total number of computers for public access in library:06
 - The College of Horticulture and Forestry, Pasighat has upgraded to **2** Nos. ofsmart classrooms for teaching and practical purposes.

(f) Language Laboratory:

Recently the College has setup 30 seater Language Laboratory with **32** nos. of computers for teaching and practicals of the students. A **language laboratory** is a dedicated space for foreign language learning where students access audio or audio- visual materials. They allow a teacher to listen to and manage student audio, which is delivered to individual students through headsets or in isolated 'sound booths.

6.4.10. The information pertaining to 6.4.1 to 6.4.9 shall be provided for each one of UG, PG and PhD Degree Programmes, separately, and to be presented College-wise.

6.4.11. Since the accreditation of Programmes is related to the All India Admission from ICAR and also having weightage for College accreditation, therefore the data presented in the section 6.4 is liable to the verification at any stage.

6.4.12. Certificate (Applicable when SSR is submitted for Programme) I, the Dean **Dr. B. N. Hazarika** hereby certify that the information contained in the Section 6.4.1 to 6.4.9 are furnished as per the records available in the college, and degree awarding university.

Uean Litural University

Signature of Dean of the College with Date & Seal



उद्य**ान एव**ं व**ाग्नक**ी मह**ाग्वद्या**लय

College of Horticulture and Forestry

के द्रेीय कृ न ि नवश्वनवद्यालय, पासीघाट-७९११०२, अरुणाचल एरदेश

STUDENTS FEEDBACK FORM

Name of the student	:	Dr. Pempa Lamu Bhutia
Admission no.	:	01F/2007
Academic Year	:	2007-2011
Name of the	:	B.Sc. Forestry
programme studied		
Designation	:	Scientist
Mobile No.	:	9381680479
Email id	:	pempadenzongpa66@gmail.com

Feedback:

S.No.	Parameters	Rating
1.	Curriculum & Syllabi of the courses provide sufficient	3
	knowledge in the area of study, has good balance between theory and application and fulfilling your expectation.	
2.	Usage of teaching aids and ICT in the class by faculty to facilitate teaching and give quality education.	1
3.	Teaching quality, fairness in the assessment processes(Internal evaluation, Quiz, Assignments, etc.) and freedom to adopt new techniques/education tools	1
4.	Opportunities in the College for Research Activities & Relevance with Practical / Lab work	2
5.	Curriculum has prospects for supporting higher education, career orientated/employability	2
6.	Overall Learning Experience	2

*Select your ranking on the scale of 1 to 5 for each of the following parameters. (1-Excellent, 2- Very good, 3- Good, 4- Fair, 5- Poor)

Recommendations if any for course improvement:

Leepe

Signature of the student

Date:19/05/2021



College of Horticulture and Forestry

के द्रीय कृ न िि नवर्गनवद्यालय, पासीघाट-७९११०२, अरुणाचल प्रदेश

STUDENTS FEEDBACK FORM

Name of the student	:	Jasmine Pabin
Admission no.	:	03(M)F-18
Academic Year	:	2018-2020
Name of the programme studied	:	M.Sc Forestry
Designation	:	Student
Mobile No.	:	8131052482
Email id	:	jasminepabin0697@gmail.com
Feedback		

S.No.	Parameters	Rating
1.	Curriculum & Syllabi of the courses provide sufficient	1
	knowledge in the area of study, has good balance between	
	theory and application and fulfilling your expectation.	
2.	Usage of teaching aids and ICT in the class by faculty to	1
	facilitate teaching and give quality education.	
3.	Teaching quality, fairness in the assessment processes	2
	(Internal evaluation, Quiz, Assignments, etc.) and freedomto	
	adopt new techniques/education tools	
4.	Opportunities in the College for Research Activities &	3
	Relevance with Practical / Lab work	
5.	Curriculum has prospects for supporting higher education,	1
	career orientated/employability	
6.	Overall Learning Experience	2

*Select your ranking on the scale of 1 to 5 for each of the following parameters. (1-Excellent, 2- Very good, 3- Good, 4- Fair, 5- Poor)

Recommendations if any for course improvement:

Jasmine

Date: 19-05-21

Signature of the student



College of Horticulture and Forestry

के द्रीय कृ न िि नवर्गनवद्यालय, पासीघाट-७९११०२, अरुणाचल प्रदेश

STUDENTS FEEDBACK FORM

Name of the student		
	:	UNSHANI DARYAL
Admission no.	:	02F(M)-18
Academic Year	:	2018-2020
Name of the programme studied	:	M.Sc. (Hons)Forestry
Designation	:	Student
Mobile No.	:	8132814970
Email id	:	unshanidaryal0@gmail.com

Feedback:

S.No	Parameters	Rating
1.	Curriculum & Syllabi of the courses provide sufficient	3
	knowledge in the area of study, has good balance between	
	theory and application and fulfilling your expectation.	
2.	Usage of teaching aids and ICT in the class by faculty to facilitate teaching and give quality education.	4
3.	Teaching quality, fairness in the assessment processes (Internal evaluation, Quiz, Assignments, etc.) and freedom to adopt new techniques/education tools	3
4.	Opportunities in the College for Research Activities & Relevance with Practical / Lab work	5
5.	Curriculum has prospects for supporting higher education, career orientated/employability	5
6.	Overall Learning Experience	3

*Select your ranking on the scale of 1 to 5 for each of the following parameters. (1-Excellent, 2- Verygood, 3- Good, 4- Fair, 5- Poor)

Recommendations if any for course improvement:

- Teaching aids like Projector should be available & functional in every classroom.
- Course teacher should be appointed for each specific course or at least of same department.
- For final year students, seminars or any of sort related with higher education, careeroriented/employability can be conducted.

Unshani Daryal

Date: 19-05-2021

Signature of the student



College of Horticulture and Forestry

के द्रीय कृ न ि नवर्षनवद्यालय, पासीघाट-७९११०२, अरुणाचल प्रदेश

STUDENTS FEEDBACK FORM

Name	:	FULLMOON PUWEIN
Admn. No.	:	03F(M)/2017
Academic Year	:	2017-18
Name of the programme studied	:	M.Sc. (FORESTRY) PLANTATION TECHNOLOGY
Designation	:	NONE
Mobile number	:	8837425726
Email ID	:	13bscagh007@gmail.com

Feedback

S.N.	Parameters	Ranking*
1.	Curriculum & Syllabi of the courses provide sufficient knowledge in thearea of study, has good balance between theory and application and fulfilling your expectation.	2
2.	Usage of teaching aids and ICT in the class by faculty to facilitateteaching and give quality education.	3
3.	Teaching quality, fairness in the assessment processes (Internalevaluation, Quiz, Assignments, etc.) and freedom to adopt new techniques/education tools	2
4.	Opportunities in the College for Research Activities & Relevance withPractical / Lab work	3
5.	Curriculum has prospects for supporting higher education, careerorientated/employability.	4
6.	Overall Learning Experience	1

*Please give your valuable feedback on curriculum to improve quality of the programme. Select your ranking on the scale of 1 to 5 for each of the following parameters. (1-Excellent, 2- Very good, 3- Good, 4- Fair, 5- Poor)

Recommendations if any for course improvement: (1). Improvement in Lab facilities in almost all Dept. is need. (2). Increase in strength of the faculties in Forestry Dept. especially in the field of agroforestry, forest pathology, forest entomology and NRM related subject.

-funcio

(3). Provide study tour for P.G students. Date: 5/11/2020

Signature of Student



उद्यान एवम् वानिकी महाविद्यालय केन्द्रीय कृषि विश्वविद्यालय पासीघाट–७९,११०२, अरुणाचल प्रदेश

COLLEGE OF HORTICULTURE AND FORESTRY Central Agricultural University Pasighat-791102, Arunachal Pradesh

STUDENTS FEEDBACK FORM

Name	:	LAPYNSUK JANA
Admn. No.	:	01F(M)-2015
Academic Year	:	2015-2017
Name of the programme studied		MASTER OF SCIENCE IN FORESTRY
Present Designation & Work Profile	:	 Assistant Technology Manager (ATM) at Agricultural Technology Management Agency (ATMA). Work profile:- To provide requisite technical & knowledge support to farm school, FF, FIGs/CIGs/FSGs/FPOs and farmers in general. In consultation with Block level officers of agri. and allied departments & BTMs, ATMs will provide necessary inputs to Common Service Centers & Kisan Call Centres. Any other work assigned by BTM.
Mobile number & email ID	2	7640935490 (lapzzjana.1991@gmail.com)

Feedback

S.N.	Parameters	Ranking*
1.	Curriculum & Syllabi of the courses provide sufficient knowledge in the area of study, has good balance between theory and application and fulfilling your expectation.	2
2.	Usage of teaching aids and ICT in the class by faculty to facilitate teaching and give quality education.	3
3.	Teaching quality, fairness in the assessment processes (Internal evaluation, Quiz, Assignments, etc.) and freedom to adopt new techniques/education tools	2
4.	Opportunities in the College for Research Activities & Relevance with Practical / Lab work	4
5.	Curriculum has prospects for supporting higher education, career orientated/employability.	2
6.	Overall Learning Experience	2

*Please give your valuable feedback on curriculum to improve quality of the programme. Select your ranking on the scale of 1 to 5 for each of the following parameters. (1- Excellent, 2- Very good, 3- Good, 4- Fair, 5- Poor)

Recommendations if any for course improvement :

- 1. **Introduce technology in the classroom** i.e., Using videos, free online resources and digital tools that can be easily implemented in the classroom. As students they are more adept with technological skills, so by integrating technology into the classroom it will instantly help students to learn better and faster.
- 2. More Opportunities in the College for Research Activities & Relevance with Practical / Lab work i.e., to invest in research. Due to lack of resources such as tools, implements and also lack of proper laboratory, a student is unable to perform his/ her research in a proper manner. Therefore, Investment in research is needed as it helps in improvement of institution's reputation not only that but also a good research work does help in the future of a student.

Date: 7.11.2020.

d. Jana. Signature of Student

1.7

College of Horticulture and Forestry

के द्रे ये कृ न ि नवश्ग्नवद्यालय, पासीघाट-७९११०२, अरु णाचल एरदेश

STUDENT FEEDBACK FORM

Name	:	Nepuni Rinaldi
Admn. No.	:	01F(M)-2016
Academic year	:	2016-2017
Name of the programme studied	:	M.Sc. Forestry (Plantation Technology)
Present Designation & work profile	:	Project Associate
Mobile no.	:	6909787273
Email id	:	rinaldinepuni03@gmail.com

Feedback

S.N.	Parameters	Ranking*
1.	Curriculum & syllabus of the course provide sufficient knowledgein the area of study, has good balance between theory and application and fulfilling your expectation.	1
2.	Usage of teaching and aids ICT in the class by faculty to facilitate teaching and give quality education.	2
3.	Teaching quality, fairness in the assessment processes (internal evaluation, quiz, assignment, etc) and freedom to adopt newtechnique/ education tools.	1
4.	Opportunities in the college for research activities & relevance with practical/ lab work.	2
5.	Curriculum has prospects for supporting higher educations, career oriented/employability.	2
6.	Overall learning experience	2

*Please give your valuable feedback on curriculum to improve quality of the programme ranking on the scale of 1 to 5 for each of the following parameters (1- excellent, 2- Very Good, 3-Good, 4- Fair, 5-Poor)

Recommendation if any for the course improvement :

Date: 8/11/2020

Nepuni Rimaldi

Student signature



College of Horticulture and Forestry

के द्रे य कृ न ि नवश्गनवद्यालय, पासीघाट-७९११०२, अरु णाचल एदेश

STUDENTS FEEDBACK FORM

Name	: Guruaribam Nishanta Sharma
Admn. No.	: 02F(M)-2017
Academic Year	: 2017
Name of the programme studied	: M.Sc. Forestry (Plantation Technology)
Present Designation & work profile	:
Mobile number & email ID	: 7005013821 gurunishanta@gmail.com

Feedback

S.N.	Parameters	Ranking*
1.	Curriculum & Syllabi of the courses provide sufficient knowledge in the	2
	area of study, has good balance between theory and application andfulfilling your expectation.	
2.	Usage of teaching aids and ICT in the class by faculty to facilitate	3
	teaching and give quality education.	
3.	Teaching quality, fairness in the assessment	3
	processes (Internal evaluation, Quiz, Assignments,	
	etc.) and freedom to adopt new	
	techniques/education tools	
4.	Opportunities in the College for Research Activities &	3
	Relevance with Practical / Lab work	
5.	Curriculum has prospects for supporting higher	4
	education, careerorientated/employability.	
6.	Overall Learning Experience	2

*Please give your valuable feedback on curriculum to improve quality of the programme. Select your ranking on the scale of 1 to 5 for each of the following parameters. (1-Excellent, 2- Very good, 3- Good, 4- Fair, 5- Poor)

Recommendations if any for course improvement : <u>There is lack of faculty and</u> <u>equipment's requirement for fast completion of the course. Since hostel in compulsory for</u> any course. Kindlycheck the quality of the food provide to the students.

Date: 7 November 2020

Nishanta

Signature of Student

College of Horticulture and Forestry

के द्रेीय कृ न ि नवश्वनवद्यालय, पासीघाट-७९११०२, अरुणाचल एरदेश

STUDENTS FEEDBACK FORM

Name	: Royal L Mihriemate
Admn. No.	: 03F(M)-2016
Academic Year	: 2016-2018
Name of the programme studied	: M.Sc. Forestry (Agroforestry)
Present Designation & work profile	: -
Mobile number & email ID	: 7005807685, royal04@yahoo.com

Feedback:

S.N.	Parameters	Ranking*
1.	Curriculum & Syllabi of the courses provide sufficient knowledge in thearea of study, has good balance between theory and application and fulfilling your expectation.	2
2.	Usage of teaching aids and ICT in the class by faculty to facilitateteaching and give quality education.	3
3.	Teaching quality, fairness in the assessment processes (Internal evaluation, Quiz, Assignments, etc.) and freedom to adopt newtechniques/education tools	2
4.	Opportunities in the College for Research Activities & Relevance withPractical / Lab work	2
5.	Curriculum has prospects for supporting higher education, careerorientated/employability.	2
6.	Overall Learning Experience	2

*Please give your valuable feedback on curriculum to improve quality of the programme. Select your ranking on the scale of 1 to 5 for each of the following parameters. (1- Excellent, 2- Very good, 3- Good, 4- Fair, 5- Poor)

Recommendations if any for course improvement : Better wifi facility for students

Date:7/11/2020

Signature of Student



उद्यान एवम् वानिकी महाविद्यालय केन्द्रीय कृषि विश्वविद्यालय पासीघाट–७६,११०२, अरुणाचल प्रदेश

COLLEGE OF HORTICULTURE AND FORESTRY Central Agricultural University Pasighat-791102, Arunachal Pradesh

STUDENTS FEEDBACK FORM

Name	: TANTULUNG TATAN
Admn. No.	: 04F(M) 2017
Academic Year	: 2017-2019
Name of the programme studied	: M.sc Forestry
Present Designation & Work Profile	: Junior Project Fellow
Mobile number & email ID	: 8837088644 & tailulungtatan170gmail.com

Feedback

S.N.	Parameters	Ranking*
1.	Curriculum & Syllabi of the courses provide sufficient knowledge in the area of study, has good balance between theory and application and fulfilling your expectation.	1
2.	Usage of teaching aids and ICT in the class by faculty to facilitate teaching and give quality education.	1
3.	Teaching quality, fairness in the assessment processes (Internal evaluation, Quiz, Assignments, etc.) and freedom to adopt new techniques/education tools	1
4.	Opportunities in the College for Research Activities & Relevance with Practical / Lab work	1
5.	Curriculum has prospects for supporting higher education, career orientated/employability.	1
6.	Overall Learning Experience	1

*Please give your valuable feedback on curriculum to improve quality of the programme. Select your ranking on the scale of 1 to 5 for each of the following parameters. (1- Excellent, 2- Very good, 3- Good, 4- Fair, 5- Poor)

Recommendations if any for course improvement : The PG students should be Send outside tou toaining programme

Signature of Student

Date: 07 11 20



COLLEGE OF HORTICULTURE AND FORESTRY Central Agricultural University Pasighat-791102, Arunachal Pradesh

STUDENTS FEEDBACK FORM

Name	: PHURAILATPAM CHETANKUMAR SHARMA
Admn. No.	: $01F(m) - 2017$
Academic Year	: 2017-19
Name of the programme studied	M.Sc. Forestry
Present Designation & Work Profile	:
Mobile number & email ID	: 8837313527 & mistoganck @gmail.com

Feedback

S.N.	Parameters	Ranking*
1.	Curriculum & Syllabi of the courses provide sufficient knowledge in the area of study, has good balance between theory and application and fulfilling your expectation.	1
2.	Usage of teaching aids and ICT in the class by faculty to facilitate teaching and give quality education.	1
3.	Teaching quality, fairness in the assessment processes (Internal evaluation, Quiz, Assignments, etc.) and freedom to adopt new techniques/education tools	2
4.	Opportunities in the College for Research Activities & Relevance with Practical / Lab work	5
5.	Curriculum has prospects for supporting higher education, career orientated/employability.	3
6.	Overall Learning Experience	2

*Please give your valuable feedback on curriculum to improve quality of the programme. Select your ranking on the scale of 1 to 5 for each of the following parameters. (1- Excellent, 2- Very good, 3- Good, 4- Fair, 5- Poor)

Recommendations if any for course improvement : Need for a deption of an exam system where answers to each question are to be written within a specified work limit (as practiced in UPSC main examinations). This will make students more creative to complete the answer while maintaining the work limit.

Chilles Dh.

Date: 9/11/2020

Signature of Student



College of Horticulture and Forestry

के द्रीय कृ न ि नवर्गनवद्यालय, पासीघाट-७९११०२, अरुणाचल प्रदेश

STUDENTS FEEDBACK FORM

Name of the student	:	SEEMA CHETTRI
Admission no.	:	01F(M)2018
Academic Year	:	2018-2020
Name of the programme studied	:	M. Sc. Forestry
Designation	:	Student
Mobile No.	:	7641018487
Email id	:	cmachettri2403@gmail.com

Feedback

S.No.	Parameters	Rating
1.	Curriculum & Syllabi of the courses provide sufficient knowledge in the area of study, has good balance between theory and application and fulfilling your expectation.	1
2.	Usage of teaching aids and ICT in the class by faculty to facilitate teaching and give quality education.	2
3.	Teaching quality, fairness in the assessment processes (Internal evaluation, Quiz, Assignments, etc.) and freedomto adopt new techniques/education tools	2
4.	Opportunities in the College for Research Activities & Relevance with Practical / Lab work	3
5.	Curriculum has prospects for supporting higher education, career orientated/employability	2
6.	Overall Learning Experience	2

*Select your ranking on the scale of 1 to 5 for each of the following parameters. (1- Excellent, 2- Very good, 3- Good, 4- Fair, 5- Poor)

Recommendations if any for course improvement: More practical exposures and RHWE/FWE attachments in our own state departments would help strengthen our knowledge plus practicability in our own fields.

Seem Chetti

Date:18-05-2021 student Signature of the

SELF STUDY REPORT



for

M.Sc. Horticulture (Floriculture & Landscaping) COLLEGE OF HORTICULTURE & FORESTRY CENTRAL AGRICULTURAL UNIVERSITY, PASIGHAT ARUNACHAL PRADESH



SUBMITTED TO

NATIONAL AGRICULTURAL EDUCATION ACCREDITATION BOARD, ICAR, NEW DELHI

6.4. Self-Study Report for M.Sc. Horticulture (Floriculture & Landscaping)

6.4.1. Brief History of the Degree Programme:

The College of Horticulture and Forestry, Pasighat, Arunachal Pradesh was established on 7th March, 2001 as a constituent College of the Central Agricultural University, Imphal, Manipur with the admission of 17 UG students in the first batch of B Sc. Horticulture. Since then, the college offers B.Sc. (Hons.) Horticulture, B.Sc. (Hons.) Forestry, M.Sc. (Horticulture in Fruits, Vegetable Science, Floriculture & Landscaping), M.Sc. (Forestry) and Ph.D. (Horticulture in Fruits and Vegetable Science). Master's degree in Floriculture & Landscaping started in August, 2018. This campus is located in a serene atmosphere at Pasighat, the educational capital of the state as well as the first Smart City of Arunachal Pradesh. The mighty Siang River flows in the northern vicinity of the campus which is about 2.5 km from the town. The College is spread over an area of 145 acres neighbouring one of the oldest institutes of the NE India, the Jawaharlal Nehru College, established in 1964. The college has 11 full-fledged departments with well equipped manpower.. The curriculum and syllabi of all degree programmes are updated and adopted as per the ICAR guidelines. The currently implemented syllabus is 19th BSMA, 2021.

The prime objectives of this college include imparting horticulture and forestry education and meeting the research and extension needs of the NE Region in general and for each state of the region in particular. The M.Sc. programme in Floriculture & Landscaping is conducted with strength of four students per year. The enrolled scholars are entitled with university fellowship of Rs.3000/- per month. At present, the department is empowered with one Professor, one Associate Professor and one Assistant Professor besides qualified and experienced non-teaching staffs. The broad objectives of the Department of Floriculture and Landscaping are given hereunder:

- a) To impart need based quality education and human resource development for the Under Graduates, Post Graduates and Ph. D Scholars in the stream of horticulture in general and Floriculture & Landscaping in particular.
- b) To carry out basic and applied research for crop improvement and development of production technology in important flower crops.
- c) To strengthen the germplasm repository of commercial flower crops and native ornamental plants.
- d) To undertake the extension programmes of transferring proven technologies to all the stakeholders of horticulture in general and flower cultivation in particular in each of the states under the jurisdiction.

e) To undertake such other activities as it may deem fit and responding to the call of the Government, University and farmers from time to time.

Accomplishments:

Till date, one student has been awarded the degree of Master of Science (Horticulture) in Floriculture and Landscaping from this college.

SI.	Name of the	Present position	Year of
No.	student		Completion
1.	Ms. Khaling	Pursuing PhD in Floriculture and Landscaping at	2022
	Lallemoi	SKUAST, Srinagar, J&K	

6.4.2. Faculty Strength

Faculty strength (as per ICAR guidelines) in the Department of Floriculture & Landscaping:

Sr. No.	Sanctioned Faculty Position	Post Filled	Post Vacant	Faculty Recommended by the ICAR/UGC/VCI/other regulatory bodies
1.	Professor	1	0	1
2.	Associate Professor	1	1(Advertised)	1
3.	Assistant Professor	1	1(Advertised)	2
	Total	3	1	4

Faculty strength (as per ICAR guidelines) in the supporting Departments:

Sr. No.	Sanctioned Faculty	Faculty in Place	Vacant Position	Faculty Recommended by the ICAR/UGC/VCI/other regulatory bodies			
	Department of Vegetable Science						
1.	Professor	-	1	1			
2.	Associate Professor	1	-	1			
3.	Assistant Professor	2	2	4			
	Department of Fruit Science						
1.	Professor	-	2	1			
2.	Associate Professor	2	1	2			

3.	Assistant Professor	4	1	3				
	Department of Post Harvest Management:							
1.	Professor	-	-	1				
2.	Associate Professor	-	-	1				
3.	Assistant Professor	2	-	2				
	Department of Basic Sciences							
1.	Professor	-	-	1				
2.	Associate Professor	1	-	2				
3.	Assistant Professor	6	-	6				
	Department of Plant Protection-							
1.	Professor	1	-	1				
2.	Associate Professor	2	-	2				
3.	Assistant Professor	3	-	3				
	Department of Natural Resource Management							
1.	Professor	1	-	1				
2.	Associate Professor	2	-	1				
3.	Assistant Professor	2	-	6				
	Department of Social Science							
1.	Professor	-	-	1				
2.	Associate Professor	1	-	1				
3.	Assistant Professor	3	-	5				

6.4.3. Technical and Supporting Staff

Strength in the Department of Fruit Science:

Sr. No.	Sanctioned Faculty Position	Post Filled	Post Vacant	Faculty Recommended by the ICAR/UGC/VCI/other regulatory bodies
1.	Field cum Lab Assistant	1	-	_
2.	MTS	1	-	-
3.	Contractual Labour (out sourced)	1 (Department) 1 (AICRP	-	-

	Floriculture)		
	1 (DBT)		
Total	11	-	-

Strength in the College:

Sl. No.	Sanctioned staff	Staff in Place	Vacant post	Staff Recommended by the ICAR/UGC/ VCI/other regulatory bodies
A.	Establishment Branch			
1.	Assistant Registrar (Estt.)	01	-	
2.	Assistant Registrar	-	02	
	(Acad.)			
3.	Assistant Comptroller	-	01	
4.	Security Officer	-	01	
5.	Accountant	01	02	
6.	UDC	02	-	
7.	Clerk-cum-Typist/LDC	11	10	
8.	Computer operator	01	-	
9.	Security Guard	02	-	
В.	Estate Branch			
1.	Asstt. Engineer/Asstt.	01	-	
	Estate Officer			
2.	Junior Engineer (Civil &	02	-	
	Mechanical)			
3.	Electrician	01	-	
4.	Plumber	01	01	
5.	Drivers including Tractor	05	04	
	Driver			
C.	Library			
1.	Librarian	01	-	
2.	Sr. Library Assistant	-	01	
3.	Library Assistant	03	-	

S	l. o.	Sanctioned staff	Staff in Place	Vacant post	Staff Recommended by the ICAR/UGC/ VCI/other regulatory bodies	
А.		Establishment Branch				
D.		Health				
	1.	Medical Officer	01**	01		
	2.	Compounder cum Dresser	01	-		
	3.	Medical Attendant	02	-		
Е.		Student Welfare				
	1.	Students Welfare Officer	01*	01		
	2.	Assistant	01	-		
F.		Hostels		•		
	1.	Chief Warden	01*	-		
	2.	Warden	05*	-		
	3.	Caretaker/Helpers	10***			
G.		Technical & Supporting Staff for Departments, Estate, Hostels & others				
	1.	Horticulture Assistant	01	-		
	2.	Live Stock	04	01		
		Assistant/Farm Asstt.				
	3.	Field-cum-Lab-Assistant	21	06		
	4.	Multi Tasking Staff	47	44		
		(MTS)				

* Assistant Professor Cadre holding additional charge

** Contractual Recognised Medical Practitioner

*** MTS with assigned specific duty

6.4.4. Classrooms and Laboratories:

d) Number of class rooms: 13

All class rooms are provided with LCD projectors and audio-visual aids for better delivery of lectures. The faculties use power point presentations to make the concepts/techniques clearly understandable to the students. The important lectures are taught with videos. A table, podium, whiteboards/screen, black board with duster are
available in each class room for the use of teachers. A common generator facility supplies power to all the classrooms to avoid interruption of the class during power failure.

Sr. No.	Department/Section	Area (Sq	Remarks
		mtr)	
1.	Floriculture and Landscape Architecture		
	One Laboratory		Equipped with all necessary
		82	instruments & lab infrastructure with
			basins, water, electricity, sitting
			arrangements etc.
2.	Fruit Science	I	
	(i) Two Laboratory		Equipped with all necessary
		98 and 82	instruments & lab infrastructure with
			basins, water, electricity, sitting
			arrangements etc.
3.	Vegetable Science	I	
	One Laboratory		Equipped with all necessary
		82	instruments & lab infrastructure with
			basins, water, electricity, sitting
			arrangements etc.
4.	Post-Harvest Manageme	nt	
	One Laboratory		Equipped with all necessary
		72	instruments & lab infrastructure with
			basins, water, electricity, sitting
			arrangements etc.
			Equipment for processing of
			horticultural produces.
5	Forest Product Utilization	n	
	Medicinal and Aromatic	160	Equipped with all the modern
	Plants Laboratory		equipments for practical, sitting
			arrangements, Distillation,
			extraction facilities, etc.
	Wood Products and	90	Facilities for characterization of
	Utilization Laboratory		morphological, anatomical,

b) Functional laboratories (Floriculture & allied): 13 nos.

			mechanical & chemical properties of
			timber. Other work carried out -
			wood design, fabrication ,etc.
6	Tree Improvement & PB	G	
	TIM Laboratory		Equipped with instruments for
		72	research & practicals. Water basins
			fitted in the laboratory for proper
			drainage of water and chemicals.
7	Basic Sciences		
	UG Basic Science	28	Biochemical, biotechnological &
	Laboratory		microbiological practical & research
	PG Basic Science	28	needs of students are being fulfilled.
	Laboratory		
	Tissue Culture	47	
	Laboratory		
	Computer Laboratory	48	The lab is used for conducting
			Practical classes for PG students
			equipped with 15 computer & 2
			printers for student access. Internet
			band width/ speed: 32Mbps.
8	Plant Protection		
	Entomology	72	Facilities equipped for research
	(Biocontrol)		work on crop pests management &
	Laboratory:		production of biocontrol agents
	Entomology (IBDC)	85	
	Laboratory :		
	Pathology Laboratory	144	Production of Mushroom spawn and
	(Mushroom):		other microbial research work
	(Sterilization room,		carried-out.
	Boiling room)		
	Pathology (Mushroom	45	For inoculating mushroom. The
	inoculation):		laboratory is also equipped with
			culturing and spawns production
9	Natural Resource Manag	gement	

	Soil Science &		The laboratory is equipped with
	Agricultural Chemistry	100	various facilities to analyse the soil
	Laboratory		samples, related to various degree
			programmes (UG, P.G and Ph.D) of
			Agriculture, Horticulture and
			Forestry.
10	Silviculture & Agro-fores	stry	
	SAF Laboratory	98	Equipped with all necessary
	SAF Laboratory	98	Equipped with all necessary instruments & lab infrastructure
	SAF Laboratory	98	Equipped with all necessary instruments & lab infrastructure with basins, water, electricity,
	SAF Laboratory	98	Equipped with all necessary instruments & lab infrastructure with basins, water, electricity, sitting



Molecular work undergoing in orchids



In vitro Propagation of Dendrobium Orchid

c) Lists of major equipments:

The laboratories are well equipped to conduct the practical/hands on training to the students with instruments, laboratory tables, basins, irrigation facilities, electrical and ventilations, adequate wooden furniture etc. The lists of instruments/ equipments available in the laboratories are furnished below.

<u>S.No</u> .	Name of the equipment	<u>S.No</u> .	Name of the equipment
1.	pH meter	2.	Incubator
3.	Refrigerator	4.	Magnetic stirrer
5.	Hot air oven	6.	Digital balance

(i) Department of Floriculture and Landscape Architecture

7.	Seed germinator	8.	Camera
9.	Lux meter	10.	Computer with accessories
11.	Distillation apparatus	12.	Electronic balance
13.	Environmental test chamber	14.	Hot plate

(ii). Department of Fruit Science:

<u>S.No</u> .	Name of the equipment	<u>S.No</u> .	Name of the equipment
1.	Autoclave	13.	Hot Water Bath
2.	Digital Camera	14.	Polymerase Chain Reaction (PCR)
3.	Digital Weighing Balance	15.	Magnetic stirrer Atomic Absorption
			Spectrophotometer
4.	One Single Distillation Unit	16.	Hand refractometer
5.	One Double D.U	17.	Tissue culture lab Digit
6.	Electronic Balance (two)	18.	Lux meter
7.	Precision Balance	19.	Portable Penitrometer
8.	Hot Air Oven	20.	Flame Photometer
9.	BOD Incubator	21.	Muffle Furnace
10.	Ordinary Balance (Two)	22.	Microwave Oven
11.	Cooling Centrifuge	23.	Tabletop Centrifuge (two)
12.	pH meter	24.	Two Refrigerators (-20 ^o C)

(iii). Department of Vegetable Science:

<u>S.No</u> .	Name of the equipment	<u>S.No</u> .	Name of the equipment
26.	pH meter	27.	Conductivity meter
28.	Deep freezer	29.	Magnetic stirrer
30.	Hot air oven	31.	Olympus microscope (Binocular)
32.	Laminar flow	33.	Camera
34.	Seed germinator	35.	Computer with accessories
36.	Seed dryer	37.	Digital balance
38.	Distillation apparatus	39.	Lux meter

40.	Electronic balance	41.	Hand refractometer
42.	Horizontal autoclave	43.	Dissecting microscope
44.	Vertical autoclave	45.	Microscope trinocular stereo zoom model carl ziess stemi 2000 C
46.	Water bath	47.	AC fitted lab facilities
48.	Variable volume pipette	49.	Tissue culture lab
50.	Processing units		

(iv). Department of Post-Harvest management

<u>S.No</u> .	Name of the equipment	<u>S.No</u> .	Name of the equipment
1.	Tray drier	2.	Hot air oven
3.	Water bath	4.	Crown corking machine
5.	Conductivity meter	6.	Refractometer
7.	Weighing balance	8.	Micro-centrifuge
9.	Mechanical shaker	10.	pH meter

(v). Department of Tree Improvement & Plant Breeding Genetics

S.No.	Name of the equipment	S.No.	Name of the equipment
1.	Digital Magnetic Stirrer	2.	Precision Balance
3.	Hot Plate with Magnetic Stirrer	4.	Microscope
5.	Water bath	6.	Seed drier
7.	Refrigerator	8.	Plant press
9.	Seed Germinator	10.	Electronic Balance

(vi). Department of Basic Sciences:

UG Basic Science Laboratory:

S.No.	Name of the equipment	S.No.	Name of the equipment
1.	pH meter	2.	Centrifuge

3.	Autoclave	4.	Microscope
5.	Cooling water bath	6.	Refrigerator
7.	Hot plate	8.	Ice-flaking machine

PG Basic Science Laboratory:

S.No.	Name of the equipment	S.No.	Name of the equipment
1.	Microwave oven	2.	Weighing balance
3.	Refrigerator	4.	Weighing balance
5.	Oven	6.	Microscope

Tissue Culture Laboratory:

S.No.	Name of the equipment	S.No.	Name of the equipment
1.	Laminar flow	2.	Weighing machine
3.	HPLC (under repair)	4.	Ultraviolet Transilluminator
5.	PCR Machine	6.	Gas Chromatography

(vii). Department of Plant Protection

Entomology (Biocontrol) Laboratory:

S.No.	Name of the equipment	S.No.	Name of the equipment
1.	Autoclave	2.	Fermenter
3.	Binocular microscope (CH20i Olymp)	4.	Humidity cabinet
5.	Distillation unit	6.	Laminar airflow

Entomology (IBDC) Laboratory:

S.No.	Name of the equipment	S.No.	Name of the equipment
1.	Honey extractor (10frames)	2.	Honey processing plant (Cap. 250
			Kg)
3.	Honey bottling machine	4.	Automatic Honey bottle Dryer

5.	Honey Bottle sealing machine	6.	Honey comb foundation mill
7.	Gel Electrophoresis	8.	Refrigerated table top centrifuge
9.	Deep freezer, Water bath (digital)	10.	BOD incubator
11.	Quartz Boiler & Quartz	12.	Autoclave Horizontal
	condenser		
13.	Laminar air flow (Vert.)	14.	Weighing balance
15.	Bionocular microscope	16.	Multimedia projector
17.	Nikon Camera d5300	18.	Water Bath
19.	Serological Water bath	20.	Distillation unit

Pathology Laboratory:

S.No.	Name of the equipment	S.No.	Name of the equipment
1.	Autoclave	2.	Chalk powder mixture
3.	Grain Boiler	4.	Spawn Bag filler
5.	Laminar flow	6.	Distillation Unit
7.	Shrink wrap machine	8.	Microscope (Zeiss)
9.	Spectrophotometer	10.	Micro-oven
11.	Refrigerator	12.	Hygrometer
13.	Camera lucida	14.	Stage & ocular micrometer
15.	Haemocytometer	16.	Student microscope
17.	Digital balance	18.	BOD incubator
19.	Illuminator		

(viii). Department of Natural Resource Management

Soil Science & Agricultural Chemistry Laboratory:

S.No.	Name of the equipment	S.No.	Name of the equipment
1.	Hot Air Oven	2.	Hot Plate
3.	Water Bath	4.	Plastic Jars
5.	Mechanical Shaker	6.	pH Meter
7.	Required Glasswares &	8.	EC Meter

	plasticwares		
9.	Required Reagents	10.	Analytical Balance
11.	Keen Box	12.	Nitrogen Analyser
13.	Moisture Box	14.	Colorimeter
15.	Single Distillation Set / Unit	16.	Spectrophotometer
17.	Double Distillation Set / Unit	18.	Flame Photometer
19.	Sieves	20.	Wooden Mallet
21.	Atomic Absorption		
	Spectrophotometer		

Forest Surveying/ Engineering Facility

S.No.	Name of the equipment	S.No.	Name of the equipment
1.	Total Station	2.	Plane table with accessories
3.	Dumpy Level	4.	Chain Surveying& accessories
5.	Abney's Level	6.	GPS
7.	Hand Level	8.	Digital Planimeter
9.	Current Meter	10.	Levelling survey accessories

Farm Power, Machineries and Irrigation Infrastructures

S.No.	Name of the equipment	S.No.	Name of the equipment
1.	Tractor 275 DI	2.	Tractor 575 DI
3.	Tractor 605 DI	4.	Tractor Bull Excavator
5.	Rotavator	6.	Cultivator
7.	Disc Harrow	8.	M.B. Plough
9.	Disc Plough	10.	Tractor Operated Potato Planter
11.	Tractor Operated Sprayer	12.	Ridge Maker
13.	Tractor operated Seed Drill	14.	Trolley
15.	Tanker	16.	Multi crop Thresher

17.	Tractor Operated Lawn Mower	18.	Power Tiller
19.	Sprinkler Irrigation System	20.	Drip Irrigation System
21.	Hand Tools & Implements	22.	Sprayers

d) Laboratories

The College of Horticulture and Forestry, Pasighat which is well equipped to conduct practical classes for UG, PG and PhD programmes.

Table 1: Area covered under the laboratories of different departments

Sl. No.	Laboratories under different departments	Area (sq. meter)
1.	Soil Science	150
2.	Plant Pathology	95
3.	Entomology	20
4.	Genetics and Plant Breeding	74
5.	Agronomy	90
6.	Plant Biotechnology	90
7.	Plant Biochemistry	90
8.	Horticulture	
	i. Post-harvest	90
	ii. Floriculture	90
	iii. Vegetable Science	90
	iv. Fruit Science	90
9.	Statistics, Computer Application & IPR	59

Besides these laboratories, the following facilities are also available at College of Horticulture and Forestry, Pasighat.

Infrastructure facilities available in CHF Pasighat

Infrastructure	Area (sq. meter)
Workshop	1000
Dairy Plant	90
Poultry Unit	72
Pond	1500

The water from the pond is used for the purpose of drip and sprinkler irrigation, gravity fed irrigation etc. The workshop which is maintained by the Engineering Unit is well designed with sufficient land area and build infrastructure with required farm machineries such as tractors, power tillers, cultivators, leveller, rotavator, and other farm implements for day-to-day work related to research purpose.

Instructional Farm

A total of 16 instructional farms are established under various departments of the college, the details of which are listed below:

	Department/Section	Area	Facilities available
		(Sq.mtr.)	
	Nat	ural Resource	e Management
1.	Farm Power & Irrigation	1500	• Run-off Experiment Facility
	Infrastructures		• Rain water Harvesting Based
			Integrated Horticulture Farming
			System
			• WHP=5 Lakh Litre Capacity
			• 5hp Solar Pumping System
			•Naturally Ventilated Greenhouse=
			30m×7m
			•Drip irrigation system operated by
			Solar Pump
			• Sprinkler Irrigation System operated
			by solar pump
			• Gravity fed drip Irrigation System in
			500sq.m area
			• Basic Power Machineries available
2.	Agrometeorology	500	• Meteorological observation data for
	Observatory		Research and Academic purpose
		Horticult	ure
3.	Medicinal & Aromatic plant	12000	• Germplasm of Medicinal and
	farm		Aromatic Plants

Department wise infrastructural details of CHF Pasighat

4.	Medicinal plant germplasm		• Collection of rare and endangered
	block		spps.
			• Nursery beds
			• Shade houses/roofs
			• Irrigation & electric facilities
5.	Herbal garden	10000	• More than 160 species
			• Research, conservation &
			identification purpose
6.	Floriculture and Landscaping	20000	• 9 numbers of polyhouses
			• Germplasm bank of orchids & native
			ornamental plants
			• Commercial cut flower block of
			orchids, anthurium, gerbera, and
			heliconia
			• Collection of indoors plants, cactus
			and annual flowers
7.	Vegetables science	35543	• Demonstration block on nutrition
			garden and other vegetable crops
			• Turmeric and spices processing unit
			• Hi-tech poly house (3 nos.)
			• Naturally ventilated polyhouses (2
			nos.)
			• Water harvesting tanks
			• Solar power operated sprinkler
			irrigation system
			• Local vegetable garden
			• Vegetable nursery block
8.	Fruit Department	98525	• Fruit nursery block
			• Demonstration & experimental block
			of coconut, passion fruit block, litchi,
			Jack fruit, Aonla, cashewnut, Mango,
			banana, Oil palm, Pumello and
			Assam lemon.

9. PBG farm	1800	• Nursery raised bed= 20 Nos.
		• Shade net house (15x15m)
		• Tokkopatta (thatched) shade roofs:
		10nos.
		• Arboretum 1100 sq. mtr.
		• Irrigation & electricity setups
	Plant Prote	ection
10. Entomology (Biocontrol)	4047	• Nursery Beds, Research plots
Farm		• Water Pump with motor, Irrigation &
		electricity setups
11. Entomology (IBDC) Farm	2023	• All major equipments of beekeeping
		• Irrigation facility
		• Plots for nectar yielding plant
12. Pathology Farm	1083	• Disease Diagnostic Field
		• Students demonstration plot
		• Nursery beds
		• irrigation & electric facilities.
13. Paddy straw boiling unit and	1350	• Boiling unit
mushroom House		• Facilities for mushroom culture &
		production
		•Unit has more than 250 species of
		edible and poisonous mushroom
		species



Evaluation of Tuberose Germplasms



Irrigation of chrysanthemum field



Evaluation of Chrysanthemum Germplasms



Field Experiment on Gladiolus



Evaluation of growing media on gerbera and disease management in Anthuriums

(e) Justification:

The laboratories, nurseries, protected structures and experimental farms under the Department of Floriculture and Landscaping as well as those of all other supporting departments are well equipped with all the necessary equipments and facilities to accomplish the proposed research activities. All the basic chemicals and instruments are available for doing practical and research work in all the laboratories, nurseries and farm. The Farm facilities, workshops and other instructional units are well designed with sufficient land area and build infrastructure, irrigation, electricity and required farm machineries supported with tractors, power tillers, cultivators, leveller, rotavator, and other farm implements for day-to-day work and research purpose to meet the course curricula and research requirements.

(f) Theory and practical batches for the M.Sc. Degree Programme: The numbers of intake students are manageable with available facilities. Average number of students in theory & practical classes at any time of the year:

C N	Particulars of	Batch of student in	Batch of student in
5.11.	curricula	Theory	Practical
1.	Floriculture &	4 (1batch)	4 (1batch)
	Landscaping (Major)		
2.	Supporting courses	14 (1batch)	14 (1batch)

The class rooms and laboratories are sufficient enough to meet course curricula requirement of the degree programme.

6.4.5. Conduct of Practical and Hands-on-Training:

- a) On the basis of academic calendar prepared by the university for the academic session for the effective implementation of the curriculum, the theory and practical classes are conducted at the experimental fields and laboratories of the Department of Floriculture and Landscaping and allied departments. The M.Sc. and Ph.D courses involve conducting field/ lab practicals and hands on training as per credits allotted to the specified courses
- b) Besides in-house projects, M.Sc. and Ph.D Scholars are sent as and when required by the college to reputed institutions such as AAU, Jorhat, BCKV, Kalyani, ICAR-NEHR, Umiam, NEHU, Shillong, IIHR, Bangalore, IARI, New Delhi etc. to complete their research/analysis associated with their research projects or vital topics under curriculum.
- c) Field visits/ educational trips of students to commercial nursery units, botanical gardens not only provide practical exposure to students but also help in proper networking and interaction between the college and research institutions/ industries.

- d) With regular guidance of faculty of the college, hands-on-training for ICT tools and technology such as statistical softwares, MS office, LCD is encouraged in teaching learning and evaluation process.
- e) M.Sc. and Ph. D Scholars are encouraged to participate in the in-house as well as offcampus conferences, seminars, workshops, brainstorming etc.

6.4.6. Supervision of students in M.Sc. Floriculture and Landscaping: (Number of qualified faculty in relation to the intake of students, as per the guidelines in the matter.)

S.No	Department	Qualified	Present	Capacity	of Superviso	or as per
		faculty	nos. or	gui	delines (Iviay	K.)
			students	Assistant	Associate	Drofossor
				Professor	Professor	1 1 0105501
1.	Floriculture and	3	7	4	5	6
	Landscaping					

6.4.7.	Feedback of stakeholders (Students, Parents, industries, employers, farmers
etc):	

The faculty usually get the feedback from the students who have graduated from the college on various aspects like the contents of the course, teaching skills of the faculty, learning experience, assessment process, etc. The feedback is also taken from the parents on the performance of the students and the facilities available in the college. The details of the feedback received from the students and parents are given in Annexure 1.

6.4.8. Student intake and attrition in the M.Sc. (Horticulture) in Floriculture and Landscaping programme:

Sl. No.	Year	Student	Students	Student Attrition
	(Session)	Intake	enrolled	(%)
1.	2019-20	2	1	0
2.	2020-21	4	3	0
3.	2021-22	4	4	0

6.4.9. ICT Application in Curricula Delivery:

(a) Computer Lab: The college has well-equipped air-conditioned Computer lab with a plinth area of 80 square meter. The students are being taught about the IT facilities. The computer centre is equipped with Desktops for the use of staff and students of this institute. All these desktops and laptops are connected with internet for browsing. The

computer centre is connected with 24x7 34 Mbps, Internet Access through BSNL. The facilities available in the computer lab are:

- a) 24 hours x 7 days / week free Internet access (32 Mbps) to students
- b) Wi-Fi enabled in the New Academic Block (since 2015) to use ecommunications for students and staffs.
- c) Students are trained to install open-source software.
- d) Computers with Internet access are available in all departments.
- e) Academic buildings are linked with administrative building through Optic Fibre Cable (OFC).
- f) Total number of computers for public access: 15
- g) Total numbers of printers for public access: 02
- h) Internet band width/ speed: 34 Mbps through BSNL
- i) The lab is used for conducting Practical classes for UG and PG students.
- j) Students also use the Computer Lab for their research, statistical calculation and other academic activities.
- k) The academic, research, extension activities of the college are updated regularly at the college website from time to time.
- (b) Library : The college Library is equipped with internet facilities with, through which staff and students would be able to access OPAC (Online Public Access Catalogue) URL = www.chfcau.ideal.egranth.ac.in.
 - a) The Library Two Software : (i) Alice for Window (Softlink Asia pvt.ltd) Offline and (ii) Koha Library management Software
 - b) Electronic Resource Management package for e-journals Access through CeRA ICAR (Consortia for e-Resources in Agriculture): www.cera.jccc.in
 - c) CAB data base: access facility (CAB data from 1972 to 2005)
 - d) Krishikosh (e-theses etc. Institutional Repository of ICAR) all M.Sc. and Ph.D.
 Theses uploaded. It is open repository. URL: Krishikosh.egranth .ac.in
 - e) Library automation: under process through Koha Library management software
 - f) Total number of computers for public access in library: 06

Besides, the Department of Floriculture and Landscaping takes keen interest in ICT application in curricula delivery through platforms like adoption of audio-visual aids in teaching and learning, engagement of online mode of teaching-learning through Google Meet, Zoom, Google Classroom, sharing of information and study materials using WhatsApp.

- c) Smart Class Room: The College of Horticulture and Forestry, Pasighat has upgraded to
 2 Nos. of smart classrooms for teaching and practical purposes.
- d) Language Laboratory: The College has setup Language Laboratory with 32 nos. of computers for teaching and practical purpose of the students. A language laboratory is a dedicated space for foreign language learning where students access audio or audio-visual materials.

6.4.10. The information pertaining to 6.4.1 to 6.4.9 shall be provided for each one of UG, PG and PhD Degree Programmes, separately, and to be presented College-wise.

6.4.11. Since the accreditation of Programmes is related to the All India Admission from ICAR and also having weightage for College accreditation, therefore the data presented in the section 6.4 is liable to the verification at any stage.

6.4.12. Certificate (Applicable when SSR is submitted for Programme) I, the Dean **Dr. B. N. Hazarika** hereby certify that the information contained in the Section 6.4.1 to 6.4.9 are furnished as per the records available in the college, and degree awarding university.

of Horticulture & Foresu Acontinal University 11102 (A D)

Signature of Dean of the College with Date & Seal

ANNEXURE I

Feedback from pass out students

ANNEXURE I

M.Sc. Program irriculum & Syllabi of courses provide fficient knowledge in area of study, has good ance between theory d application and filling your expectation age of teaching aids and	Excellent (5)	Very good (4)	Good (3)	Fair (2)	Poor (1)
rriculum & Syllabi of courses provide fficient knowledge in area of study, has good lance between theory application and filling your expectation age of teaching aids and	~				
age of teaching aids and					
Γ in the class by faculty facilitate teaching and re quality education.	~				
aching quality, fairness the assessment ocesses (Internal uluation, Quiz, signments, etc.) and edom to adopt new hniques/education tools	~				
portunities in the llege for Research tivities & Relevance h Practical / Lab work	~				
riculum has prospects supporting higher cation, career ntated /employability.	~				
erall Learning	~				200
	ching quality, fairness the assessment cesses (Internal luation, Quiz, signments, etc.) and dom to adopt new uniques/education tools portunities in the lege for Research ivities & Relevance n Practical / Lab work riculum has prospects supporting higher cation, career intated /employability. rall Learning erience	the assessment cesses (Internal luation, Quiz, signments, etc.) and adom to adopt new miques/education tools portunities in the lege for Research ivities & Relevance n Practical / Lab work riculum has prospects supporting higher cation, career intated /employability. rall Learning erience we your valuable feedback on cur the programme. Select your ranking	the assessment cesses (Internal luation, Quiz, ingnments, etc.) and adom to adopt new uniques/education tools portunities in the lege for Research ivities & Relevance n Practical / Lab work riculum has prospects supporting higher cation, career intated /employability. rall Learning erience we your valuable feedback on curriculum to the programme. Select your ranking on the scal	equality education.	ce quality education.

Name of the student: Khe ling Lallemmon

Batch: 2019-2021

Degree programme: M.Sc. Horti culture flori culture and Kandscape Archiketere

Signature Mauri, K

SELF STUDY REPORT

for degree accreditation

MBA (Agri Business Management)

College of Post Graduate Studies in Agricultural Sciences, Umiam, Umroi Road, Meghalaya

Central Agricultural University, Imphal





SUBMITTED To

NATIONAL AGRICULTURAL EDUCAION ACCREDITATION BOARD

ICAR, NEW DELHI

Index

Sl. No.	Particulars
1	Sections 6.4
2	Sections 6.4.2 to 6.4.3
3	Section 6.4.4 to Section 6.4.6
4	Section 6.4.7 to 6.4.8
5	Section 6.4.9 to Section 6.4.12

6.4. Self-Study Report for the MBA (Agri. Business Management)

6.4.1. Brief History of the Degree Programme

The North Eastern India is experiencing rapid population growth which has crossed 45 million mark. In order to attain economic, food and nutritional security, it is imperative to impart quality agricultural education and have sustained agricultural development in the states of north eastern region. This region is constrained by lack of adequate infrastructure, low productivity, inadequate marketing and lack of knowledge on modern farm technologies. With this genesis in background, the Central Agricultural University, Imphal established the College of Post Graduate Studies in Agricultural Sciences (**CPGSAS**) at Umiam, Meghalaya on 21st December, 2006.

MISSION of CPGSAS is to achieve excellence in teaching, research and extension education in the field of agriculture.

MANDATES of CPGS are:

- 1) to impart postgraduate education in different branches of Agriculture,
- 2) to further the advancement of learning and prosecution of research in Agriculture, and
- 3) to undertake such others activities as it may deem fit, from time to time, to uplift the socioeconomically status of farmers in the North Eastern Region.

Objectives of CPGS are:

- 1) To produce globally competitive postgraduates in the field of agriculture
- To develop robust agricultural technologies to help Indian farming systems, particularly in the north eastern region of India to be sustainable and profitable, and
- To transform agriculture and allied activities into profitable enterprises and thereby create food and nutritional security for people of north eastern region of India.
- 4) The postgraduates of CPGS who are educated and trained in recent advances in agriculture and allied sciences, are expected to bring about a quantum change in the agricultural research and development systems in their respective states and also contribute towards strengthening the National Agricultural Research System.

The MBA degree program in Agri Business Management (ABM) currently running at CPGSAS is a 2 years full-time master's program following the ICAR course curriculum and has been offered at School of Social Sciences since 2017.

In the last five years (2016-17 up to 2020-21) a total number of 8 MBA students have passed out. The details of which are given below

Name of the student	Year of	Thesis Title
	passing	
Mr. Oliver Uchoi	2019	Tripura Forest Development and Plantation
		Corporation and Livelihood Security of Tribals:
		A Study of Corporate Social Responsibility
Ms. Missal Elbe Ch Momin	2019	Value Chain Analysis of Honey in Meghalaya -
		A Case Study
Mr. HijamThoiba Meitei	2019	A Study on Value Chain of Tea in Manipur
Ms. AmenriThongam	2019	Value Chain of Agro Products in Manipur-A
		Case Study
Ms. Iarasa Lakiang	2019	Scope of Value Chain Management of Agri-
		Products in Meghalaya
Mr. Thoudam Umashankar	2020	Study of Machal Spices Industry in Manipur
Singh		
Mr. Albert Schweitzer R	2020	Scope of Value Chain Management of Agri-
Sangma		Products in Meghalaya
Ms. Dogin Mamung Anjalee	2020	A Study of Lambu-Subu Food and Beverages in
		Arunachal Pradesh
Mr.Kishan Reang	2021	Evaluation of supply chain management of
		Pineapple in Tripura.

List of MBA (Agri. Business Management) theses submitted (2016-2021)

6.4.2. Faculty Strength

The ABM discipline in School of Social Sciences started during 2017-18 with 3 number of sanctioned faculty (Professor, Associate Professor and Asstt. Professor) and all were Ph.D. in Agricultural Economics. Two more faculties were there in the discipline of Agricultural Economics. Hence, collectively 5 faculties were running the ABM and Agricultural Economics programme in the school. Later on one faculty retired and

presently two faculties are there in ABM. But the discipline of Agricultural Economics at present there are 3 faculties (Professor-1 and Asstt Prof.-2), hence in total there are 5 faculties to run the ABM as well as the discipline of Agricultural Economics. The details are as under:

S. No.	Sanctioned Faculty	Faculty in place#	Vacant position	Faculty recommended by the ICAR/UGC/VCI/ other regulatory bodies
1.	Professor	3	Nil	3
2.	Associate Professor	1	1	1
3.	Assistant Professor	6	1	1
4.	Guest Faculty*	3	-	-

Including faculty from agricultural economics. Additionally, Scientists from ICAR were recognized as faculty by the academic council and as per MOU.

* Guest Faculty: Dr. J. P. Singh, Former Head, Economics, CCSHAU, Hissar; Dr. Arjun Singh, Former Head, Economics, CCSHAU, Hissar; Mr. V. Ashok, Former GM, NABARD

6.4.3. Technical and Supporting staff

Sl. No.	Name of post sanctioned	No. of post	Filled
		sanctioned	position
Group-C			
1	Clerk-cum-Typist/LDC/UDC	1	-
2	MTS	4	2
	Grand total	5	2

For School of Social Science

6.4.4. Classrooms and Laboratories:

A total of 5 Classrooms, 1 Seminar and 1 conference room attached with LCD Projector are available.

Following laboratories and facilities are available : Computer Lab and Multimedia Lab

The facilities available include well-furnished Computer Lab which is well equipped with the computer of 20 nos. The Lab has 5 numbers of SPSS user's license which is updated time to time.

6.4.5 Conduct of Practical and Hands-on-Training

The practical in PG program **MBA** (**Agri. Business Management**) are conducted as per the ICAR course curriculum. Practical and hands-on training are conducted as per the list included in the syllabi and records for all the courses are maintained and evaluated by the respective course in-charges by giving marks/weightage. For some of the courses which require visits to farmer fields, provisions are made accordingly for such visits.

The MBA students are sent for internship programmes for exposure. The details of the internships programs attended by the students are indicated below.

SI	Title	Date	Organization
No.			
1	Production of food Beverage	06.06.2018 to	Thangjam Agro Industries PVT Ltd.
		14.07.2018	Imphal East Manipur
2	Manipur Milk Producer's	04.06.2018 to	Central Dairy Plant, Porompat, Govt.
	Co-operative union limited,	14.07.2018	of Manipur
	Central Dairy Plant.		
3	Study on activities of the	June to July,	Meghalalya Institute of
	1917 iTeams (ITEAS)	2018	Entrepreneurship, Govt. of
			Meghalaya.
4	Production and processing	6.06.2018 to	B. R. Industries, Phulbari, West Garo
	of cashew nut	12.07.2018	Hills, Meghalaya.
5	Training on Rubber woods	07.06 2018 to	TFDPC Industrial Estate,
	production, rubber wood	13.07.2018	Anandanagar, West Tripura.
	seasoning and preservation		
	in treatment plant, Carpentry		
	and Bamboo Crafts, other		
	wood products		
	manufacturing etc.		
6	Fruit preservation centre	7.06.2019 to	Fruit Preservation Centre Dainadubi,
		18. 07.2019	North Garo Hills, Govt. of Meghalaya.
7	Dairy Processing	7.06.2019 to	Aane Dairy Plant, Pasighat and Arun

	Techniques and	19.07.2019	Dairy Plant, Karsingsa (Nirjuli).Under
	operationalization		the Department of A.H.Vety&Dairy
	procedures of Dairy plant.		Development, Govt. of Arunachal
			Pradesh. Nirjuli
8	Lamjingba Dairy Private	13.06.2019 to	Lamjingba Dairy Private Limited,
	Limited	18.07.2019	Imphal, Manipur
9	Training on Mushroom	15. 12. 2020 to	Horticulture Research Complex,
	Cultivation	28.01.2021	Nagicherra, West Tripura, Govt. of
			Tripura, Deptt. of Agriculture and
			Farmer's Welfare.
10	Training on seeds	20. 11. 2021 to	Andhra Pradesh state seeds
	development in Andhra	5.01.2022	development corporation Ltd.,
	Pradesh state seeds		Srikkulam, District.
	development corporation		
	Ltd.		
11	Market Research and	08 11 2021 to	Green Agrevolution Pyt Ltd Lohiya
11	Development of DeHaat	08 01 2022	Nagar Kankarhagh Patna
	Cattle Feed	00.01.2022	Nagai Kaikarbagii, Faula.
	Cattle Feed		
12	Study on Amrapali food.	15. 11. 2021 to	Amrapali foods Limited, Industrial
		30. 12. 2021	Area, Hajipur-844101, Dist. Vaishali,
			Bihar.
13	Market Research and	08. 11. 2021 to	Green Agrevolution Pvt. Ltd. Lohiya
	Development of DeHaat	08.01.2022	Nagar Kankarbagh, Patna.
	Cattle Feed		

6.4.6 Supervision of students in PG programs

The allotment of students is PG is as per CAU regulation with a cap of maximum six students for Professor, five students for Associate Professor and four students for Assistant Professor are being allotted in the school. The allotment of students is by lottery and in constitution of advisory committee and allotment of research title; the interest of the student is always kept in mind.

Name of Faculty	Number of	Number of students being						
	students guided	guided						
Dr. Ram Singh	1	0						
Dr. Binodini Sethi	4	3						
Dr. Anju Chaudhary	4	0						
Dr. Anandkumar Singh 0 1								
Facult	y for Supporting Cou	rses						
Dr. Ram Si	Dr. Ram Singh (Agricultural Economics)							
Dr. L. Hemo	chandra (Agricultural	Statistics)						
D	r. L. Devarani (HRD)							
Dr. Mercy N	esarani (Computer Ap	plication)						
Dr. R.J	. Singh (Rural Sociolo	ogy)						
Dr. N. A. S	ingh (Agricultural Eco	onomics)						
Dr. M. B. 1	Cengli (Agricultural Ex	tension)						
Dr. S. Chip	hang (Agricultural Eco	onomics)						
Dr. B. Non	gbri (Agricultural Eco	onomics)						

6.4.7 Feedback of stakeholders (students, parents, industries, employers, farmers etc.)

At the end of the each semester and before the end term exam, a comprehensive feedback for each course is taken from students. The feedback includes competency of the teacher in the subject, updating the current status of the subject by the teacher, timely covering of syllabi, student teacher interactions, creating interest among the students about the course, attitude towards weak students, punctuality of the teacher, etc for the last five years.

(Representative documents are provided in Appendix-CPGSAS-C)

6.4.8 Students intake and attrition in the program for last five years

Academic year	Intake	Number of	Attrition	Passed
	Capacity	admitted student	(%)	Out
2017-18	5	5	-	-
2018-19	5	3	-	-
2019-20	5	1	-	5
2020-21	5	4	-	3

Year wise information for the last five academic years (2016-17 to 2020-21) for **MBA (Agri. Business Management)** program is given in table below:

6.4.9 ICT Application in Curricula Delivery

All the class rooms, seminar and conference rooms are well equipped with LCD projectors. As per the needs of the course, power point presentation is given before the students for better explanation. Online and faculty made audio/videos are also presented to the students.

 Table: A brief summary of existing facility in the College Library for MBA students

SI.	Facility exist	Status
No.		
1.	Availability of books (Nos.)	5433
2.	Access to print copy of Indian Journals (Nos.) and	20
	Periodicals	
3.	Access to Indian on-line journals	2 titles
4.	Consortia	2794 e-journals through
		CeRA consortium
5.	M. Sc. And Ph. D Theses	356 M. Sc. 37 Ph. D
6.	Research Reports and Technical Bulletins	475
7.	CDs	85
8.	Magazines	8
9.	Newspapers (national and local)	8
10.	Statistical Database	1
11.	Analytical Software	1

6.4.10. The information pertaining to 6.4.1 to 6.4.9 shall be provided for each one of UG, PG and PhD Degree Programmes, separately, and to be presented College-wise.

6.4.11. Since the accreditation of Programmes is related to the All India Admission from ICAR and also having weightage for College accreditation, therefore the data presented in the section 6.4 is liable to the verification at any stage.

6.4.12. Certificate (Applicable when SSR is submitted for Programme) I, the Dean **Dr. Mayank Rai**. hereby certify that the information contained in the Section 6.4.1 to 6.4.9 are furnished as per the records available in the college, and degree awarding university.

Umlam, Meghala)

Signature of Dean of the College with Date & Seal

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am. Meghalaya

SELF STUDY REPORT

for degree accreditation of PhD programme in Veterinary Anatomy and Histology

MVSc in Veterinary Pharmacology and Toxicology

and

MVSc in Livestock Products Technology

For

ICAR ACCREDITATION



Submitted By

COLLEGE OF VETERINARY SCIENCES & ANIMAL HUSBANDRY CENTRAL AGRICULTURAL UNIVERSITY (Imphal) SELESIH, AIZAWL, MIZORAM.

Contents

Sl. No.	Degree programme
	PhD programme
1.	Veterinary Anatomy and Histology
	PG programme
1.	Veterinary Pharmacology & Toxicology
2.	Livestock Products Technology

PhD Programme in Veterinary Anatomy and Histology

6.4 Self study report for PG programme

The College of Veterinary Sciences & Animal Husbandry, one of the constituent Colleges of the Central Agricultural University, Imphal catering to the need of 7 North Eastern Hill states (Arunachal Pradesh, Manipur, Meghalaya, Mizoram, Sikkim, Tripura and Nagaland) of India under its jurisdiction was established through the promulgation of an Ordinance (No. M-2 of 1995; dated 20th February 1995).

The college became functional with the admission of first batch of B.V.Sc. & A.H. degree programme in the year 1997-98. P.G. programme was introduced from the academic session 2006-07. The College has also started Ph.D. programme from the academic session 2011-12. All the academic programmes i.e. BVSc & AH, MVSc & PhD programmes are accredited by ICAR, New Delhi and VCI, New Delhi. Collaboration with few renounced institutes like IVRI, Izatnagar, NDRI, Karnal, Haryana, Assam Agricultural university, Jorhat ,GADVASU, Ludhiana, ICAR-NRC-Mithun, Nagaland, ICAR-NRC on YAK, Arunachal Pradesh ,ICAR NRC on Pigs, ICAR- NRC on meat, Hyderabad has been established to strengthen the academics and research activity. The College had introduced M.V.Sc. Degree programmes in all disciplines Veterinary Anatomy, Veterinary Physiology, Veterinary Biochemistry, Animal Nutrition, Animal Genetics & Breeding. Livestock Production & Management, Veterinary Parasitology, Veterinary Pathology, Veterinary Microbiology, Veterinary Pharmacology & Toxicology, Veterinary Public Health & Epidemiology, Veterinary Medicine, Veterinary Surgery & Radiology, Veterinary Gynaecology & Obstetrics, Livestock Products Technology, Veterinary & AH Extension

6.4.1. Brief History of degree programme:

- a) Degree Programme initiated: M. V. Sc. 2013-2014; Ph.D. 2018
- b) Curricula or syllabus of the degree programme followed as per guidelines of ICAR restructured and revised syllabus-2021 (BSMA)
- c) Accomplishments in brief.
- i) Six M. V. Sc. Student passed out and two students are continuing.
- ii) One Ph. D. Student passed out and One student is continuing
- iii) Twenty Six Research Publication made by P.G. Students

iv)**Dr. Swarup Debroy** is working as Assistant Professor at IVRI, Izatnagar, Bareilly since April 2022 after completion of his Ph. D.

A. M. V. Sc: 16 (Sixteen)

- Lalramliana A, Kalita PC, Kalita A, Choudhary OP, Doley PJ, Das H (2018). Electron microscopic studies on the skin of Zovawk (Mizo Local Pig). *International Journal of Livestock Research*. 8(4): 202-205.
- Lalramliana A, Kalita PC, Kalita A, Doley PJ, Das H and Choudhary OP (2018). Light microscopic studies on the skin thickness of Zavawk pig. *Life Sciences Leaflets*, 100: 14-18.
- Vanlalrozami, Kalita PC, Doley PJ, Kalita A, Choudhary OP, Das H, and Singh S (2018). Gross morphological studies on the harderian gland of Zovawk (Mizo local pig). *International Journal of Agriculture Sciences*. 10(15): 6815-6816.
- Singh TS, Kalita PC, Choudhary OP, Kalita A, Doley PJ (2019). Histomorphological studies on the testis of local pig (Zovawk) of Mizoram. *Indian Journal of Animal Research*. 53(11): 1455-1458.
- Debroy S, Kalita A, Doley PJ, Choudhary OP, Das H, Kalita PC (2019). Liver and pancreas of Mizo local pig (Zovawk): A histomorphological and histochemical analysis. *International Journal of Livestock Research*. 9(01): 150-156. DOI: 10.5455/ijlr.20180512115737
- Keneisenuo, Choudhary OP, Arya RS, Kalita PC, Doley PJ, Rajkhowa TK, Kalita A (2019). Comparative gross morphological studies on the Os-coxae of Crested Serpent eagle (*Spilornis cheela*) and Brown Wood owl (*Strix leptogrammica*). *Journal of Animal Research*. 9(3): 439-442.
- Keneisenuo, Choudhary OP, Arya RS, Kalita PC, Rajkhowa TK, Kalita A, Doley PJ (2019). Comparative gross anatomical studies on the humerus of crested serpent eagle (*Spilornis cheela*) and brown wood owl (*Strix leptogrammica*). *Indian Journal of Veterinary Anatomy*. 31(2): 95-96.
- Singh TS, Kalita PC, Choudhary OP, Doley PJ, Kalita A (2019). Gross morphological, histological and histochemical studies on the epididymis of local pig (Zovawk) of Mizoram. *Journal of Animal Research*. 9(6): 855-861.
- Singh TS, Kalita PC, Kalita A, Doley PJ Choudhary OP and Vanlalrozami (2019). Comparative Gross Anatomical Studies on the Testes of Zovawk (Mizo Local Pig) and Large White Yorkshire Pig. *International Journal of Livestock Research*, 9(2): 49-52. (1. doi: 10.5455/ijlr.20180726105045).
- Keneisenuo, Choudhary OP, Debroy S, Arya RS, Kalita PC, Doley PJ, Rajkhowa TK, Kalita A (2020). Comparative gross anatomical studies on the shoulder girdle of crested serpent eagle (*Spilornis cheela*) and brown wood owl (*Strix leptogrammica*). *Indian Journal of Animal Research*. 54(5): 570-572. DOI: 10.18805/ijar.B-3819.
- 11. Singh TS, Kalita PC, Choudhary OP, Kalita A, Doley PJ (2020). Histological, micrometrical and histochemical studies on the testes of Large White Yorkshire pig (*Sus scrofa domesticus*). *Indian Journal of Animal Research*. DOI: 10.18805/ijar.B-3914.
- Keneisenuo, Choudhary OP, Priyanka, Kalita PC, Kalita A, Doley PJ, Chaudhary JK (2020). Applied anatomy and clinical significance of the maxillofacial and mandibular regions of the barking deer (*Muntiacus muntjak*) and sambar deer (*Rusa unicolor*). *Folia Morphologica*. DOI: 10.5603/FM.a2020.0061.
- Swarup Debroy, P.C. Kalita, Arup Kalita, O.P. Choudhary, P.J. Doley, Amitava Paul, Rupan Sarkar (2021). Anatomy of the Liver of Mizoram Local Pig (Zovawk). *Indian Journal of Animal Research*. DOI: 10.18805/IJAR.B-4447.
- 14. Keneisenuo, Choudhary OP, Kalita PC, Kalita A, S. Duro, Kalita A, Doley PJ, Rahul RS, Debroy S. Priyanka P (2021). A comparative study on the morphology, radiography and computed tomography of the skull bones of barking deer (Muntiacus muntjak) and sambar deer (Rusa unicolor). *Folia Morphologica*.80 (1): 170–176 DOI: DOI: 10.5603/FM.a2021.0015.
- Rupan Sarkar, Om Prakash Choudhary, Priyanka, G.E. Chethan, Probal Jyoti Doley, Pranab Chandra Kalita , Arup Kalita (2021). Preparation of blood samples for electron microscopy: The standard protocol *Annals of Medicine and Surgery*, 70 (2021) 102895
- Rupan Sarkar, Arup Kalita, O.P. Choudhary, P.C. Kalita, P.J. Doley and Swarup Debroy (2022). Observations on the cytomorphology and ultrastructure of the peripheral blood cells of native cattle (Zobawng) of Mizoram, India. *Microscopy Research and Technique*. DOI: 10.1002/jemt.24197

B. Ph.D : 10 (Ten)

- 1. Kalita A, Sarma K, Talukdar M, Deka A, Kalita PC (2017). Gut Integrity of neonatal piglets: A histomorphological analysis. *Journal of Animal Research*. 7(6): 1115-1121.
- Kalita A, Sarma K, Talukdar M, Kalita PC, Doley PJ, Choudhary OP (2018). Histoenzymatic characterization of small intestine of neonatal piglets. *Journal of Animal Research*. 8(3): 455-458.

- 3. Kalita A, Kalita PC, Doley PJ, Choudhary OP, Das H (2018). Haematological and serum enzyme profile of neonatal Hampshire piglets. *International Journal of Agriculture Sciences*. 10(12): 6436-6437.
- 4. Kalita A, Talukdar M, Sarma K, Kalita PC, Gautam C, Choudhary OP, Doley PJ, Keneisenuo, Sarkar R (2020). Alterations of small intestinal morphology on villi and crypts after feeding probiotic and zinc in pre and post-weaned piglets. *Indian Journal of Animal Research*.
- 5. Kalita A, Talukdar M, Sarma K, Kalita PC, Gali JM, Tamuli S, Choudhary OP, Doley PJ, Debroy S, Keneisenuo (2020). Impact of probiotic and zinc on brush-border enzyme and histoenzymatic profile in the small intestine of pre and post-weaned piglets. *Indian Journal of Animal Research*.
- Kalita A, Talukdar M, Sarma K, Kalita PC, Roychoudhury P, Kalita G, Choudhary OP, Chaudhary JK, Doley PJ, Debroy S (2020). Small intestinal mucosal cells in piglets fed with probiotic and zinc: a qualitative and quantitative microanatomical study. *Folia Morphologia*. DOI: 10.5603/FM.a2020.0091.
- Kalita A, Talukdar M, Sarma K, Kalita PC, Gautam C, Choudhary OP, Doley PJ, Keneisenuo, Sarkar R (2020). Alterations of small intestinal morphology on villi and crypts after feeding probiotic and zinc in pre and post-weaned piglets. *Indian Journal of Animal Research*. DOI: 10.18805/ijar.B-4200.
- Kalita A, Talukdar M, Sarma K, Kalita PC, Gali JM, Tamuli S, Choudhary OP, Doley PJ, Debroy S, Keneisenuo (2020). Impact of probiotic and zinc on brush-border enzyme and histoenzymatic profile in the small intestine of pre and post-weaned piglets. *Indian Journal of Animal Research*. DOI: 10.18805/ijar.B-4211.
- Arup Kalita, P. C. Kalita, P. Roychoudhary, O. P. Choudhary and P. J. Doley (2021). Alteration of Lactic Acid Bacteria profile in Piglets after Dietary Supplementation of Probiotics: A Comparative study.. *Haryana Vet.* 60(1), 137-139.
- A. Kalita, M. Talukdar, K. Sarma, P.C. Kalita, P. Roychoudhury, G. Kalita, O.P. Choudhary, J.K. Chaudhary, P.J. Doley and S. Debroy (2021). Small intestinal mucosal cells in piglets fed with probiotic and zinc: a qualitative and quantitative microanatomical study. *Folia Morphol.*80 (3), 605–617 DOI: 10.5603/FM.a2020.0091
- v) Any other accomplishment which will justify the degree programme to be accreditated by ICAR (Mostly academic and research related accomplishments):

The College of Veterinary Sciences and Animal Husbandry, one of the constituent College of the Central Agricultural University was established through the promulgation of

an Ordinance (No. M-2 of 1995; dated 20th February 1995) and became functional with the admission of first batch of students to B. V. Sc. and A.H. degree programme in the year 1997. During the year 1998, the campus formally started functioning at present location, Selesih in 24 Assam Type Houses taken over from the Department of Animal Husbandry and Veterinary, Govt. of Mizoram with 5 Assistant Professor deputed from the state department. Dr. P. C. Kalita was appointed as first Assistant Professor in the department of Veterinary Anatomy and Histology on adhoc basis in November 1998 (15/11/1998). The Department of Veterinary Anatomy and Histology trains students of undergraduate, postgraduate and doctorate level. Keeping with the National mainstream, the department is imparting B.V.Sc. & A.H. degree programme according to the curriculum of the Veterinary Council of India (MSVE, 2016). The students came to appreciate immediately the power of knowing basic anatomical details in clinical practice whenever they are exposed to live animals. These efforts provide a strong educational environment and foundation of support for students. Through the regional teaching, the faculty are embracing new ways to foster engagement in the classroom, assist with deep understanding and improved information retrieval, and promote successful life-long learning. Post Graduate programme was started in the academic session 2013-2014. It is the year 2018, the competent authority has given the approval to start the Ph. D. degree programme. The department is imparting M. V. Sc. and Ph.D. degree programme as per guidelines of ICAR, 2009. Till date six M.V.Sc students (i.e. Dr. A. Lalramliana, Dr. Swarup Debroy, Dr. Thokchom Shitarjit Singh, Dr.Vanlalrozami, Dr. Keneisenuo and Dr. Rupan Sarkar) have completed their postgraduate studies; one Ph. D. student (Dr. Swarup Debroy) has completed his Ph. D. in March, 2022 and two M. V. Sc student (Dr.Monalisha Debbarma and Dr. Lalrinawama Khiangte) and one Ph. D. student (Dr. Rupan Sarkar) are undergoing for their degree programme. At the department, teaching and research are closely linked, and there is continuous supervision for graduate and postgraduate students. The department houses an extensive collection of anatomical specimens of domestic and wild animals. During the year 1999 few skeletons of cattle, horse, pig, dog and bird were purchased from Nagpur Veterinary College who were running a ICAR project for skeleton preparation under the dynamic leadership of Dr. V. R. Bhamburkar, Professor and Head cum General Secretary, IAVA. Thereafter, Dr. P. C. Kalita mounted the skeleton of Yak and Mithun in the department during 2005 and 2010 after collection of bones from carcasses of the NRC on Yak, Dirang, Arunachal Pradesh and NRC on Mithun, Jharnapani, Nagaland.

The research focus of the department is on establishing a database of the specific anatomy of Zo-Vawk (Mizo local pig), Mithun, Yak, Sloth Bear, Sun Bear, Hoolock Gibbon and Slow –Loris. The department has successfully completed eight intramural research projects of central Agricultural University including four on Zo-Vawk, the unique animal of Mizoram. The faculty of the department has published more than 115 research paper in journal of National and International repute. Dr. P. C. Kalita acted as a referee for Anatomia Histologia Embryologia (published by Wiley Online Library), Indian Journal of Animal Sciences (published by ICAR), and Indian Journal of Agricultural Research (published by ARCC); and Dr. Arup Kalita acted a referee for Indian Journal of Animal Sciences and Indian Journal of Agricultural Research. Dr. P. C.Kalita has been working as Consultant Indian Wuildlife Year Book since 2010 to till date. Dr. P. C. Kalita is running a networking and collaborative research with IIT Guwahati since 2021.

The histology and Histochemistry laboratory provides biopsy, histochemistry, and high quality slide preparation. In 2003, Dr. P. C. Kalita and his co-worker Dr. H. C. Kalita and late Dr. R. N. Bhattacharyaa has been awarded the IAVA best paper award at the Anand Convention. In 2009, Dr. Arup Kalita has been awarded the coveted Md. Hiffiudin award for Best paper in Gross Anatomy. In 2010, Dr. P. C. Kalita has been awarded Dr. A. M. Srivastava Gold Medal in recognition of his best Ph.D thesis at IAVA, Puducherry Convention. In 2014, Dr. P. C. Kalita has been awarded with DBT overseas fellowship to work on alternate animal use technology at TUFT University Cummings School of Veterinary Medicine, Massachusetts, Boston, United States of America. The XXXIII CONVENTION OF INDIAN ASSOCIATION OF VETERINARY ANNUAL ANATOMISTS & NATIONAL SYMPOSIUM was organized during 28th-30th November, 2018 by the Department of Veterinary Anatomy & Histology in collaboration with Indian Association of Veterinary Anatomists. Dr. H. D. Sarma from Bhaba Atomic Research Centre, Trombay delivered a talk on Bioethics and Animal Experimentation during the Symposium to Students, Faculty and Participants. The faculty of the department are also offering their expertise pertaining to various aspects of Veterinary Anatomy including clinical Anatomy, histochemistry and Ultrastructure to other departments, Mizoram University, RIPAN, NEHU and Forensic Science Laboratory.

Dr. P.C. Kalita, Professor and Head of the department, has published 95 publications with a total SCI citation 193 (since 2017) with an H index of 8, i-10 index-5. RG Score-17.95. He is also a reviewer of various prestigious national and international journals. Dr. Arup Kalita, Assistant Professor (SG), published 107 research publications with a total of SCI citation 138 with an H index of 6, i-10 index-2. He also published his recent publication with an impact factor of 0.94 in the prestigious journal Folia Morphologica published from Poland. RG score- 19.13. Dr. O.P. Choudhary, Assistant Professor, published 92 publications with a total of SCI citations 293 as with an H index-10, i-10 index-10. He has also published two recent articles as a corresponding author with an impact factor of 4.589 equivalent to NAAS 10.59 in the prestigious journal Travel Medicine and Infectious Diseases published from Zurich, Switzerland. RG score- 21.53. He is a member of the International Advisory Board of the International Journal of Morphology with an impact factor of 0.499 published from Chile. Dr. P.J. Doley also published various national and international publications in the prestigious journal. He is also a reviewer of various prestigious national and international journals.

Therefore, the ICAR may give accreditation to the Ph. D. Programme of the department considering the above mention human resources pertaining to the academic and research activities.

S No	Faculty in	Vacant	Faculty recommended by VCI,
	position	position	2016 (MSVE, 2016 Regulation
			for B. V. Sc. & A. H.)
1.Professor	One	Nil	One
2.Associate Professor	One	Nil	One
3.Assistant Professor	Two	Nil	Two

6.4.2. Faculty strength of the department

6.4.3. Technical and supporting staffs of the departm

S No	Staff in	Vacant	Staffs recommended by VCI,
	position	position	2016
1.FCLA	Two	Nil	Two
2.Farm Manager	Nil	Nil	Nil
3.MTS	One	Nil	One

6.4.4. Laboratories:

- a. Name of Laboratory: Gross Anatomy laboratory
 - i. Bone and meat cutting machine

ii. Cadaver Injector

b. Name of Laboratory: Histology and Histochemistry laboratory

- i. Cryostat Microtome, Automatic deluxe
- ii. Semi-Motorized Rotary Microtome
- iii. Deep Freezer (-20°C)
- iv. Digital magnetic Stirrer hot plate
- v. Digital Imaging Device
- vi. LCD Multimedia Projector
- vii. Automatic tissue processor
- viii. Autoclave Vertical
- ix. Bone Decalcifier
- x. Centrifuge- Remi
- xi. Distillation Apparatus
- xii. Digital SLR Camera (E-620)
- xiii. Deep Freezer (-20°C)
- xiv. Electric Weighing balance
- xv. Hot Air Oven
- xvi. Incubator
- xvii. Microscope (Monocular)
- xviii. Microscope (Binocular)
- xix. Microscope (Trinocular)
- xx. Overhead Projector
- xxi. Octagon Magnetic Stirrer
- xxii. Paraffin Embedding bath
- xxiii. P^H Meter
- xxiv. Precision Rotary Microtome
- xxv. Slide Warming table
- xxvi. Tissue Floatation Bath

6.4.5. Conduct of practical and hands on training:

The practical class is of two hours duration for all the courses offered to students of PG programme. Students used to do the practicals by themselves under the supervision of the faculty/ course instructor. Students used to record their observations in practical manual.

6.4.6. Supervision of students in PhD programme:

Number of students being supervised by faculty in case of Masters/ PhD programme (as per ICAR guidelines). Eligible criteria to become research guide, and maximum number of student/guide of Ph.D. Programme (CAU, Academic Regulations-2016, clause 2.12.2): All Professors are eligible to guide Ph. D. students. A teachers other than Professor must guided or guiding 2 (two) Master's students and has published four research papers in NAAS rated journals (other than his/her Master's or Ph. D. thesis) OR A teacher must have guided 3 (three) Master's students successfully as a Major Advisor.

Maximum number of student/guide (CAU, Academic Regulations-2016, clause 2.8.1. iii):: At any given time, Professor, Associate Professor and Assistant Professor shall not be a Chairperson for more than Six, Five and Four P.G. students (Master's and Ph. D. Combined), respectively.

Name of the faculty	Programme	Number of Students supervised as a Major Advisor	Number of Students being supervise as a Major Advisor
Dr. P. C, Kalita	M. V. Sc.	Four	One
	Ph. D.	One	One
Dr. Arup Kalita	M. V. Sc.	One	One
	Ph. D.	No	No
Dr. O. P.	M. V. Sc.	One	No
Choudhary	Ph. D.	No	No

Serial No.	Name of Student	Name of Adviser	Degree	Remarks
			Programme	
01.	Dr. A. Lalramliana	Dr. P. C, Kalita	M. V. Sc.	Completed in
				2016
02.	Dr. Swarup Debroy	Dr. P. C. Kalita	M. V. Sc.	Completed in
				2017
03.	Dr. Thokchom	Dr. P. C. Kalita	M. V. Sc.	Completed in
	Shitarjit Singh			2018
04.	Dr. Vanlalrozami	Dr. P. C. Kalita	M. V. Sc.	Completed in
				2018
05.	Dr. Swarup Debroy	Dr. P. C. Kalita	Ph. D.	Completed in
				2022
06	Dr. Keneisenuo	Dr. O. P.	M. V. Sc.	Completed in
		Choudhary		2020
07.	Dr. Rupan Sarkar	Dr. Arup Kalita	M. V. Sc.	Completed in
				2021
08.	Dr. Lalrinawma	Dr. P. C, Kalita	M. V. Sc.	Continuing
	Khiangte			
09.	Dr.Monalisha	Dr. Arup Kalita	M. V. Sc.	Continuing
	Debbarma			
10.	Dr. Rupan Sarkar	Dr. P. C. Kalita	Ph. D.	Continuing

6.4.7. Feedback of stakeholders:

The college through a structured feedback mechanism (copy of feedback format attached as **Annexure -I**) from passed out students ensures quality teaching learning process and research work in the area of Veterinary and Animal sciences. The distribution, collection and analysis of filled feedback form passed out UG, PG & PhD students are done through online / offline mode. Students provide their feedback on Course curriculum, academic

regulation, examination system, research facilities, quality of teaching and availability of infrastructures in the college by filling up a prescribed format Feedbacks are taken into consideration with utmost sincerity and corrective measures / improvements are made by the Head of the departments and Dean of the college. This feedback is used to improve the curriculum delivery, course evaluation process, development of infrastructure in the different laboratories and sections of the department, availability chemical and reagents and research facilities. Feedback is also received from parents, other institutes, Concerned Directorate of State Government time to time.

2016-17 2017-18 2018-19 2019-20 2020-21 Sanctioned seat Not introduced 01 01 01 Actual admitted 01 nil nil 0 NA Attrition % NA

6.4.8. Students intake and attrition in programme for last five years (PhD Programme)

6.4.9. ICT application in Curricula delivery:

The Department of Veterinary Anatomy and Histology is using various ICT tools for a better understanding of theories, principles, ideas and concepts. The department uses CD-ROMs for a better understanding of the histological and embryological slides by undergraduate and postgraduate students. The department is also using various websites for the students to understand better gross anatomy (in 3D mode). The department faculty members also provided the link (<u>https://play.google.com/store/apps/details?id=net.imaios</u>. vetanatomy&hl=en_IN&gl=US) for the app IMAIOS vet-Anatomy, which is an atlas of veterinary anatomy for veterinary physicians, radiologists, teachers, veterinary students.

6.4.10. The information pertaining to 6.4.1 to 6.4.9 shall be provided for each one of UG, PG and Ph. D Degree Programme, separately, and to be presented college-wise: Yes

6.4.11. Sicne the accreditation of Programmes is related to the All India Admission from ICAR and also having weightage for college accreditation, therefore the data presented in the section 6.4 is liable to the verification at any stage.

6.4.12. Certificate (Applicable when SSR is submitted for Programme)

I, the Dean, Dr. L. Hmar, hereby certify that the information contained in the section 6.4.1 to 6.4.9 are furnished as per the records available in the college, and degree awarding university.

ly

DEAN COLLEGE OF VETERINARY SCIENCES & AH CENTRAL AGRICULTURAL UNIVERSITY (1) SELESIH, AIZ4WL - 796014 MIZORAM

Signature of Dean of the college with Date & Seal

Feedback of Stakeholder

Every past moments defines us what we are today, starting from a small conversation with a random stranger to every calculated stride we take in our life. There is a considerable difference between me today and me from few years back and studying in this college played a important role in that plethora of changes. I, being a Post graduate student in the department of Veterinary Anatomy & Histology from 2015-2017, have seen many rollercoaster situations and also was amazed to see how professionally our department was able to handle them. Here I am going to brief about my experience and review my 2 years with this pleasing department of my own.

Department in general

A quality department can not only be made by students and experience teachers, what it needs the most are a motivated atmosphere to work in and a leader to maintain the same. My department has both. While driving a skillful student to reach his/her true potential is a commendable job to say the least but making a mediocre student to believe that he/she can compete with others and manifest them to a path of excellence is where a teacher or department shine. At the beginning of my research work I was not so sure of my success but as the time pass by more and more motivation came from my professors which helps me to reach the goal I was hoping for. The freedom I was given to work at any time of the day and also the regular enquiry about the work by my superiors' aid me to get to my objectives on time. There is a trend in my department to teach us the basic gross anatomical and Histological techniques, regardless of our research program during our first year of masters to prepare us for our upcoming professional hurdles. This definitely helped me to cope up with multiple strenuous circumstances. There are many sophisticated equipments available in our department i.e. Two Trinocular Microscope (BX-41) with multi observation body, A semi-automatic Rotary Microtome, Vacuum Oven and many other day to day laboratory equipments. Operating them by myself at very beginning of my professional career will surely help me to be more comfortable with them in my future studies. Different field trip with teachers to collect the bones of different animal and mounting their skeleton was the best example of field work as Veterinary Anatomist.Apart from my research projects my teachers encouraged me to work on different side projects to expand my range of knowledge. We have two Histology laboratory and one oesteology laboratory which are always accessible by master's students.

Chairman of Advisory committee

My review will not be complete without jotting down a few words about my guide and chairman of my advisory committee, Dr. P.C. Kalita. There are so many good things to talk about Dr. Kalita that I am literally bewilderedwhere to start. He was my local guardian in every way possible. Simply putting he is one of the most punctual and honest person I have ever seen. His polite behavior makes him of an affable person. His immense grasp in the subject, labeled him as an erudite person in the campus. His leadership quality is what maintains the positive environment in the department. Time to time he has to take some hard decision for the betterment of the people around him and that's only makes him the stronger person he is. He was extremely helpful during my research period both professionally and personally. As I can recall at the very beginning of my master degree I face a family tragedy from where the continuation of my degree was uncertain. During that time Dr. Kalita convinced me to continue my degree and taught me one of the biggest lessons of life, "to move on". So if I ever shine in the field of Veterinary Anatomy, a big piece of credit goes to him and for that I am always thankful to him. THANK YOU SIR.

Staff of the Department

Other persons of our department are equally praise worthy for the work they are doing. Teachers were always helpful with any theoretical or practical problem I was having at that time. A big shout out to the non-teaching stuff of the department for offering a helping hand whenever was necessary and also for their friendly behavior.

Nothing in this world is fully perfect. Same for our department, it comes with its flaws but it is how together we overcome those hurdles make us ever developing branch of the college. In conclusion, I have enjoyed my two years of master degree in this place and assembled a vast degree of knowledge which I am looking forwardto use in near future.

Date: 17.08.2017

Name: Dr. SwarupDebroy

Regn. No- 2015-v-15 (M)

Signature

Feedback of Student

- Department in General : The Department of Veterinary Anatomy and Histology, which i have done my MVSc course provided a lot of moral support and necessary arrangement during the course of my research. Allowing access to laboratory for 24 hours and purchasing the equipments, chemicals in time help in expeditious completion of my research work without delay any longer. The Department has a wide range of specimens, samples, books, equipments etc. to facilitate the research work and also help to improve the technical capabilities of the students.
- 2. Chairman of the advisory Committee: Dr P.C. Kalita, Advisor and Head of the Department initiated all the arrangement for my studies within the Department and further to Tezpur University and NEHU University for my sample preparation which is imperative to my electron microscopic studies. He took the necessary step in related to paper work, purchase order, Laboratory set up for my research work to accomplished my course in time. His advises and competency encouraged enormously to take a step ahead at the hardest time and to go for further studies.
- 3. Staff of the Department: Teaching staff, Assistant, MTS, all are crucial for my studies. The Teaching staffs especially are very open to my approach and ready for help whenever I asked. They expedited their expertise knowledges and technical skills to my studies and they motivate enormously for my further work, including career guidance. The Assistant, MTS extended their support while collecting samples, samples preparation etc. for smooth running of the procedure.

Date: 20.1.2015

Rau Signature:

Name of Student: Dr A.Lairamliana

Regn No : 2014-V-14(M)

FEEDBACK OF STUDENT

The Department of Veterinary Anatomy & Histology, College of Veterinary Sciences and Animal Husbandry, C.A.U. Selesih, Aizawl, Mizoram, has equipped with good laboratory with all the modern instruments for catering research in microscopical anatomy. The department has also a museum for showing various gross and splanchnology specimens.

I am thankful to my honourable advisor cum Chairman of Advisory Committee Dr. P.C. Kalita, Professor and Head, Department of Veterinary Anatomy & Histology, College of Veterinary Sciences and Animal Husbandry, C.A.U. Selesih, Aizawl, for his constant encouragement, creative suggestions and tireless efforts. His unflinching courage and conviction will always inspire me, and I hope to continue to work with his noble thoughts. Without his able guidance, the thesis would not have been possible and I shall eternally be grateful to him for his assistance. I have been extremely lucky to have a guide who cared so much about my work, and who responded to my questions and queries so promptly.

I would like to thank the non-teaching staffs; Mrs. Lalsangzuali Colney, Mr. Ch. Vikram, Mr. Zodinthara and Mr. Lalchhanhima and who had rendered the helping hands at all the times when I was in need.

The Shitaryit Lingh

Dr. Thokchom Shitarjit Singh Ph.D. Scholar. Thamarai illam, Madras Veterinary college Hostel, TANUVAS, Chennai-600007. Date: 21/06/2021

MVSc in Veterinary Pharmacology and Toxicology

6.4 Self study report for MVSc in Veterinary Pharmacology and Toxicology

6.4.1 Brief History of the Department:

The mandate of the Department of Pharmacology & Toxicology is teaching, research and extension activities. The department is having three different laboratories having ample space which are well furnished with almost all the necessary equipments to conduct practical classes and also to run many different research works. This department is offering UG and PG courses. Postgraduate programme was started in the year 2007. As of now, a total of nine Post Graduate students of this department successfully completed their course and all of them got good placement in different sectors.

Besides teaching, the department is also engaged in research and extension activities regularly. So far, one intra-mural and three extra-mural projects have been sanctioned and conducted in this department. Out of which, two extra-mural projects are still running in the department. The prioritized researchable areas of this department are herbal medicine, drug and pesticide residue analysis and pharmacokinetic and pharmacodynamic studies of drugs.

- 1) Year in which the degree programme was initiated : M.V.Sc. programme in 2007
- 2) Whether nomenclature, curricula or syllabus of the degree programme as per guidelines of ICAR,2009 : Yes
- 3) Accomplishments in brief.
 - i) MVSc students passed out since introduction of the programme: 09 till date
 - ii) PhD students passed out since introduction of the programme: Yet to be introduced
 - iii) No. of M.V.Sc. and Ph.D students on roll: Nil (Accreditation yet to be done to enrol PG students)
 - iv) Publication: 05
- 4) Any other accomplishment which will justify the degree programme to be accrediatated by ICAR (Mostly academic and research related accomplishments):
 - i) Many of the passed out students pursued higher studies and some of them qualified for ICAR NET and one, Dr.Lalrinpuia, qualified for ICAR-SRF for PhD studies.
 - ii) Dr. Gracia Lalchamzuali was awarded with Intas Young Scientist Award, 2011 in the XIth Annual Conference of Indian Society of Veterinary Pharmacology & Toxicology (ISVPT) and National Symposia on "Bioinformatics in drug designing and challenges and opportunities in veterinary drug development", IVRI, Izatnagar, Bareilly, UP (November 17th – 19th, 2011) with her M.V.Sv. research works

punlished in *Compendiumcum Souvenir*as **Gracia Lalchamzuali**, C.Lalmuanthanga, Pritam Mohan and M.A.Ayub Shah (2011): Bioequivalence studies on tree oral formulations of ofloxacin in rabbits: XIth Annual Conference of Indian Society of Veterinary Pharmacology & Toxicology (ISVPT) and National Symposia on "Bioinformatics in drug designing and challenges and opportunities in veterinary drug development", IVRI, Izatnagar, Bareilly, UP (November 17th – 19th, 2011). *Compendiumcum Souvenir*: p 54.

iii) All of the passed out students are having well placement in various sectors as a faculty member in colleges/university, state department etc as below:

Sl.	Name of the	Year of	Education	Employment Details			
No	Student	Passing	Qualification	Post Held	Departmen	From	То
•	(Reg.No./Adm. No.)	out			t		
1	Dr. Bijargi Shriharsh	2009	PhD	Principal	Preclinical	2019	Till
	R.			Scientist	Science,		date
	Adm. No.2007-V-				NIBR,		
	01(M)				Novartis,		
					India		
2	Dr. Snigdha	2010	MVSc	Assistant	Dept. Of	2016	Till
	Hazarika			Professor	Pharmacolo		date
	Adm. No.2008-V-				gy and		
	04(M)				Toxicology		
3	Dr.	2010	PhD	Assistant	Department	2011	2019
	Wangkheirakpam			Professor	of		
	Ramdas Singh				Pharmacolo		
	Admn. No.2008- V-				gy &		
	01 (M)				Toxicology,		
					CVSc &		
					AH,		
					R.K.Nagar -		
					799008,		
					Tripura		
					(West)		

M.V.Sc. passed out students and their placement:

				Assistant	Department	2019	Till
				Professor	of		Date
					Pharmacolo		
					gy &		
					Toxicology,		
					COVSC &		
					AH, CAU,		
					Jalukie,		
					Nagaland		
4	Dr. Anwar Hussain	2011	MVSc	Veterinary	AH &	2019	Till
	Hazarika			Officer	Veterinary		Date
	Adm. No. 2008-V-				Department,		
	02 (M)				Government		
					of Assam		
5	Dr. Binita Angom	2011	PhD	Assistant	Dept. Of	2016	Till
	Adm. No. 2009- V-			Professor	Pharmacolo		date
	01(M)				gy &		
					Toxicology		
					CVSc &		
					AH, R.K.		
					Nagar		
					Tripura		
6	Dr.H.Lalbiaksangi	2011	MVSc	Gender	ATMA,	2011	Till
	Adm.No. 2009-V-			Coordinat	Government		date
	03(M)			or	of Mizoram		
7	Dr.C.Lalchhandama	2011	MVSc	Assistant	Department	2018	Till
	Adm. No. 2009-V-			Professor	of		date
	02(M)				Pharmacolo		
					gy &		
					Toxicology,		
					CVSc &		
					AH, CAU,		
					Selesih,		
					Aizawl		

8	Dr. Gracia	2011	MVSc	Veterinary	AH & Vety	2009	Till
	Lalchamzuali.			Officer	Department,		date
	Adm. No. 2008- V-				Government		
	03 (M)				of Mizoram		
9	Dr. Lalrinpuia	2012	MVSc	Research	Department	2017	Till
	Adm. No. 2010-V-			Officer	of		date
	01(M)				Pharmacolo		
					gy, National		
					Research		
					Institute for		
					Ayurvedic		
					Drug		
					Developme		
					nt, Ministry		
					of AYUSH,		
					Kolkata,		
					Salt Lake-		
					Sector V		

Research Project and Publication from PG and Ph.D research work

Research Projects:

- Analysis of Selected Antimicrobial Drug Residues in Meat Samples collected from Aizawl Local Markets
- ii) Outreach Programme on Ethnoveterinary Medicine, ICAR
- iii) All India Network Project(AINP) on Pesticide Residue and Monitoring of Pesticide Residues at National Level (MPRNL)
- iv) To develop standardized poly-herbal formulation of medicinal plants for use as anticoccidial agent for poultry

Publications: 05

W. Ramdas Singh, Tridib K. Rajkhowa, KH. Victoria Chanu, M. Ayub Ali, C. Lalmuanthanga, Pritam Mohan and M. A. Ayub Shah. Histopathological changes caused by accidental avocado leaves toxicity in rabbits. Int. J. Res. Pharm. Sci. Vol-1, Issue-4, 517-520, 2010

- ii) Lalrinpuia and Lalmuanthanga, C. (2015). Pharmacokinetics of ceftriazone following intravenous administration in mizo local pig (Zovawk). Indian Veterinary Journal. Submitted and accepted for publication.
- iii) Binita Angom, C. Lalmuanthanga and Pritam Mohan (2015): Analgesic and Anti-Inflammatory Effect of an Aqueous Extract of *Dendrocnide Sinuata* (Blume) Chew. Explor. Anim. Med. Res., Vol.5, Issue - 2, 2015, p. 133-141.
- iv) Lalrinpui and C.Lalmuanthanga (2015): Pharmacokinetics of Ceftriaxone Following Intraveneous Administration in Mizo Local Pig (Zovawk). Indian Vet. J., October 2015, 92 (10): 81-83.
- v) Binita Angom, Pritam Mohan, C Lalmuanthanga, Prabhakar Maurya and Khangembam Victoria Chanu (2018). Hepatoprotective activity of aqueous extract of *Dendrocnide sinuata*, (Blume) Chew. J. Pharmacogn & Phytochem. 7(3): 1072-1077

Sl.No.	Sanctioned	Faculty in place	Vacant	Faculty recommended
	Faculty		Post	by the
				ICAR/UGC/VCI/other
				regulatory bodies
1	Professor -1	Nil	1	1
			(Advertised)	
2	Associate	Nil	1	1
	Professor-1		(Advertised)	
3	Assistant	1+1 (one regular +	Nil	1
	Professor-1	one Contractual)		

6.4.2 Faculty Strength

6.4.3 Technical and Supporting staff:

Sl.No.	Sanctioned Post	Staff in place	Vacant Post	Staffs recommended by VCI, 2016
1	Field cum Laboratory Assistant (FCLA)-2	1	1	2
2	Multitasking Staff (MTS)-1	1	Nil	1

6.4.4 Laboratories

1. Infrastructure Availabilities

- 1) Name of Laboratory:
 - a) Pharmacy Labaroratory
 - b) Experimental Laboratory
 - c) Analytical Laboratory

2: Equipments:

- i) HPLC (Binary-Pump) with UV/VIS and Fluorescence detector
- ii) Fluorescence -Spectrophotometer
- iii) UV/VIS spectrophotometer
- iv) ELISA reader
- v) Passive avoidance apparatus
- vi) Plethysmometer
- v) Analgesiometers (Tail flick apparatus, hot and cold apparatus)
- vi) Lyophilizer
- vii) Monopan and double pan weighing machine with weights
- viii) Precision digital weighing machine
- ix) Centrifuge machines
- x) Cold centrifuge machine
- xi) Organ bath with physiograph
- xii) Powerlab
- xiii) Convulsiometer
- xiv) Ultrasonicator
- xv) Microwave digester
- xvi) Deep freezers
- xvii) Regfrigerators
- xviii) Hot Air Oven
- xix) Autoclave
- xx) BOD Incubator
- xxi) Laminar Flow

6.4.5 Conduct of practical and hands on training:

The practical class is of two hours duration for all the courses offered to students of PG programme. Students used to do the practicals by themselves under the supervision of

the faculty/ course instructor. Students used to record their observations in practical manual. A hand on practice is the best way of learning.

6.4.7 Feedback of stakeholders:

The feedback is received from the students, parents and employer (Annexure-I). This feedback is used to improve the curriculum delivery, course evaluation process, development of infrastructure in the different laboratories and sections of the department, availability chemical and reagents and research facilities

6.4.8 Students intake and attrition in programme for last five years (Programme wise):

M.V.Sc course was introduced in the department since 2007 and so far nine (9) students got admitted and all of them had completed the course. So far the attrition rate is zero. The M.V.Sc programme in the department had been kept abeyance due to shortage of requisite faculties since 2011.

Name of the Degree	Actual student admitted			Attrit	ion (%))				
Programme	in la	st five	e year	S						
M.V.Sc.	Y1	Y2	Y3	Y4	Y5	Y1	Y2	Y3	Y4	Y5
(Vet.Pharmacology & Toxicology)	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

6.4.9. ICT application in Curricula delivery:

Various ICT tools are being used for conducting Theory and Practical classes of BVSc andPostgraduate students. All the faculties of the department are digitally literate.

- Use to take classes supported with visual presentation by detail PowerPoint slides
- Showing videos of related topics and animated software to understand the mechanism of drug action and drug effects on tissues so as to minimise the use of laboratory animals.
- Students are asked to present class seminars with the help of material collected by them from the Internet, e-journals and books and this is grooming them for their future.
- Google classroom, zoom, google meet or any other webinar tools are also used as and when it is applicable.
- Updated and modern technologies available in Internet are informed to the students by providing the sites to visit.

6.4.10. The information pertaining to 6.4.1 to 6.4.9 shall be provided for each one of UG, PG and Ph. D Degree Programme, separately, and to be presented college-wise: Yes

6.4.11. Sicne the accreditation of Programmes is related to the All India Admission from ICAR and also having weightage for college accreditation, therefore the data presented in the section 6.4 is liable to the verification at any stage.

6.4.12. Certificate (Applicable when SSR is submitted for Programme)

I, the Dean, Dr. L. Hmar, hereby certify that the information contained in the section 6.4.1 to 6.4.9 are furnished as per the records available in the college, and degree awarding university.

DEAN COLLEGE OF VETERINARY SCIENCES & AH CENTRAL AGRICULTURAL UNIVERSITY (*) SELESIH, AIZAWL - 796014 MIZORAM

Signature of Dean of the college with Date & Seal

COLLEGE OF VETERINARY SCIENCES & ANIMAL HUSBANDRY CENTRAL A GRICULTURAL UNIVERSITY (IMPHAL) SELESIH, AIZAWL, MIZORAM, 796015

Department	: Veterinary Pharmacology	& Toxicology
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Name of the Student : Lalring uia

Registration No. : CAU/194-V/05 (B)

Degree Programme : MVSc (Pharmacology & Toxicology)

I. Students' feed back on Course Curriculum, academic regulation, research facilities

Particulars		Satisfactory(1)	Good(2)	Very Good (3)	Excellent(4)
1	CAU academic regulation for PG and PhD programme 2008 &			3	
	2016				
2	Lecture schedules as per the ICAR revised syllabus.			3	
3	Allocation of hours and credits to the courses (Theory & Practical)			3	
4	Laboratory experiments for courses			3	
5	Course evaluation and assessment			3	
б	Research facilities in the department			3	

II. Students' feedback on faculty of the department

	Particulars	Satisfactory(1)	Good(2)	Very Good (3)	Excellent(4)
1	Subject command of the faculty			3	
2	Quality of teaching			3	
3	Use of innovative teaching aids & resources		2		
4	Coverage of syllabus			3	
5	Transparency and impartial in evaluation			3	

	Particulars		Satisfactory(1)	Good(2)	Very Good(3)	Excellent(4)
	16	i) Classroom			3	
		ii) Laboratory			3	
1	Curricular	iii) Internet facility			3	
	Casta	iv) ICT enabled classroom		2		
		v) CIF facility				
	Co	i) E-learning centers			3	
2	curricular	ii) Seminar hall			3	
	based	iii) Technical hub			3	
	Extra Curricular based	i) Sports			3	
		ii) Gym		2	99 	
3		iii) NSS/NCC		2	1	
		iv) Cultural Club		2		
		i) Stationery Stores		2		
		ii) Medical Centre		2		
		iii) Guest House	-		3	
		iv) Auditorium			3	
4	General	v) Canteen			3	
		v) Bank with ATM facility		2		
		vi) Hostel facilities			3	
		vii)Campus environment			3	

III. Students' feedback on Infrastructures

Suggestions for improvement (If any):

Signature :



Name

: Lalrimpuia

COLLEGE OF VETERINARY SCIENCES & ANIMAL HUSBANDRY CENTRAL AGRICULTURAL UNIVERSITY (IMPHAL) SELESIH, AIZAWL, MIZORAM, 796015

Department : Veterinary Pharmacology & Toxicology

Name of the Student : Wangkheirakp am Ramdas Singh

Registration No. : CAU/90-V/03(B)

Degree Programme :MVSc

I. Students' feed back on Course Curriculum, academic regulation, research facilities

Particulars		Satisfactory(1)	Good(2)	Very Good(3)	Excellent(4)
1	CAU academic regulation for PG and PhD programme,2008 &2016			3	
2	Lecture schedules as per the ICAR revised syllabus.			3	
3	Allocation of hours and credits to the courses (Theory & Practical)			3	
4	Laboratory experiments for courses		3		
5	Course evaluation and assessment			3	
6	Research facilities in the department			3	

II. Students' feedback on faculty of the department

Particulars		Satisfactory(1)	Good(2)	Very Good(3)	Excellent(4)
1	Subject command of the faculty				4
2	Quality of teaching			3	
3	Use of innovative teaching aids & resources		2		
4	Coverage of syllabus			3	
5	Transparency and impartial in evaluation				4

Particulars		Satisfactory(1)	Good(2)	Very Good(3)	Excellent(4)	
		i) Classroom			3	
		ii) Laboratory	- 1		3	
1	Curricular	iii) Internet facility			3	
	ouseu	iv) ICT enabled classroom		2		
		v) CIF facility				
	Co	i) E-learning centers		2		
2	curricular	ii) Seminar hall	1	2		
	based	iii) Technical hub		2		
	Extra Curricular based	i) Sports	-		3	
		ii) Gym		2		
3		iii) NSS/NCC		2	2	
		iv) Cultural Club			3	
		i) Stationery Stores		2		
		ii) Medical Centre		2		
		iii) Guest House			3	
~~~		iv) Auditorium			3	
4	General	∀) Canteen		2		
		<ul> <li>v) Bank with ATM facility</li> </ul>	1			
		vi) Hostel facilities			3	
		vii) Campus environment		2		

## III. Students' feedback on Infrastructures

Suggestions for improvement (If any):

Cifet. :

Signature

Name : Wangkheirakpam Ramd as Singh

## COLLEGE OF VETERINARY SCIENCES & ANIMAL HUSBANDRY CENTRAL AGRICULTURAL UNIVERSITY (IMPHAL) SELESIH, AIZAWL, MIZORAM, 796015

Department	: Department of Pharmacology & Toxicology
Name of the Student	: Dr. Snigdha Hazarika
Registration No.	: CAU/06-V/08 (M)
Degree Programme	: MVSc

I. Students' feed back on Course Curriculum, academic regulation, research facilities

	Particulars	Satisfactory(1)	Good(2)	Very Good(3)	Excellent(4)
1	CAU academic regulation for PG and PhD programme,2008 & 2016		2		
2	Lecture schedules as per the ICAR revised syllabus.			3	
3	Allocation of hours and credits to the courses (Theory & Practical)		2		
4	Laboratory experiments for courses			3	
5	Course evaluation and assessment			3	
6	Research facilities in the department			3	

## II. Students' feedback on faculty of the department

Particulars		Satisfactory(1)	Good(2)	Very Good(3)	Excellent(4)
1	Subject command of the faculty				4
2	Quality of teaching			3	
3	Use of innovative teaching aids & resources			3	
4	Coverage of syllabus			3	
5	Transparency and impartial in evaluation				4

Particulars		Satisfactory(1)	Good(2)	Very Good(3)	Excellent(4)	
		i) Classroom			3	
		ii) Laboratory			3	
1	Curricular based	iii) Internet facility			3	
		iv) ICT enabled classroom			3	
		<ul><li>マ) CIF facility</li></ul>			3	
	Co	i) E-learning centers		2		
2	curricular	ii) Seminar hall			3	
	Daseu	iii) Technical hub		2		
	Extra Curricular based	i) Sports			3	
		ii) Gym			3	
د		iii) NSS/NCC			3	
		iv) Cultural Club			3	
		i) Stationery Stores		2		
		ii) Medical Centre			3	
		iii) Guest House			3	
		iv) Auditorium			3	
4	General	v) Canteen		2		
		v) Bankwith ATM facility	1			
		vi) Hostel facilities			3	
		vii)Campus environment				4

## III. Students' feedb ack on Infrastructures

Suggestions for improvement (If any):

Signature	: S. Hazarika
Name	: Dr. Snigdha Hazarika

## COLLEGE OF VETERINARY SCIENCES & ANIMAL HUSBANDRY CENTRAL AGRICULTURAL UNIVERSITY (IMPHAL) SELESIH, AIZAWL, MIZORAM, 796015

Department	: Veterinary Pharmacology	& Toxico logy
------------	---------------------------	---------------

Name of the	Student	: Dr. C. Lalchhandama
TIATING OT DIG	Student	. DI. C. Dauluana

Registration No. :2009-V-02(M)

Degree Programme : MVSc

I. Students' feed back on Course Curriculum, academic regulation, research facilities

	Particulars	Satisfactory(1)	Good(2)	Very Good(3)	Excellent(4)
1	CAU academic regulation for PG and PhD programme,2008 & 2016		Good		
2	Lecture schedules as per the ICAR revised syllabus.		Good		
3	Allocation of hours and credits to the courses (Theory & Practical)		Good		
4	Laboratory experiments for courses		Good		
5	Course evaluation and assessment		Good		
6	Research facilities in the department		Good		

## II. Students' feedb ack on faculty of the department

	Particulars	Satisfactory(1)	Good(2)	Very Good(3)	Excellent(4)
1	Subject command of the faculty			3	
2	Quality of teaching			3	
3	Use of innovative teaching aids & resources			3	
4	Coverage of syllabus			3	
5	Transparency and impartial in evaluation		3		

	Par	ticulars	Satisfactory(1)	Good(2)	Very Good(3)	Excellent(4)
		i) Classroom			3	
		ii) Laboratory			3	
1	Curricular	iii) Internet facility	1			
	ouseu	iv) ICT enabled classroom	1			
		v) CIF facility				
5	Co	i) E-learning centers	1			
2	curricular	ii) Seminar hall	1			
	based	iii) Technical hub	1			
	Extra 3 Curricular based	i) Sports	1		1	
2		ii) Gym	1		1	
3		iii) NSS/NCC	1			
		iv) Cultural Club	1			
		i) Stationery Stores	1			
		ii) Medical Centre	1			
		iii) Guest House	1			
		iv) Auditorium	1			
4	General	v) Canteen	1			
		v) Bank with ATM facility				
		vi) Hostel facilities	1			
		vii) Campus environment				1

# III. Students' feedback on Infrastructures

Suggestions for improvement (If any):

Signature

:

all

Name

: Dr. C. Lalchhand ama

# **MVSc in LIVESTOCK PRODUCTS TECHNOLOGY**

## 6.4 Self study report for MVSc in Livestock Products Technology

## 6.4.1 Brief History of degree programme: Pl. mention the following

1) Year in which the degree programme was initiated: M.V.Sc. programme was initiated in the year of 2011.

2) Whether the nomenclature, curricula or syllabus of the degree programme as per guidelines of ICAR, 2009: Yes. The syllabus is totally as per guidelines of ICAR, 2009.

3) Accomplishments in brief.

i) MVSc students passed out since introduction of the programme: 16 till date and 4 ongoing.

ii) PhD students passed out since introduction of the programme: Ph.D. program is yet to be introduced

iii) Publication: 13

iv) Any other accomplishment which will justify the degree programme to be accrediatated by ICAR (Mostly academic and research related accomplishments):

1. Three (3) awards by 2 of the MVSc students for best poster presentation on 11th Conference of Indian Meat Science Assolution (IMSACON – XI) and International Symposium organized by ICAR-National Research Centre on Meat, Hyderabad during 14 - 16 December, 2022.

2. One (1) best oral paper presentation, One (1) 2nd best oral paper presentation, One (1) 3rd best oral paper presentation in International conferences based on the M.V.Sc Research works of the students.

3. The first M.V.Sc student passed out from the Department has cleared ARS and was posted as Scientist in ICAR.

4. Most of the students either are pursuing degree at top Institutes like IVRI or are employed well in some reputed colleges and corporate sectors.

5. 3 technologies were selected by the Central Agricultural University as deliverable technologies and were published in the list of CAU Technologies.

Sl No	Designation	Faculty in	Vacant position	Faculty recommended
		position		by VCI, 2016
1.	Professor	1	1	1
		(Reemployed)	(Advertised)	

6.4.2. Faculty strength of the department

2.	Associate	0	1	1
	Professor		(Advertised)	
	Assistant	1	1	2
	Professor			

There were two Assistant Professors (Dr. Pragati Hazarika and Dr. Kevimese Khate) upto March, 2018. Dr. Kevimese Khate was transferred to C.V.Sc & A.H. Jalukie, Nagaland in the month of April 2018 and a Professor, Dr. Altaf Hussain Malik, was appointed on contract basis w.e.f. June 2018 to January 2020. Recently, Dr. V.V. Kulkarni, Professor, has joined on February, 2021, on contract basis and all of them have been helping in taking undergraduate and postgraduate classes and also in guiding M.V.Sc scholars.

6.4.3. Technical and supporting staffs of the department

Sl.	Designation	Staff in position	Vacant	Staffs recommended by
No.			position	VCI, 2016
1	FCLA	1	-	1
2	MTS	2	-	2

#### 6.4.4. Classrooms and Laboratories:

- a) Mention the functional laboratories and justify if it is sufficient to meet the course curricula requirement.
  - i) Slaughtering Unit with carcass utilization and waste management unit Construction going on, however, a mini Slaughter Unit with all the essential equipments and facilities are set up in the Department itself and slaughtering of animals and birdsare carried out regularly.
  - ii) Meat processing and Examination laboratory Equipped with all the major and minor equipments for further processing as well as examination and quality control. Value added meat products are prepared and sold from the Department on a regular basis.
  - iii) Dairy Technology Lab Equipped with most of the required equipments. Dairy products are prepared and sold from the Department on a regular basis.
  - iv) Cold storage Enough facilities for cold storage.
  - v) Sale Booth Construction going on.

- vi) Analytical Laboratory.
- vii) Quality Control Laboratory.
- viii) Cooking unit
- ix) Smoke Unit
- x) Sensory Evaluation lab
- b) List of major equipment, instructional units and facilities.
  - i) Food texture analyser
  - ii) Bowl chopper
  - iii)Meat mincer
  - iv)Hamburger forming machine
  - v) Meat slicer
  - vi)Sausage filler
  - vii) Smoking unit
  - viii) Captive bolt pistol

ix)Band saw

- x) Deep freezer
- xi)Vacuum packaging machine
- xii) Defeathering machine
- xiii) Laminar flow
- xiv) Bacteriological colony counter
- xv) Gerber's centrifuge
- xvi) Centrifuge
- xvii) Distillation apparatus
- xviii) Brine injector
- xix) Electric stunner
- xx) Planetary Mixture
- xxi) Recycled Distillation water plant
- xxii) Portioning machine
- xxiii) Incubator

## 6.4.5 Conduct of practical and hands on training:

The practical class is of two hours duration for all the courses offered to students of PG & PhD programme. Students used to do the practicals by themselves under the

supervision of the faculty/ course instructor. Students used to record their observations in practical manual.

**6.4.6. Supervision of students in PG / PhD programme**: Number of students being supervised by faculty in case of Masters/ PhD programme(as per ICAR guidelines)

# Recognition for guiding of students (PG & PhD research) as per clause no. 2.12.2 of CAU Academic regulations-2016 for Master and PhD degree programmes

## Master's Programme:

Associate Professor and above and their equivalents **OR** Assistant Professor and equivalents with Ph. D. degree in the discipline/ subject who has published two research papers other than his /her Master's and Ph. D. thesis **OR** Assistant Professor and equivalents without Ph. D. degree, provided he/she has at least two years of PG teaching experiences and 5 (Five) research papers published in referred journals with minimum NAAS rating of 4 (other than his /her Master's thesis.

## Maximum number of students to be guided by faculty

As per clause no. 2.8.1(iii) of CAU Academic regulations-2016 for Master and PhDdegree programmes, at any given time, Professor, Associate Professor and Assistant Professor shal not be a chairperson for more than 6,5 and 4 PG students (Master's and PhD combined) respectively

Name of faculty	2015-	2016-	2017-	2018-	2019-	2020-	2021-
member	16	17	18	19	20	21	22
Dr. Pragati Hazarika,		1	1	3	3	2	1
Ph. D. in Livestock							
Products Technology							
Dr. Kevimese Khate,	1		1				
Ph. D. in Livestock							
Products Technology*							
Dr. V.V. Kulkarni						2	1
Ph. D. in Livestock							
Products Technology							

• Transferred to C.V.Sc. & A.H., C.A.U., Jalukie, Nagaland, in 2018

#### 6.4.7 Feedback of stakeholders:

The college through a structured feedback mechanism (copy of feedback format attached as **Annexure -I**) from passed out students ensures quality teaching learning process and research work in the area of Veterinary and Animal sciences. The distribution, collection and analysis of filled feedback form passed out UG, PG & PhD students are done through online / offline mode. Students provide their feedback on Course curriculum, academic regulation, examination system, research facilities, quality of teaching and availability of infrastructures in the college by filling up a prescribed format. Feedbacks are taken into consideration with utmost sincerity and corrective measures / improvements are made by the Head of the departments and Dean of the college. This feedback is used to improve the curriculum delivery, course evaluation process, development of infrastructure in the different laboratories and sections of the department, availability chemical and reagents and research facilities. Feedback is also received from parents, other institutes, Concerned Directorate of State Government time to time.

	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
Sanctioned seat	4	4	5	5	5	5
Actual admitted	1	2	3	3	4	3
Attrition %	0	0	0	0	0	33.33%

6.4.8. Students intake and attrition in programme for last five years (Programme wise)

# 6.4.9. ICT application in Curricula delivery:

- Use to take classes supported with visual presentation by detail PowerPoint slides
- Showing videos of related topics
- Students are asked to present class seminars with the help of material collected by them from the Internet, e journals and books

Updated and modern technologies available in Internet are informed to the students by providing the sites to visit.

**6.4.10.** The information pertaining to 6.4.1 to 6.4.9 shall be provided for each one of UG, PG and Ph. D Degree Programme, separately, and to be presented college-wise: Yes

**6.4.11.** Sicne the accreditation of Programmes is related to the All India Admission from ICAR and also having weightage for college accreditation, therefore the data presented in the section 6.4 is liable to the verification at any stage.

## **6.4.12.** Certificate (Applicable when SSR is submitted for Programme)

I, the Dean, Dr. L. Hmar, hereby certify that the information contained in the section 6.4.1 to 6.4.9 are furnished as per the records available in the college, and degree awarding university.

101

DEAN COLLEGE OF VETERINARY SCIENCES & AH CENTRAL AGRICULTURAL UNIVERSITY (*) SELESIH, AIZAWL - 796014 MIZORAM

Signature of Dean of the college with Date & Seal
### COLLEGE OF VETERINARY SCIENCES & ANIMAL HUSBANDRY CENTRAL AGRICULTURAL UNIVERSITY (IMPHAL)

SELESIE, AIZAWL, MIZORAM, 796015

Department	: Livestock Products Technology (	LPT)
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Name of the Student : Dr. Keshab Debnath

Registration No. : U-18-MZ-01-003-M-V-020

Degree Programme : M.V.Sc

Students' feed back on Course Curriculum, academic regulation, research I. facilities

Particulars		Satisfactory(1)	Good(2)	Very Good(3)	Excellent(4)
1	CAU academic regulation for PG and PhD programme,2008 & 2016				4
2	Lecture schedules as per the ICAR revised syllabus.				4
3	Allocation of hours and credits to the courses (Theory & Practical)				4
4	Laboratory experiments for courses	100			4
5	course evaluation and assessment				4
6	Research facilities in the department			3	

#### 11. Students' feedback on faculty of the department

Particulars		Satisfactory(1)	Good(2)	Very Good(3)	Excellent(4)
1	Subject command of the faculty				4
1.1	Quality of teaching				4
3	Use of innovative teaching aids & resources			1000	4
4	Coverage of syllabus				4
5	Transparency and impartial in evaluation			1.150	4

807202

	Par	ticulars	Satisfactory(1)	Good(2)	Very Good(3)	Excellent(4)
-		i) Classroom				4
		ii) Laboratory				4
1	Curricular	iii) Internet facility	1			
	based	iv) ICT enabled classroom				4
		v) CIF facility				4
Co		i) E-learning centers		2		
2	curricular	ii) Seminar hall				4
	Dased	iii) Technical hub				4
		i) Sports		2		
-	Extra	ii) Gym		2		
3	Curricular	iii) NSS/NCC		2		
	Dased	iv) Cultural Club			3	
		i) Stationery Stores			3	
		<li>ii) Medical Centre</li>			3	
		iii) Guest House		2		
		iv) Auditorium				4
4	General	v) Canteen		2		
		v) Bank with A i'M facility		2		
		vi) Hostel facilities			3	
		vii)Campus environment		10	3	

### 111. Students' feedback on Infrastructures

Suggestions for improvement (If any): Needs to improve internet facility, Canteen and hostel facility. Thank You.

Signature

2

80712021

Name

: Dr. Keshab Debnath



# SELF-STUDY REPORT

B.Sc. (Hons.) Food Nutrition and Dietetics COLLEGE OF COMMUNITY SCIENCE SANGSANGGRE, TURA, MEGHALAYA CENTRAL AGRICULTURAL UNIVERSITY 2014-15 to 2020-21



SUBMITTED TO NATIONAL AGRICULTURAL EDUCAION ACCREDITATION BOARD, ICAR, NEW DELHI

### **CONTENT**

Sl. No	Particulars
1.	Brief History of the College
2.	Historical Background of Degree Programme
3.	Faculty Strength
4.	Technical and Supporting Staff
5.	Classrooms and Laboratories
6.	Conduct of Practical and Hands-on Training
7.	Supervision of Students in PG/PhD Programme
8.	Feedback of Stakeholders (Students, Parents, Industries, Employers, Farmers
9.	Student intake and attrition in the programme for last five years
10.	ICT Application in Curricula Delivery
11.	Certificate

### 6.4 Self study report of the programme

Central Agricultural University (CAU), Imphal was established by an Act of Parliament 1992 No. 40 dated 26th December 1992. In exercise of the powers conferred by CAU Act, the Vice Chancellor of CAU, Imphal issued the first ordinance in 1997 for establishment of College of Home Science in the picturesque state of Meghalaya. With reference to improving the quality of life of people in North Eastern Hill Region, it is imperative to provide training, exposure and awareness through Home Science education to both rural and urban women that shall help to sharpen their knowledge and refine their skills for promotion and thus helping them become better homemakers and income generators for the family.

As a means to this end, the College of Home Science was established in Tura, West Garo Hills under CAU, Imphal, Manipur. The foundation work for starting the college was undertaken by Dr. Rita Singh Raghuvanshi, Officer on Special Duty. Thus, the College of Home Science was started, with a batch of 10 students (from Arunachal Pradesh, Manipur and Meghalaya) on September 24th 2004, in a rented building (Coal India building) at Dakopgre, Tura located in Garo Hills of Meghalaya till August 2009. This town was chosen to establish the College of Home Science because of its exceptional scenic beauty and more importantly, the society is matrilineal in nature, laid the foundations for human empowerment. Since, the college is exclusively meant for young girls, the culture and traditions of the region are in harmony with the vision with which the college was established.

The jurisdiction of the college stretches to all the North Eastern Hill states, except Assam. The mandate of the college includes imparting education in different branches of Home Science and Allied sciences, to contribute in the advancement of learning and research in Home Science and its allied fields. The primary mission of the college is to impart quality education in all branches in order to create proficient manpower for catering the needs of the society. The mandate of the college includes imparting education in different branches of Home Science and Allied sciences, to contribute in the advancement of learning and research in Home Science and its allied fields.

In addition to the Administrative and Academic building, the campus boasts of excellent facilities for women's education with smart classrooms, Wifi facilities in the campus, well equipped laboratories, a Girls Hostel, a Guest House with Hon'ble Vice Chancellor's Camp Office, Quarters for employees, playground for students, Food Processing Unit, Spinning

and Weaving Unit, Laboratory Nursery School, VTC hostel, MTTC building, Animal shed, etc.

College	Adm	inist	ration
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1	Name of the College	College of Community Science
2	Affiliation	Central Agricultural University (Imphal), Manipur
3	Address& Email ID	College of Community Science, Central Agricultural University, SangSanggre, Tura, West Garo Hills (District), Meghalaya PIN: 794005 <i>Email:</i> <u>deanhomescience@gmail.com</u>
4	Name of the Dean	<b>Dr. Jyoti V. Vastrad</b> College of Community Science, Tura, Meghalaya
5	Establishment of the College	College was established in the year 2004

### 6.4.1 Brief History of the Degree Programme

College of Community Science [erstwhile College of Home Science] a constituent college of Central Agricultural University, Imphal, Manipur, located in Sangsangre, Tura, started its first academic session only in B.Sc. (Hons.) Community Science [erstwhile Home Science] in the year 2004-05. In the Academic Session 2014-15, a parallel under-graduate degree programme in Food Nutrition and Dietetics was introduced in the college after approval of the Academic Council of Central Agricultural University.

Prior to the implementation of the ICAR-Fifth Deans' Committee recommendation to introduce this particular in all agricultural universities, Punjab Agricultural University, Ludhiana had started B.Sc. Nutrition and Dietetics as a 3-year programme in 2009-10, which was upgraded to a 4-year programme in 2012-13. Subsequently, some colleges of the Agricultural Universities in India (C.A.U & S.A.U) introduced the four-year Undergraduate degree programme for Food Nutrition and Dietetics with the implementation of Fifth Deans' Committee of ICAR. Some government Universities like S.N.D.T Women's University, Mumbai & Delhi University, Delhi are providing 3 years' education for B.Sc. Nutrition and Dietetics. However, this course has been introduced also in some deemed and private universities in India, such as Chandigarh University, Chandigarh; Lovely Professional University, Jalandhar; Shoolini University, Himachal Pradesh; and Sharda University, Greater Noida.

B.Sc. (Hons.) Food Nutrition and Dietetics is a highly specialized course that aims to build a holistic understanding through study and research in core fields of nutritional biochemistry, food microbiology, human physiology, public health nutrition & a host of other fields. These topics offer students a much-needed avenue for comprehensive development. The syllabus of B.Sc. (Hons.) Food Nutrition and Dietetics consists of courses that lay a foundation stone for nutrition science and food quality control management.

Food Nutrition and Dietetics comprise the study of food management and primarily includes advanced learning to improve the quality of life, health, and well-being of individuals by promoting healthy food habits together with researching healthier dietary changes. Globalization has affected the society and changed the food habits and lifestyle of people. In this context, the demand for nutritionists/dieticians has significantly increased over the years. After completing the B.Sc. (Hons.) Food Nutrition and Dietetics a candidate will not have to worry about future career graphs because a lot of career opportunities are available in this field. The most common roles the graduates work as are:

- ✓ Nutrition specialist- Holistic Nutritionist & Sports Nutritionist.
- ✓ Dietician- Registered and Personal.
- ✓ Food quality Inspector
- ✓ Food processing Manager
- ✓ Health Coach
- ✓ Public Health Nutritionist
- ✓ Nutrition Education & Research
- ✓ Paediatric dietician/nutritionist
- ✓ Community dietician/nutritionist

### Timeline of the College of Community Science & B.Sc. (Hons.) Food, Nutrition and Dietetics



### 6.4.2 Faculty Strength

### 6.4.2.1 Faculty Strength of the college

Sl. No.	Sanctioned Faculty	Faculty in place	Vacant position	Faculty recommended by the ICAR/UGC/VCI/other regulatory bodies
1	Professor	3**	6	7
2	Associate Professor	3	3	14
3	Assistant Professor	15 (8+4+3)	14 (13+1*)	28
4	Subject Matter Specialist (SMS) (EGH & SGH)	12	-	NA
	Total	33	23	49

** Promoted Under CAS, *Vacancy in MTTC-VTC

Total 8 posts are advertised and will be recruited shortly.

### 6.4.2.2 Faculty Strength of the Department of Food Science and Nutrition

Sl. No.	Sanctioned Faculty	Faculty in place	Vacant position	Faculty recommended by the ICAR/UGC/VCI/other regulatory bodies
1.	Professor	1*#	2(1+1*) (Advertised)	2
2.	Associate Professor	1	-	4
3.	Assistant Professor	7 (2+5)#	6(Advertised)	8
	Total	9	9	14

*Newly added post, *# Promoted under CAS

#Guest/MTTC-VTC faculty offer courses of Department of Food Science and Nutrition. The existing staff strength including guest faculty is sufficient to run the programme

# **6.4.2.3 Faculty from other campuses of CAU (Imphal) offer online courses under cross campus teaching and the details of the courses is as follows**

Courses	Name of the faculty	Designation and Specialization	Campus
<ul> <li>✓ Nutritional Biochemistry-I</li> <li>✓ Nutritional Biochemistry-II</li> </ul>	Dr. LK Mishra	Associate Professor (Biochemistry)	CAU, Imphal
<ul> <li>✓ Community Nutrition</li> <li>✓ Community Nutrition and Education</li> <li>✓ Pulses and Oil Seeds: Preparation and utilization</li> <li>✓ Fruits and Vegetables: Preparation and</li> </ul>	Dr. Eloni Vida	SMS (Food & Nutrition)	CAU-KVK, East Siang, Phasighat

Courses	Name of the faculty	Designation and Specialization	Campus
utilization- II			
<ul> <li>✓ Cereals and Millets: Preparation and utilization</li> </ul>	Dr. AK Mishra	Dy. Director of Research (Agricultural Processing & Food Engineering)	CAU, Imphal
<ul> <li>✓ Food Nutrition policy and Agriculture</li> <li>✓ Food Standard and Quality Control</li> </ul>	Dr. Shatabhisa Sarkar	Programme Coordinator (Food Engineering & Technology)	CAU-KVK, Sepahijela, Tripura
✓ Nutrigenomics	Dr. Baleshwor Sharma	Assistant Professor (Biochemistry)	CAEPHT, CAU, Sikkim
<ul> <li>✓ Food Preservation and Storage</li> </ul>	Dr . A Relang	Assistant Professor (contractual) (Processing and Food Engineering)	CAU, Imphal
<ul> <li>✓ Fruits and Vegetables:</li> <li>Preparation and utilization- I</li> </ul>	Dr. Ng. Piloo	SMS (Post Harvest Technology)	CAU-KVK, Phasighat
<ul> <li>✓ Milk and Milk Products: Preparation and utilization</li> </ul>	Dr. Rakesh Raiger	Assistant Professor (Food Processing Engineering)	CAEPHT, CAU, Sikkim
<ul> <li>✓ Principles of Biochemistry</li> <li>✓ Food Microbiology</li> </ul>	Dr. Sanjay Swami	Professor (Soil Science)	CPGSAS, CAU, Barapani

### 6.4.3 Technical and Supporting Staff

Technical and Supporting staffs of the college are listed as under:

Sl. No.	Technical staff /Supporting staff	Sanctioned	In place
1.	Assistant Engineer	1	Nil
2.	Sr. Library Assistant	1	1
3.	Junior Engineer (civil)	1	2 (1+1#)
4.	Field cum Lab. Assistant	11	10
5.	Farm Assistant /Livestock	5	2
6.	Library Assistant	3	3
7.	Electrician	1	1
8.	Plumber	1	1
9.	Carpenter	1	1
10	Driver	5	1(1 invalid
10.		5	pension)
11.	Supporting Staff (MTS & Handyman)	32	30

Sl. No.	Technical staff /Supporting staff	Sanctioned	In place
12.	Horticulture Assistant	1	1
13.	Female Health Worker	3	3
14.	Compounder cum dresser	1	1
15.	Medical Officer	1	1
	Total	68	58

### 6.4.4 Classrooms and Laboratories

### 6.4.4.1 Classrooms and Laboratories of the college

Sl. No	Particulars	Number	Remarks
1.	Lecture Hall	6	✓ Lecture Halls are equipped with sufficient seating arrangement, White Boards, Smart Boards and Projector
2.	Seminar Hall cum class room	2	✓ Seminar halls are equipped with screen projectors, a computer with proper power backup
3.	Conference Hall	2	<ul> <li>One conference hall in the main college building equipped with a computer, a screen projector, proper audio facility and has seat capacity of 80</li> <li>One more conference hall in Food Science and Nutrition department equipped with a screen projector, LCD TV, audio facility and has seating capacity of 50</li> </ul>
4.	Smart Classroom	1	✓ College has one smart classroom which is equipped with an advanced digital podium, speakers, microphone, and a large screen LCD TV and having seating capacity of 40
5.	Language Laboratory	1	<ul> <li>Language laboratory is equipped with 30 computers with uninterrupted power supply and with Internet connectivity.</li> <li>Each computer system has foreign language software installed</li> </ul>
6	IT Laboratory	1	<ul> <li>✓ Equipped with 18 computer for practical session</li> <li>✓ Utilised for cross campus teaching</li> </ul>

6.4.4.2 Classrooms and Laboratories of the Department of Food Science and Nutrition

- ✓ A total of six class rooms are being utilised for the students of both the degree programme i.e.; Community Science (CS) and Food Nutrition and Dietetics (FND).
- ✓ Classrooms are equipped with sufficient seat capacity (35) and each classroom has LAN connectivity with 20Mbps speed.
- ✓ A Smart classroom created under NAHEP-IDP is also available to conduct online/cross campus classes/programmes.
- ✓ At present the department has four laboratoris for conducting practicles and hands on trainning programes.
- $\checkmark$  The laboratories are equipped with the latest equipments and machines for the conduct of practicals.
- ✓ Analytical Instruments for food analysis is available.









**Central Conference Hall at College** 

Sl. No	Department	Name of laboratory	Major equipment
		<ul> <li>✓ Food Processing and Product Development Laboratory</li> </ul>	1. Industrial ovens
		✓ Catering Management Laboratory	2. Dough mixers
	Food and	✓ Food Analysis Laboratory	3. Sugar grinders
	Nutrition	✓ Foods Laboratory	4. Pasta making machine
		✓ Organoleptic Evaluation Laboratory	5. Noodle making machine
		✓ Nutrition Counselling Lab	6. Dryer
			7. Vacuum sealing machine
			8. Equipment for the analysis of protein, fat, fibre etc
1.			9. Colorimeter
			10. Spectrophotometer
			11. Texture analyser
			12. Water bath
			13. Viscometer
			14. Muffle furnace
			15. Hot air oven
			16. Fruit pulper
			17. Baby boiler
			18. Grinding mill

6.4.4.3 The laboratories and equipment available in all the departments of the college are enlisted below



Department of Food Science and



Food Processing and Product Development



### 6.4.5 Conduct of Practical and Hands-on Training

A total of 180 credits are required to be completed for graduation. Out of the 180 credits, 91 credits are practical oriented however 89 credit hours have been given to theory. Fifty percent of the credit requirement is practical based. Sufficient facilities are available to conduct all the practical credits.

Courses	Practical and Hands-on Training	Practical and hands-on training as per curriculum
Core Courses in the FSN 235 (2+2) FSN 236 (2+2) FSN 351 (2+2) FSN 352 (2+2) FSN 354 (2+2) FSN 482 (0+3) FSN 482 (0+3) FSN 484 (0+2) FSN 484 (0+2) FSN 481 (0+2)	<ul> <li>Department of Food Science and Nutrition</li> <li>The students are given hands-on-training in the basic concepts of measurements in terms of raw and cooked foods.</li> <li>The analysis of nutrients and mineral content of food is taught to the students using sophisticated equipments in the laboratories.</li> <li>Foods to be consumed to maintain optimal health throughout the life span.</li> <li>Modification of normal diet to suit particular disease conditions.</li> <li>Cooking techniques to preserve nutrition.</li> <li>Techniques to maintain food quality.</li> <li>Maintenance of physical fitness through diet and exercise.</li> <li>The art of counselling a patient.</li> <li>Exposed to community-based studies where they learn to interact with the local community</li> </ul>	<ul> <li>As per curriculum</li> <li>Learned portion size control.</li> <li>Learned techniques of food analysis prepares them for in-depth research and analytical; skills.</li> <li>Prepared the students for experiential learning programmes.</li> <li>Students mastered the knowledge for setting up their own enterprise.</li> <li>Learned techniques for nutrition counselling</li> <li>Paved avenues for setting up/working in fitness centres and counselling centres.</li> <li>Learned quality control measures in food production.</li> <li>Learned the art of rapport building and hands-on-training on anthropometric measurements</li> </ul>
		<ul> <li>✓ Readied them for future community outreach and welfare programmes.</li> </ul>

### 6.4.5.1 Student READY Programme

To provide hands on experiences the students of Food Nutrition and Dietetics are placed under various institutes namely food industries, hospitals to have better exposure and knowledge about recent skills and practices.

Sl. No.	Name of the institutes/industry placed	Year of placement	Knowledge Gained
1.	Thangjam Agro Industries Pvt Ltd, Imphal East, Manipur	2021	✓ Commercial production of pickles and other preserved goods using canning lines, double jacketed steam machines, packaging machines.
2.	Bless Bakery, Tura	2021	<ul> <li>✓ Firsthand experience in the commercial production of baked goods</li> <li>✓ Utilized machines such as rotary ovens, deck ovens, spiral mixers, slicers,</li> </ul>

Sl. No.	Name of the institutes/industry placed	Year of placement	Knowledge Gained
			<ul> <li>continuous band sealer, table top sealers etc</li> <li>✓ Stock maintenance</li> <li>✓ Customer service</li> </ul>
3.	Ama Food Products, Jengittchakgre, Tura	2021	<ul> <li>✓ Home scale production of processed foods such as chips from locally available foods such as banana, jackfruit, tapioca etc.</li> <li>✓ Starting a business with minimum investments using local produce.</li> </ul>
4.	Downtown Hospital, Guwahati	2019	<ul> <li>✓ Counseling of patients with different health complications</li> <li>✓ Working of a diet kitchen</li> <li>✓ Case studies of patients admitted in the hospital</li> </ul>
5.	Baptist Hospital, Bangalore	2019	<ul> <li>✓ Counseling of patients with different health complications</li> <li>✓ Working of a diet kitchen</li> <li>✓ Case studies of patients admitted in the hospital</li> </ul>
6.	The Mission Hospital, Durgapur	2019	<ul> <li>✓ Counseling of patients with different health complications</li> <li>✓ Working of a diet kitchen</li> <li>✓ Case studies of patients admitted in the hospital</li> </ul>
7.	Excel Care Hospital, Guwahati	2019	<ul> <li>✓ Counseling of patients with different health complications</li> <li>✓ Working of a diet kitchen</li> <li>✓ Case studies of patients admitted in the hospital</li> </ul>
8.	ThangjamAgroIndustriesPvtLtd,Imphal East, Manipur	2018	✓ Commercial production of pickles and other preserved goods using canning lines, double jacketed steam machines, packaging machines.
9.	Downtown Hospital, Guwahati	2018	<ul> <li>✓ Counseling of patients with different health complications</li> <li>✓ Working of a diet kitchen</li> <li>✓ Case studies of patients admitted in the hospital</li> </ul>
10.	Civil Hospital, Tura	2017	<ul> <li>✓ Counseling of patients with different health complications</li> <li>✓ Working of a diet kitchen</li> <li>✓ Case studies of patients admitted in the hospital</li> </ul>
11.	Bless Bakery, Tura	2017	<ul> <li>✓ Firsthand experience in the commercial production of baked goods</li> <li>✓ Utilized machines such as rotary ovens, deck ovens, spiral mixers, slicers, continuous band sealer, table top sealers etc</li> <li>✓ Stock maintenance</li> <li>✓ Customer service</li> </ul>

### 6.4.6 Supervision of Students in PG/PhD Programme

The information is provided in the separate report on M.Sc. Community Science programme.

# **6.4.7** Feedback of Stakeholders (Students, Parents, Industries, Employers, Farmers etc.)

Feedback from stakeholders is often sought to improve the research, teaching and extension components of the College. After every semester, the students are given an evaluation form to evaluate teacher's performance which is duly filled and submitted to the Academic incharge. A Performa is also provided to the alumnae and parents of the students wherein they provide feedback and suggestions to the college. The organizers of training programmes take feedback from farmers/participants after the culmination of each programme. (Enclosed)

6.4.7.1 Samples of evaluation of teachers' performance taken at the end of every semester (for details refer to Annexure 6.4.7.1)



#### College of Community Science CENTRAL AGRICULTURAL UNIVERSITY TURA, MEGHALAYA

#### PROFORMA FOR EVALUATION OF TEACHER'S PERFORMANCE (Semester Evaluation by Students)

ourse No	FSN 355	Course Title: Xlutration in
ume of the	Course Instructor: Dr. Indu	Emergency
art B		
Indi	cate whether the Instructor	
a.	Provided the course outline and list of re	ference books at the beginning of the semester?(Yes/No)
b.	Topics covered by the teacher :	
	Theory:	tical:
•••••	-ML	· · · · ·
		1
С.	Does the teacher use simple language	and clear expression?(Yes/No)
Ifm	, indicate schoue increase ont is used as	
11 no	i Pronunciation	ii Language and vocebulary
3	iii. Flow of lecturer)	iv. Body language
		V
d.	Is the teacher giving dictation in all the	e lectures? (Yes/No)
	If yes, state whether dictation is given	for important points only or for the entire lecture :
P	Does the teacher provide handout(s) at	ter each lecture? (Yes/No)
f.	Is the teacher using audio-visual/ multi	imedia?
g.	Does the teacher invite/entertains ques	tions at the end of the lecture? (Yes/No)
h.	Has the ability to make the lecturer int	eresting? (Yes/No)
i.	Has given due importance to the diffic	ult/advance topics? (Yes/No)
ort C		
a	Does the instructor have a pleasing per	sonality and cordial behavior? (Yes/No)
b.	Is the instructor regular and punctual in	n taking classes?
с.	Does the instructor give equal attention	n to all the students? (Yes/No)
	20 1 - 2 - 00	
If no	o, does he/she pay more attention to the we	eaker students or selected group of students?
		$\sim$
	×:	() ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )
	s * ×	Name of the student : Kautin A.S.

Name of the College <u>Cell zac</u> of <u>computity</u>

### College of Community Science CENTRAL AGRICULTURAL UNIVERSITY TURA, MEGHALAYA

### PROFORMA FOR EVALUATION OF TEACHER'S PERFORMANCE (Semester Evaluation by Students)

		COL DE C	Vilation - O - to
Cours	e No : !	PSN 356	Course Title : Nutguinen educan
Jame	of the C	Course Instructor: Eloni	Vidya Kayina
art l	3		*
	Indica	te whether the Instructor :	
	a.	Provided the course outline and lis	t of reference books at the beginning of the semester ((les/NO)
	b.	Topics covered by the teacher :	
		Theory:	tical:
		180	
	••••••	11/2	
	с.	Does the teacher use simple lang	uage and clear expression?(Yes/No)
	If no,	indicate where improvement is nee	cessary:
	9	i. Pronunciation	ii. Language and vocabulary
		m. Flow of lecturer)	Iv. Douy language
	đ	Is the teacher giving dictation in	all the lectures?
	u.	If ves, state whether dictation is	given for important points only or for the entire lecture :
	e.	Does the teacher provide handou	tt(s) after each lecture? (Yes/No)
	f.	Is the teacher using audio-visual/	/ multimedia? (Yes/No)
	g.	Does the teacher invite/entertains	s questions at the end of the lecture? (Yes/No)
	h.	Has the ability to make the lectur	rer interesting? (Yes/No)
	i.	Has given due importance to the	difficult/advance topics? (Yes/No)
Dont	C		
alt	2	Does the instructor have a pleasi	ng personality and cordial behavior?
	h.	Is the instructor regular and punc	ctual in taking classes? (Yes/No)
	с.	Does the instructor give equal at	tention to all the students? (Yes/No)
		see and the second response of the second	
	If no,	, does he/she pay more attention to	the weaker students or selected group of students?
		17 19 ^{E.}	Name of the student : Rantin 4.5
			115 - 1 110 - 71

### College of Community Science CENTRAL AGRICULTURAL UNIVERSITY TURA, MEGHALAYA

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### PROFORMA FOR EVALUATION OF TEACHER'S PERFORMANCE (Semester Evaluation by Students)

ame o	n the Course Instructor.	
Part B		
	Indicate whether the Instructor :	red list of reference books at the beginning of the semester? (Yes/No)
	<ul> <li>b. Topics covered by the teacher</li> </ul>	er :
	Theory:	-tical:
	All	All
	·	
		1 (Vac/No)
	c. Does the teacher use simple	language and clear expression?
	If no, indicate where improvement	is necessary:
	i. Pronunciation	ii. Language and vocabulary
	iii. Flow of lecturer)	iv. Body language
		1111 1 mar 46 (V-N-N-)
	d. Is the teacher giving dictation	on in all the lectures?
	If yes, state whether dictance	h is given for important points only of for the entire feetate.
	tan important	pauls
	e. Does the teacher provide ha	ndout(s) after each lecture?
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	e. Does the teacher provide ha f. Is the teacher using audio-v g. Does the teacher invite/ente	ndout(s) after each lecture?
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Part (	<ul> <li>e. Does the teacher provide ha</li> <li>f. Is the teacher using audio-v</li> <li>g. Does the teacher invite/ente</li> <li>h. Has the ability to make the</li> <li>i. Has given due importance t</li> <li>C</li> <li>a. Does the instructor have a p</li> <li>b. Is the instructor regular and</li> </ul>	ndout(s) after each lecture?
<u>Part</u> (	e. Does the teacher provide ha f. Is the teacher using audio-v g. Does the teacher invite/ente h. Has the ability to make the i. Has given due importance t C a. Does the instructor have a p b. Is the instructor regular and c. Does the instructor give equ	ndout(s) after each lecture?
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<u>Part (</u>	e. Does the teacher provide ha f. Is the teacher using audio-v g. Does the teacher invite/ente h. Has the ability to make the i. Has given due importance t C a. Does the instructor have a p b. Is the instructor regular and c. Does the instructor give equ If no, does he/she pay more attention	ndout(s) after each lecture?
<u>Part (</u>	e. Does the teacher provide ha f. Is the teacher using audio-v g. Does the teacher invite/ente h. Has the ability to make the i. Has given due importance t C a. Does the instructor have a p b. Is the instructor regular and c. Does the instructor give equ If no, does he/she pay more attention	ndout(s) after each lecture?

# College of Community Science CENTRALAGRICULTURAL UNIVERSITY TURA, MEGHALAYA

# EVALUATION OF TEACHED'S PERFORMANCE.

	A		
Seme	ster 16	i	Academic Session: 1.1-2.2
o		F. (1. 13)	Course Title . Intel AUNIEL MEMORIAL
Cours	se No :		Course Thie :
Name	e of the	Course Instructor: A.H. Namites S	s.ig.ht
Part	B		
1.	Indic	ate whether the Instructor :	5
	a.	Provided the course outline and list of rel	erence books at the beginning of the semester?(Yes/No)
	b.	Topics covered by the teacher :	
		Theory:	Practical:
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uncient	huai	in Louis governing food sinuice	
ranwa,	LUMM	w thus	nd clear expression? (Ves/No)
a muc	, °С.	Does the leacher use simple language a	na clear expression
	If no	, indicate where improvement is necessary	
		i. Pronunciation	ii. Language and vocabulary
		iii. Flow of lecturer)	iv. Body language
10		The first sector of the distribution in all the	lasturas? (Vas No)
	d.	Is the teacher giving dictation in an the	ar important points only or for the entire lecture
		If yes, state whether dictation is given i	or important points only of for the entire rectare .
		h.nplateixitpourits	11 + 0 (V-AL-)
	e.	Does the teacher provide handout(s) an	er each lecture?
	f.	Is the feacher using audio-visual/ multi	media? (Yes/No)
	g.	Does the teacher invite/entertains ques	ions at the end of the lecture? (Yes/No)
	h.	Has the ability to make the lecturer into	resting? (Yes/No)
	i.	Has given due importance to the difficu	ilt/advance topics? (Yes/No)
Part	C		
	a.	Does the instructor have a pleasing per	sonality and cordial behavior? (Yes/No)
	b.	Is the instructor regular and punctual in	taking classes? (Yes/No)
	c.	Does the instructor give equal attention	to all the students?
	If no	, does he/she pay more attention to the we	aker students or selected group of students?
		81 1947	
			None of the student, phase & Massilian
		59 5	Name of the student

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	College of Community Science
CEN	VTRAL AGRICULTURAL UNIVERSITY TURA, MEGHALAYA
PROFORMA FC	OR EVALUATION OF TEACHER'S PERFORMANCE (Semester Evaluation by Students)
	Control Establishmentson a second sec
Part A	21-22
Ţ	Academic Session:
Semester	Course Title : Namilien Through bye
Course No : PSA - 235	alle M
Name of the Course Instructor:	Da Nalosha yasar
Part B	
1 Indicate whether the Inst	ructor:
a. Provided the cour	se outline and list of reference could at the
b. Topics covered b	y the reaction -
Theory	Practical:
Theory.	1. 21. Totional disesolary and part part another of muturelt
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t	
If no, indicate where in	nprovement is necessary: ii Language and vocabulary
i. Pronunciatio	n iv. Body language
iii. Flow of lec	turer)
	giving dictation in all the lectures? (Yes/No)
d. Is the teacher i If was state wi	hether dictation is given for important points only of for the ended
n yes, oul	1 impodant prints (Yes/No)
e. Does the teach	der provide handout(s) after each fecture:
f. Is the teacher	using audio-visual/ multificult
g. Does the teac	her invite/entertains questions and (Yes/No)
h. Has the abilit	e importance to the difficult/advance topics? (Yes/NO)
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Post C	(Yes/No)
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b. Is the instruc	tor regular and punctual in taking classes
c. Does the ins	tructor give equal anendon to un die
	an more attention to the weaker students or selected group of students?
If no, does he/she p	ay more developed and the second s
	Name of the student: Iniganka Alal
	ID No COSCADAD TZ
	LD. NO. Land College College of Community Spence
	Name of the Concest and Solo J
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A Province of the second state of the second s	

### 6.4.7.2 Samples of feedback from students/alumni/industries





Jo The bean College of Community Science, CAU, Twia, Meghalalya. Subject : Submission of feedback and suggestion. Respected Madam, I have completed my B. Sc deque programme in Home Science (Hons. food Sciend and Nutrition). From my 4 years deque programme I have heard many things like giving presentation, seminar, how to frame questionnair questions, and how to conduct survey and how to do social survey, interaction with the villagers. I have studied my PG programme in this same college. During my PG programme 9 have deneloped qualities to persue purther studies, qualities of report weiting and more over it also help me to get job as research associates and as an academician. And 9 would like to suggest, as a student of Extension we need teachere of our department thedron Poling

с п	L 11
eedt	back with comments for the students:
1.	Area on which training imparted.
	The following were the broader areas/ topics on which trainings/ activities were conducted for the
tuden	IS: -
•	Documentation on Indigenous Wild Edibles in East Khasi Hills.
•	<b>Crop Nursery Management</b> – Hands on Practices on Nursery raising of vegetable crops and germination percentage workout using Pro Trays and under Poly tunnel.
	Convert of Ormetical on Nutri-garden.
	Concept of Organic Farming, Zero Budget Natural farming and Zero Energy Cool chamber.
	Concept of Food processing and peelsoning.
	Jam Juice & Squash RTS preparation
	<ul> <li>Canning of Fish by traditional method</li> </ul>
	Post-harvest handling and value addition of Mushroom.
٠	Insights on Integrated Pest Management with special emphasis on Use of Bio-pesticides and Bio- agents for management of insect pests and diseases.
	Theory and pratical on Grafting of temperate fruit trees at KVK farm.
٠	Theory on Protected cultivation- Discussions on Protected structure demos at KVK Farm.
•	Package of practices of Buckwheat, Maize, Black turmeric and transplanting of tissue-cultured potato.
•	Introduction to Composite Fish Culture and Integrated Farming System.
٠	Entrepreneurship development and opportunities in Agriculture and Allied sectors.
•	Concept of PRA- Tools & Techniques and Method Demonstration- Jam making.
•	Exposure visits: Horti, Hub, North East Food Show and operational villages.
•	Communication and presentation skills.

They have done wonderfully in overcoming challenges because of the new areas of work despite having a short duration course. They exhibited a great sense of proactiveness and cooperation for the success of the program. Their consistency is their strength. They have been very respectful, social and regular and finished their assignments on time. Participated very well with other groups who were introduced; planning and carrying out activities with constructive time management was carried well by the students. They adhered to designated schedule and their basic knowledge and concepts of the earlier career is impressive and may they continue to work with same enthusiasm in their future activities.

### 3. Overall performance of the students.

They exceeded our expectations by delivering more than assigned work despite the tight schedule and new areas of work. They showed very articulate nature and explained their ideas and opinions clearly as and when needed, left no room for miscommunication. Their positive attitude to the works assigned encouraged many other. Their methods of communication on their ideas and vision was clear and it was easy for others to understand quickly. They volunteered to take on additional work to ensure that it was a success They regularly arrive early to the Centre, so there was plenty of time to set up before attending to their tasks. Overall, we give the positive feedback on their performance and we believe they will be doing better ahead.

### 4. Usefulness of the training was for the students.

New tech-knowhows in the stream, wider concepts and ideas apart from their regular professional course were imparted and basically the allied subjects and topics were dissipated to the students wherein they can apply to various sectors in their future endeavours. They performed well in the Method Demonstration in front of Progressive farmers of Smit Village in spite of their initial nervousness and were given full marks by the farmers in terms of Presentation and communication. Their presentations on the final day at the centre was eventually the platform for them to better communicate and skills themselves further. So, we hope that the trainings and practical activities

will further strengthen their knowledge and applicability as and when required for implementation, in particular to the various competitive examinations that they will be partaking.

5. Suggestions for making the in-plant training more effective for the students.

- Course/ Topic specific, with time schedule is a must. 2
- A timeframe for the course of around 3 months or 12 weeks(complete) with sufficient time for their > report preparation may be considered.
- > Daily attendance and activity report of the students may be enquired at the weekend from the College along with action photographs through any social platform.
- > Regular coordination contacts with the host Centre are necessary for further fulfilling the requirements of the program.
- Monetary incentives may be considered for the students as there are activities wherein, they may have to spend for completing an activity.

Signature & Name of the head of the Institute/ In-charge: (Smt. B. Wahlang, Senior Scientist & Head, KVK, EKH)

Address: 5th Mile, Upper Shillong, East Khasi Hills district, Meghalaya.



### IN-PLANT TRAINING FEEDBACK FORM

### Feedback with comments for the students:

· 64. 2 Hds

1. Area on which training imparted.

The following were the broader areas/ topics on which trainings/ activities were conducted for the students: -

- Documentation on Indigenous Wild Edibles in East Khasi Hills.
- Crop Nursery Management Hands on Practices on Nursery raising of vegetable crops and germination percentage workout using Pro Trays and under Poly tunnel.
- Theory and Practical on Nutri-garden.
- Concept of Organic Farming, Zero Budget Natural farming and Zero Energy Cool chamber.
- Concepts of Composting for manure- Practicals on Rapid composting, Vermicomposting.
  - Concept of Food processing and packaging-
    - Jam, Juice & Squash, RTS preparation.
    - Canning of Fish by traditional method.
    - Post-harvest handling and value addition of Mushroom.
- Insights on Integrated Pest Management with special emphasis on Use of Bio-pesticides and Bioagents for management of insect pests and diseases.
- Theory and pratical on Grafting of temperate fruit trees at KVK farm.
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- Package of practices of Buckwheat, Maize, Black turmeric and transplanting of tissue-cultured potato.
- Introduction to Composite Fish Culture and Integrated Farming System.
- Entrepreneurship development and opportunities in Agriculture and Allied sectors.
- Concept of PRA- Tools & Techniques and Method Demonstration- Jam making.
- Exposure visits: Horti. Hub, North East Food Show and operational villages.
- Communication and presentation skills.
- 2. Student's behavior and regularity during the training period.

They have done wonderfully in overcoming challenges because of the new areas of work despite having a short duration course. They exhibited a great sense of proactiveness and cooperation for the success of the program. Their consistency is their strength. They have been very respectful, social and regular and finished their assignments on time. Participated very well with other groups who were introduced; planning and carrying out activities with constructive time management was carried well by the students. They adhered to designated schedule and their basic knowledge and concepts of the earlier career is impressive and may they continue to work with same enthusiasm in their future activities.

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will further strengthen their knowledge and applicability as and when required for implementation, in particular to the various competitive examinations that they will be partaking.

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- > Course/ Topic specific, with time schedule is a must.
- A timeframe for the course of around 3 months or 12 weeks(complete) with sufficient time for their report preparation may be considered.
- Daily attendance and activity report of the students may be enquired at the weekend from the College along with action photographs through any social platform.
- Regular coordination contacts with the host Centre are necessary for further fulfilling the requirements of the program.
- Monetary incentives may be considered for the students as there are activities wherein, they may have to spend for completing an activity.

Signature & Name of the head of the Institute/ In-charge: (Smt. B. Wahlang, Senior Scientist & Head, KVK, EKH)

Address: 5th Mile, Upper Shillong, East Khasi Hills district, Meghalaya.



#### IN-PLANT TRAINING FEEDBACK FORM

Dear Sir/Madam,

Please fill the feedback form with your valuable comments:

1. Please mention the area on which training imparted.

Milization of bio degradable wante "inte usifue susmess, Nut-bon for all-

2. Please comment on the student's behavior and regularity during the training period.

Very corporatione, enthusitie and receptive during the whole program

3. Please comment on the overall performance of the students.

The students have shown been in-hart in all the actuation, helped in again. ate cellection traing programmes and

4. Please comment, how useful the training was for the students?

It would be heally percebudly app for use in the forture is haton Inter helaboration of will frames and com practically applicall

5. Please give your suggestion for making the in-plant training more effective for the students.

to a multi disciplinary multitle KVK ben duly would be trained Und have , the CI expression

Address ...

KVIK IIE, And

Sr. Scientist & Head KVK. Imphal East, Andro CAU, Imphal.....

### 6.4.7.3 Feedback of Visitor

25/6/16	Excellent displays of materials Prepared by Stabb & Students. Products can be Popularised for better visibil of the Dept. and College. Interest of the faculty is
	highly applications Good Luck. Dr.M.B. Chetti ADG (HRP), Education ICAR, New Jethi

### 6.4.8 Student intake and attrition in the programme for last five years

Name of the degree programme	Actual Student Admitted in Last Five Years										Attrition (%)				
	2016-17		2017-18		2018-19		2019-20		2020-21		2016-17	2017-18	2018-19	2019-20	2020-21
B.Sc. (Hons.) Food Nutrition and Dietetics	Intake	Admitted	Intake	Admitted	Intake	Admitted	Intake	Admitted	Intake	Admitted	2010 17	2017 10	2010 13	2012 20	
	20	16	22	14	22	16	22	13	22	16	12.5	7.1	Nil	23.0*	12.5

* In the academic year 2019-20, 3 out of 13 students dropped the degree programme (Hence, the attrition is 23%).



### 6.4.9 ICT Application in Curricula Delivery 6.4.9.1 ICT facility and learning

SL. No	Laboratory	No.	LAN Connectivity	Wifi Facility	Software in use	Courses Taught	
1.	<ul> <li>✓ Information Technology Laboratory</li> </ul>	18	Yes	Yes	MS-Office ✓ MS-Excel ✓ MS-Word ✓ MS-Access ✓ MS-Power Point ✓ CAD	<ul> <li>✓ Agricultural Informatics for FND and CS Students</li> <li>✓ Information and Communication Technology for CS</li> <li>✓ Computer Aided Interior Designing</li> </ul>	
	✓ Language Laboratory	30				<ul> <li>✓ Data Analysis</li> <li>Using Statistical</li> <li>Packages</li> </ul>	
2	Server Room (01)						

- ✓ College campus has wifi facility
- $\checkmark$  Staff rooms are connected to LAN
- ✓ College Hostel provided Wifi facility 24 X 7
- ✓ LAN is upgraded to 20 Mbps
- ✓ 24 X 7 Power backup for Server room



Information Technology Laboratory





**6.4.10.** The information pertaining to 6.4.1 to 6.4.9 shall be provided for each one of UG, PG and Ph. D Degree Programme, separately, and to be presented college-wise: Yes

**6.4.11.** Sicne the accreditation of Programmes is related to the All India Admission from ICAR and also having weightage for college accreditation, therefore the data presented in the section 6.4 is liable to the verification at any stage.

## 6.4.12. Certificate (Applicable when SSR is submitted for Programme)

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I, the Dean <u>Professor Jyoti V Vastrad</u> hereby certify that the information contained in Section 6.4 and Section 6.4.1 to 6.4.9 are furnished as per the records available in the college and degree awarding university.

Signature of the Dean of the College with Date & Seal College of Community Science Gall, Tura.



# SELF-STUDY REPORT

### Master of Science (Community Science) in Food Science and Nutrition COLLEGE OF COMMUNITY SCIENCE, TURA, MEGHALAYA

**CENTRAL AGRICULTURAL UNIVERSITY** 2016-17 to 2020-21



## SUBMITTED TO NATIONAL AGRICULTURAL EDUCAION ACCREDITATION BOARD, ICAR, NEW DELHI

## **CONTENT**

Sl. No	Particulars
12.	Summary
13.	Brief History of the College
14.	Background of M.Sc. (Community Science) in Food Science and Nutrition
15.	Faculty Strength
16.	Technical and Supporting Staff
17.	Classrooms and Laboratories
18.	Conduct of Practical and Hands-on Training
19.	Supervision of Students in PG/PhD Programme
20.	Feedback of Stakeholders (Students, Parents, Industries, Employers, Farmers
21.	Student intake and attrition in the programme for last five years
22.	ICT Application in Curricula Delivery
23.	Certificate

### Summary

The Self-Study Report of College of Community Science, Sangsanggre, Tura, Meghalaya, encompasses a range of important information pertaining largely to the academic achievements of the college in M.Sc. (Community Science) in Food Science and Nutrition programme over the last five years from the academic session 2016-17 to 2020-21.

The report has been prepared based on the data requested by the Indian Council of Agricultural Research (ICAR) in the pre-drafted proforma required to be furnished by any institute of higher learning in the field of agriculture and allied sciences, that seeks accreditation from the ICAR-National Agricultural Education Accreditation Board (N.A.E.A.B.). The distinctly delineated report commences with a brief history of the college, faculty and staff strength, facilities available, supervision of students, conduct of practical's, feedback proforma's of stockholders, student intake and attrition rate of last five years and ICT application in curricula delivery.

### 6.4 Self study report for the programme

Central Agricultural University (CAU), Imphal was established by an Act of Parliament 1992 No. 40 dated 26th December 1992. In exercise of the powers conferred by CAU Act, the Vice Chancellor of CAU, Imphal issued the first ordinance in 1997 for establishment of College of Home Science in the picturesque state of Meghalaya. With reference to improving the quality of life of people in North Eastern Hill Region, it is imperative to provide training, exposure and awareness through Home Science education to both rural and urban women that shall help to sharpen their knowledge and refine their skills for promotion and thus helping them become better homemakers and income generators for the family.

As a means to this end, the College of Home Science was established in Tura, West Garo Hills under CAU, Imphal, Manipur. The foundation work for starting the college was undertaken by Dr. Rita Singh Raghuvanshi, Officer on Special Duty. Thus, the College of Home Science was started, with a batch of 10 students (from Arunachal Pradesh, Manipur and Meghalaya) on September 24th 2004, in a rented building (Coal India building) at Dakopgre, Tura located in Garo Hills of Meghalaya till August 2009. This town was chosen to establish the College of Home Science because of its exceptional scenic beauty and more importantly, the society is matrilineal in nature, laid the foundations for human empowerment. Since the college is exclusively meant for young girls, the culture and traditions of the region are in harmony with the vision with which the college was established.

# **6.4.1** Brief history of the degree programme for M.Sc. (Community Science) Food Science and Nutrition:

The college, at present, is offering two post-graduate degree programmes in Food and Nutrition, and Extension and Communication Management exclusively for female scholars/students. With the approval of the Academic Council of Central Agricultural University, the first academic session in M.Sc. (Community Science) Food and Nutrition commenced in 2016-17. As per University guidelines, the programme has an intake capacity of three students [2 through University entrance examination + 1 ICAR nominee]. So far, three (3) scholars has successfully completed Post-Graduation in Food Science and Nutrition and currently three (3) students pursuing their M.Sc (Community Science) in Food and Nutrition.

# 6.4.1.1 Timeline of the M.Sc (Community Science) Food and Nutrition degree Programme



### 6.4.2. Faculty Strength

The current sanctioned, filled, and vacant faculty strength are based upon the number recommended as per the ordinance of the college.

SI. No.	Sanctioned Faculty	Faculty in place		Vacant position	Faculty recommended by the ICAR/UGC/VCI/other regulatory bodies
1.	Professor	3**		6	
2.	Associate Professor	3		3	
3.	Assistant Professor	15 (8+4+3)		14(13+1*)	
4.	SMS (KVK)	12		-	NA
Total faculty		33	Total vacancies	23	

** Promoted under CAS ** Vacancy under MTTC & VTC

### 6.4.2.1 Faculty Strength in the Department of Food Science and Nutrition

Sl. No.	Sanctioned Faculty	Faculty in place	Vacant position	Faculty recommended by the ICAR/UGC/VCI/other regulatory bodies
1.	Professor	1*#	2(1+1*)((Advertised )	2
2.	Associate Professor	1	-	4
3.	Assistant Professor	7 (2+5#)	6(Advertised)	8
	Total	9	9	14

*Newly added post *# promoted under CAS

#Guest/MTTC-VTC offer courses of department of Food Science and Nutrition.

There are sufficient number of PG faculty teachers in the Department of Food and Nutrition. For the minor courses offered by the Department of Extension Education and Communication Management, the university has provided provision to appoint adjunct and guest faculty of the related discipline from the other constituent colleges of Central Agricultural University, and other agricultural universities as well. Two guest faculties are appointed in the department.
#### 6.4.2.2 Faculty teaching multiple programmes

SI. No.	Name of the department	No. of faculty teaching multiple degree programmes	Remarks
1.	Extension Education and Communication Management	4	<ul> <li>✓ Teaching master degree programme i.e., M.Sc (Community Science) in Food and Nutrition and M.Sc (Community Science) in Extension Education and Communication Management</li> <li>✓ M.Sc (Community Science) in Extension Education and Communication Management as Minor advisor.</li> </ul>
2.	Basic Science and Humanities	1	✓ Teaching B.Sc (Hons.) Food Nutrition and Dietetics, B.Sc (Hons.) Community Science courses (Principals of Biochemistry, Fundamentals of Food Microbiology, Food Microbiology)
	Total	05	

The number of faculty assigned teaching responsibilities for multiple degree programmes are

#### 6.4.2.3 Deviation in Faculty Strength as per ICAR-FDC recommendation

As the faculty strength and nomenclature and number of departments are based as per the ordinance, the recommendation of the ICAR-Fifth Deans' Committee will be implemented shortly. The faculty position w.r.t. the Fifth Deans' Committee Report recommendation and existing faculty strength is shown below:

Sl. No.	Department faculty strength as per recommendation of V th Deans' Committee	No ree	o. of facu commend	lty led	No. of fa	nculty at j	present		Deviation	
		Prof.	Assoc. Prof	Asst. Prof	Prof.	Assoc. Prof.	Asst. Prof.	Prof.	Assoc. Prof.	Asst. Prof.
1.	Food Science and Nutrition	1	2	4	1*#	1	2+2#	-	1	2
2.	Food Policy and Public Health Nutrition	1	2	4	-	-	-	1	2	4
3.	Apparel Design Management	1	2	4	-	-	-	1	2	4
4.	Textile Science and Design*	1	2	4	-	1	1	1	1	3
5.	Family Resource Management & Consumer Science**	1	2	4	1	1	2		1	
6.	Human Development and Family Studies	1	2	4	-	1	2	1	1	2
7.	Extension and Communication Management	1	2	4	1*#	1	2#	-	2	4
	TOTAL	7	14	28	3*#	4	11	4	10	19

* The current nomenclature is Textile and Apparel Designing ** The current nomenclature is Family Resource Management, #Guest Faculties, *# Promoted under CAS.

#### 6.4.3 Technical and Supporting Staff

The number of sanctioned and appointed Technical and Supporting staff of the college are enlisted below:

Sl. No.	Technical staff /Supporting staff	Sanctioned	In place
16.	Assistant Engineer	1	Nil
17.	Sr. Library Assistant	1	1
18.	Junior Engineer (civil)	1	2 (1+1#)
19.	Field cum Lab. Assistant	11	10
20.	Farm Assistant /Livestock	5	2
21.	Library Assistant	3	3
22.	Electrician	1	1
23.	Plumber	1	1
24.	Carpenter	1	1
25.	Driver	5	1(1 invalid pension)
26.	Supporting Staff (MTS & Handyman)	32	30
27.	Horticulture Assistant	1	1
28.	Female Health Worker	3	3
29.	Compounder cum dresser	1	1
30.	Medical Officer	1	1
	Total	68	58

# Filled against the Assistant Engineer post

Two laboratory assistants are working in the Department for maintaining the laboratories.

### 6.4.4 Classrooms and Laboratories

#### 6.4.4.1 Class rooms in the Department

Sl. No	Particulars	Number	Remarks
1.	Lecture Hall	2	✓ Lecture Halls are equipped with sufficient seating arrangement and White Boards.
2.	Seminar cum Lecture Hall	1	✓ Seminar halls are equipped with screen projectors, a computer with proper power backup.
3.	Conference Hall	1	<ul> <li>One conference hall in the main college building equipped with a computer, a screen projector, proper audio facility and having seat capacity of 50.</li> <li>One more conference hall in Food Science and Nutrition department equipped with a screen projector, LCD TV, audio facility and having seating capacity of 30.</li> </ul>

 $\checkmark$  A total of two lecture rooms are being utilised for the students of both the degree programme

ie., M.Sc (Community Science) in Extension Education and Communication Management and M.Sc (Community Science) in Food and Nutrition.

 $\checkmark$  Smart classroom which is created under NAHEP-IDP are mend to help the students for online classes.

✓ For M.Sc. (Community Science) in Food & Nutrition, four laboratories are available in the deparatment(Listed below) with advnaced equipments and with sufficient seat capacity. Equipmments like Heart rate monitor, Glucometer, Haemometer etc., are also available for clinical nutrition practical.

Sl. No	Department	Name of laboratory	Major equipment
		Food Processing and Product Development Laboratory	<ol> <li>Industrial ovens</li> <li>Dough mixers</li> </ol>
		Catering Management Laboratory	<ol> <li>Sugar grinders</li> <li>Pasta making machine</li> <li>Noodle making machine</li> <li>Dryer</li> <li>Vacuum sealing machine</li> <li>Equipment for the analysis of protein, fat, fibre etc</li> </ol>
1.	Food and Nutrition	Food Analysis Laboratory	<ul><li>9. Colorimeter</li><li>10. Spectrophotometer</li></ul>
		Foods Laboratory	<ol> <li>Texture analyser</li> <li>Water bath</li> <li>Viscometer</li> <li>Muffle furnace</li> <li>Hot air oven</li> <li>Fruit pulper</li> </ol>
		Organoleptic Evaluation Laboratories	<ul><li>17. Baby boiler</li><li>18. Grinding mill</li></ul>

#### 6.4.4.1 Laboratories of the college

### Laboratories and Infrastrcture



Food Processing and Product Development Lab



Food Processing Lab

**Industrial Deck** 



#### 6.4.5. Conduct of Practical and Hands-on Training

All practical classes and experiments are conducted in the existing laboratories of the Department of Food and Nutrition. It is ensured that the laboratory-related research work of the PG students is not hampered, and all support is extended to the students by the college and department.

#### 6.4.5.1 The details of the practical conducted

Core Courses (As per New ICAR BSMA restructured)	Practical Knowledge	Facilities available in the Department
Public Health & Nutrition (FN 502)	<ul> <li>✓ Techniques of assessment of nutritional status</li> <li>✓ Use of Screening tools</li> </ul>	<ul> <li>Digital Weighing Machine</li> <li>Manual Weighing Machine</li> <li>Measuring tape</li> <li>Skin fold calliper</li> <li>Stadiometer</li> <li>Stature Meter</li> <li>Diet-cal Software</li> <li>MUST app</li> </ul>
Techniques in Food Analysis (FN 503)	Nutrient Analysis	<ul> <li>✓ All equipments available to analyze calorie, fat, protein, fiber content of food.</li> <li>✓ Spectrophotometer</li> </ul>

		<ul><li>✓ Texture Analyser</li><li>✓ Hunter Colorimeter</li></ul>
Diet Therapy (FN 504)	Students are acquainted with the diet/menu plan/nutrient intake calculations for different diseased condition for different age group of population	<ul> <li>✓ Food Science Lab is being utilized for the preparation of soft diet, liquid diet, and diet for different diseases, etc.</li> <li>✓ Diet-cal Software</li> </ul>
Nutrition & Physical Fitness (FN 505)	Students will know to study the parameters for physical fitness	<ul> <li>✓ Body Composition analyser</li> <li>✓ Glucometer</li> <li>✓ Haemometer</li> <li>✓ Lipidometer</li> </ul>



Students performing practical in Food Science & Nutrition Laboratory

#### 6.4.6 Supervision of Students in PG/PhD Programme

Candidates who have graduated from ICAR recognized institutions in Community Science/Home Science, and Food Nutrition & Dietetics are eligible to apply for the Master Degree programme in Food and Nutrition. As per University guidelines, the programme has an intake capacity of three students [2 through University entrance examination + 1 ICAR nominee].

After admission to the college, each student is assigned under an Advisory Committee, comprising of a Chairperson or Major Advisor, Major Member belonging to the related discipline, and a member from a Minor discipline. The Major Advisor guides the PG student(s) in academic as well as research activities till the submission of the PG thesis.

6.4.6.1 Intake Capacity for M.Sc (Community Science) in Food and Nutrition

Sl. No	Degree	programn	ıe	Intake C	apacity	Total Intake
	M.Sc	(Comm	unity	<b>CAU Entrance</b>	ICAR	per year
1.	Science) Nutrition	in Food	and	2	1	3

#### 6.4.6.2 Eligible faculty for supervision of students

Sl. No	Eligible Faculty	Designation
1.	Dr. Namita Singh	Professor (Promoted Under CAS)
2.	Dr. Indu	Associate Professor & Head of the Department
3.	Dr. Natasha R Marak	Assistant Professor

#### 6.4.6.3 The details of students supervised since 2016

Year of admission	Name of student & programme enrolled for	Supervisor	Status
July 2016	1. Elvina Shongsir Monsang [FSN]	Dr. Namita Singh	Degree awarded
Oct 2018	<ol> <li>Chungkham Nganthoibi [FSN]</li> <li>Chungkham Chanu Malemnganbi [FSN]</li> </ol>	Dr. Namita Singh	Degree Completed
Sept 2020	1. Fornia K. Sangma [FSN]	Dr. Namita Singh	Thesis work is in progress
Nov 2021	1. Ms. M Priyangka Chanu [FN#] 2. Ms. Yenkokpam Sonia [FN#]	Dr. Namita Singh Dr. Indu	2 nd year M.Sc in progress

#M.Sc. (Community Science) in Food Science and Nutrition Degree programme nomenclature has been changed to Food and Nutrition.

# 6.4.7 Feedback of Stakeholders (Students, Parents, Industries, Employers, Farmers etc.)

-		
	College of Commu CENTRAL AGRICULTU TURA, MEGI	mity Science RAL UNIVERSITY IALAYA
	PROFORMA FOR EVALUATION OF (Semester Evaluation	TEACHER'S PERFORMANCE a by Students)
PartA		
Semester n	H. Sc 2000 Intyean	Academie Session 20.31-2022
Course No	FN 50 9	Course Title Diet There fay
Name of th	e Course Instructor: D3: Bashonti.	Dere
Part B		
1. Ind a. b.	licate whether the Instructor : Provided the course outline and list of refere Topics covered by the teacher :	nce books at the beginning of the semester?(Yes/No)
	Theory	Practical:
	Il. the topic in righters	All the practical portion
с.	Does the teacher use simple language and	clear expression?(Yes/No)
3.6	no, indicate where inprovement is necessary: I. Pronucciation III. Flow of lecturer)	ii. Language and vocabulary iv. Dody language
ct.	Is the teacher giving dictation in all the less if yes, state whether dictation is given for	troportant points only or for the entire lecture :
e. f. g. h. t.	Does the teacher provide handour(s) after le the teacher using audio-visual/ multi- poses the teacher unvite/entertains quite Has the ability to make the lean the teacher Has given due importance to the difficulty	ench lecture?
Part_C a. b. c.	Does the instructor have a pleasing person is the instructor regular and punctual in to Does the instructor give equal attention to	nality and condial behavior?
14	no, does he/she pay more attention to the weak	er students or selected group of students?
	N N	anne of the student
		same of the College . Communicity . Seconces Tet. o

-		C. 11	and the statement
		CENTRAL AGRICULI TURA, MEG	GHALAYA
		PROFORMA FOR EVALUATION ( (Semester Evaluat	of TEACHER'S PERFORMANCE
PartA			
	N	10- Istever orsen	Aundania Sanalan 2021-2022
Course	No :	EN 505	Course Title : Mutukan and Physe
Name	of the t	Contraction Dr. Nomita Se	rah filmers
12			-0
Part B	Ł		
1.	Indic: a. b.	ate whether the Instructor : Provided the course outline and list of refe Topics covered by the teacher :	rence books at the beginning of the semester?(Yes/No
		Theory:	Practical:
	A(	l the topic in myllabus.	All the practical portion
	h	A.S. CO.M. Ath	
	с.	Does the teacher use simple language an	d clear expression?
	If no.	indicate where improvement is necessary:	ii Language and vocabulary
		iii. Flow of lecturer)	iv. Body language
			a and
	d.	Is the teacher giving dictation in all the I If yes, state whether dictation is given for	r important points only or for the entire lecture :
	e.,	Does the teacher provide handout(s) afte	r each lecture?
	£	Is the teacher using audio-visual/ multim	redia?
	g.	Does the teacher invite/entertains question	esting? (Yes/No)
	h.	Has given due importance to the difficul	t/advance topics? (Yes/No)
	6 m.	the second se	anality and cordial behavior?
Part C	28.	boes the instructor nave a piensing perso	taking classes? (Yes/No)
Part C	1.00	is the instruction regular and participation	to all the students? (Yes/No)
Part C	ь.	Dows the instructor give equal attention	
Part C	ь. е.	Does the instructor give equal attention	the state of the s
Part C	ь. c. If no,	does he/she pay more attention to the wea	ker students or selected group of students?
Part (	ь. с. If по,	Does the instructor give equal attention does he/she pay more attention to the wea	ker students or selected group of students?
Part (	ь. e. If no,	Does the instructor give equal attention does he/she pay more attention to the wea	ker students or selected group of students?
Part 4	ь. с. If по,	Does the instructor give equal attention does he/she pay more attention to the wea	Name of the student: Sonia yrrykok para
Part 4	b. c. If no,	Does the instructor give equal attention does he/she pay more attention to the wea	Name of the student : 50x40 getrykok para

## 6.4.8 Student intake and attrition in the programme for last five years (2016-17 to 2020-21)

			Actual Student Admitted in Last Five Years					Attrition (%)							
Name of the degree programme	201	6-17	20	17-18	20	18-19	201	9-20	20	020-21	2016-17	2017-18	2018-19	2019-20	2020-21
M.Sc. (Community Science) Food	Intake	Admitted	Intake	Admitted	Intake	Admitted	Intake	Admitted	Intake	Admitted	2010 17	2017 10	2010 13	2012 20	
Science and Nutrition	3	1	3	-	3	2	3	-	3	1	Nil	Nil	Nil	Nil	Nil



#### 6.4.9 ICT Application in Curricula Delivery

For ease of internet access, Wi-Fi facility is made available in the college. The IT laboratory is used by students and faculty on all working days. It is equipped with 18 computers having 20 mbps internet connectivity. The classrooms also have LCD projectors with interactive smart boards. Recently, the college has set up a Smart Classroom to strengthen the teaching-learning experience. A Language Laboratory, augmented through the ICAR-NAHEP, with 30 new computers having 20 mpbs internet connection has been set up to facilitate various communication skills-related programmes and to fulfil the academic requirements of the students.

SL. No	Laboratory	No.	LAN Connectivity	Wifi Facility	Software in use	Courses Taught
3.	<ul> <li>✓ Information Technology Laboratory</li> </ul>	18	Yes	Yes	MS-Office ✓ MS-Excel ✓ MS-Word ✓ MS-Access ✓ MS-Power Point ✓ CAD ✓ Statistical Software	<ul> <li>✓ Data Analysis Using Statistical Packages</li> </ul>
	✓ Language Laborator y	30				
4.	Server Room (01	)				

#### 6.4.9.1 ICT facility and learning

- ✓ College campus has wifi facility
- Staff rooms are connected to LAN
- ✓ College Hostel provided Wifi facility 24 X 7
- $\checkmark$  LAN is upgraded to 20 Mbps
- ✓ 24 X 7 Power backup for Server room





**Information Technology Laboratory** 



Language Laboratory



**6.4.10.** The information pertaining to 6.4.1 to 6.4.9 shall be provided for each one of UG, PG and Ph. D Degree Programme, separately, and to be presented college-wise: Yes

**6.4.11.** Sicne the accreditation of Programmes is related to the All India Admission from ICAR and also having weightage for college accreditation, therefore the data presented in the section 6.4 is liable to the verification at any stage.

### 6.4.12. Certificate (Applicable when SSR is submitted for Programme)

I, the Dean <u>Professor Jyoti V Vastrad</u> hereby certify that the information contained in Section 6.4 and Section 6.4.1 to 6.4.9 are furnished as per the records available in the college and degree awarding university.

Signature of the Dean of the College with Date & Seal



# SELF-STUDY REPORT

### Master of Science (Community Science) in Extension Education and Communication Management 2017-18 to 2021-22 COLLEGE OF COMMUNITY SCIENCE, TURA MEGHALAYA-794005 CENTRAL AGRICULTURAL UNIVERSITY, IMPHAL



SUBMITTED TO NATIONAL AGRICULTURAL EDUCAION ACCREDITATION BOARD, ICAR, NEW DELHI

## **CONTENT**

SI. No	Particulars					
1.	Summary					
2.	Brief History of the College					
3.	Background of M.Sc. (Community Science) in Extension Education and Communication Management					
4.	· Faculty Strength					
5.	Technical and Supporting Staff					
6.	Classrooms and Laboratories					
7.	Conduct of Practical and Hands-on Training					
8.	Supervision of Students in PG/PhD Programme					
9.	Feedback of Stakeholders (Students, Parents, Industries, Employers, Farmers					
10	) Student intake and attrition in the programme for last five years					
11	ICT Application in Curricula Delivery					
12	Certificate					

#### **Summary**

The Self-Study Report of College of Community Science, Sangsanggre, Tura, Meghalaya, encompasses a range of important information pertaining largely to the academic achievements of the college in its M.Sc. (Community Science) in Extension Education and Communication Management programme over the last five years from the academic session 2017-18 to 2021-22.

The report has been prepared based on the data requested by the Indian Council of Agricultural Research (ICAR) in the pre-drafted proforma required to be furnished by any institute of higher learning in the field of agriculture and allied sciences, that seeks accreditation from the ICAR-National Agricultural Education Accreditation Board (N.A.E.A.B.). The distinctly delineated report commences with a brief history of the college, faculty and staff strength, facilities available, supervision of students, conduct of practical's, feedback proforma's of stockholders, student intake and attrition rate of last five years and ICT application in curricula delivery.

#### 6.4 Self study report for the programme

Central Agricultural University (CAU), Imphal was established by an Act of Parliament 1992 No. 40 dated 26th December 1992. In exercise of the powers conferred by CAU Act, the Vice Chancellor of CAU, Imphal issued the first ordinance in 1997 for establishment of College of Home Science in the picturesque state of Meghalaya. With reference to improving the quality of life of people in North Eastern Hill Region, it is imperative to provide training, exposure and awareness through Home Science education to both rural and urban women that shall help to sharpen their knowledge and refine their skills for promotion and thus helping them become better homemakers and income generators for the family.

As a means to this end, the College of Home Science was established in Tura, West Garo Hills under CAU, Imphal, Manipur. The foundation work for starting the college was undertaken by Dr. Rita Singh Raghuvanshi, Officer on Special Duty. Thus, the College of Home Science was started, with a batch of 10 students (from Arunachal Pradesh, Manipur and Meghalaya) on September 24th 2004, in a rented building (Coal India building) at Dakopgre, Tura located in Garo Hills of Meghalaya till August 2009. This town was chosen to establish the College of Home Science because of its exceptional scenic beauty and more importantly, the society is matrilineal in nature, laid the foundations for human empowerment. Since, the college is exclusively meant for young girls, the culture and traditions of the region are in harmony with the vision with which the college was established.

# 6.4.1 Brief history of the degree M.Sc. (Community Science) in Extension Education and Communication Management

During the period (2015-16) of proposal to start M.Sc. (Extension Education and Communication Management), there were three number of experienced faculties in the department with Ph.D degree, which was the basic requirement to start the PG program. Infrastructural facilities like laboratories, classrooms, ELP classroom, and computers were available. Moreover, students were interested and preferred extension elective during UG programme, which was also another factor to start the PG programme in the department.

The college, at present, is offering two M.Sc. degree programmes in Extension Education and Communication Management and Food and Nutrition exclusively for female scholars/students. With the approval of the 14th Academic Council of Central Agricultural University during 2015-16, the first academic session in M.Sc. (Community Science) Extension Education and Communication Management began in 2017-18. As per University

guidelines, the programme has an intake capacity of three students [2 through University entrance examination + 1 ICAR nominee]. So far, three (3) students have completed their M.Sc. degree in Extension Education and Communication Management and at present three (3) students are pursuing M.Sc. degree.

#### 6.4.1.1 Timeline of the M.Sc (Community Science) in Extension Education and Communication Management degree programme



#### 6.4.2 Faculty Strength

The current sanctioned, filled, and vacant faculty strength are based upon the number recommended as per the ordinance of the college.

SI. No.	Sanctioned Faculty	Faculty in place		Vacant position	Faculty recommended by the ICAR/UGC/VCI/other regulatory bodies
5.	Professor	3**		6	
6.	Associate Professor	3		3	
7.	Assistant Professor	15 (8+4+3)		14(13+1*)	
8.	SMS (KVK)	12		-	NA
	Total faculty	33	Total vacancies	23	

** Three (03) Associate Professor were promoted to the post of Professor through CAS; thus, these three posts are not considered as vacant. Out of three (03), 1(one) is in LIEN.

# 6.4.2.1 Faculty at Department of Extension Education and Communication Management

Sl. No.	Sanctioned Faculty	Faculty in place		Vacant position	Faculty recommended by the ICAR/UGC/VCI/other regulatory bodies
1.	Professor	1*		1(Advertised)	
2.	Associate Professor	1\$		-	
3.	Assistant Professor	2#		2(Advertised)	NA
Total faculty		04	Total vacancies	03	

*-Promoted under CAS, # 1 Guest faculty and Dr. Daya Ram, Assistant Prof, CoA, Imphal, ^sDr. Dipak Nath, DDE, Imphal

At present there is 1 (one) regular faculty member in the Department of Extension Education and Communication Management. Recently one Guest faculty got appointment for the Department of Extension Education and Communication Management. The existing staff strength (including guest faculty) is sufficient to run the programme.

#### 6.4.2.2 Faculty teaching multiple programmes

The number of faculty assigned teaching responsibilities for multiple degree programmes are

SI. No.	Name of the department	No. of faculty teaching multiple degree programmes	Remarks
3.	Food Science and Nutrition	1	<ul> <li>Teaching master degree programme i.e., M.Sc (Community Science) in Food and Nutrition and M.Sc (Community Science) in Extension Education and Communication Management</li> <li>Research guidance to the master degree programme in M.Sc (Community Science) in Food and Nutrition as a minor advisor</li> </ul>
	Total	01	

#### 6.4.2.3 Deviation in Faculty Strength as per ICAR-FDC recommendation

As the faculty strength, nomenclature, and number of departments are based as per the ordinance, the recommendation of the ICAR-Fifth Deans' Committee is yet to be implemented in to. The faculty position w.r.t. the Fifth Deans' Committee Report recommendation and existing faculty strength is shown below:

Sl. No.	Department faculty strength as per recommendation of V th Deans' Committee	No. of faculty recommended			No. of fa	iculty at j	present	Deviation		
		Prof.	Assoc. Prof	Asst. Prof	Prof.	Assoc. Prof.	Asst. Prof.	Prof.	Assoc. Prof.	Asst. Prof.
8.	Food Science and Nutrition	1	2	4	1*#	1	2+2#	-	1	2
9.	Food Policy and Public Health Nutrition	1	2	4	-	-	-	1	2	4
10.	Apparel Design Management	1	2	4	-	-	-	1	2	4
11.	Textile Science and Design*	1	2	4	-	1	1	1	1	3
12.	Family Resource Management & Consumer Science**	1	2	4	1*# LIEN	-	2	-	2	2
13.	Human Development and Family Studies	1	2	4	-	1	2	1	1	2
14.	Extension and Communication Management	1	2	4	1*#	1\$	2#	-	1	2
TOTAL		7	14	28	3*#	4	11	4	10	19

* The current nomenclature is Textile and Apparel Designing ** The current nomenclature is Family Resource Management, #Guest Faculties, *# Promoted under CAS, \$Dr. Dipak Nath, DDE, Imphal

**6.4.3** Technical and Supporting Staff The number of sanctioned and appointed Technical and Supporting staff of the college are enlisted below:

Sl. No.	Technical staff /Supporting staff	Sanctioned	In place
31.	Assistant Engineer	1	Nil
32.	Sr. Library Assistant	1	1
33.	Junior Engineer (civil)	1	2 (1+1#)
34.	Field cum Lab. Assistant	11	10
35.	Farm Assistant /Livestock	5	2
36.	Library Assistant	3	3
37.	Electrician	1	1
38.	Plumber	1	1
39.	Carpenter	1	1
40.	Driver	5	1(1 invalid pension)
41.	Supporting Staff (MTS & Handyman)	32	30
42.	Horticulture Assistant	1	1
43.	Female Health Worker	3	3
44.	Compounder cum dresser	1	1

45.	Medical Officer	1	1
	Total	68	58

# Filled against the Assistant Engineer post

One lab assistant is assigned for maintaining the laboratories and college provides additional supporting during field trip.

# 6.4.4 Classrooms and Laboratories6.4.4.1 Classrooms of the Department

Sl. No	Particulars	Number	Remarks
1.	Lecture Hall	2	✓ Lecture Halls are equipped with sufficient seating arrangement and White Boards.

 $\checkmark$  A total of two lecture rooms are being utilised for the students of both the degree programme

ie., M.Sc (Community Science) in Extension Education and Communication Management and

M.Sc (Community Science) in Food and Nutrition.

✓ Smart classroom which is created under NAHEP-IDP are meant to help the students for online classes.

✓ College has 3 laboratories in the department (Listed below) with advnaced equipments and with sufficient seat capacity to run PG programme.

Sl. No	Department	Name of laboratory	Major equipment
		Multimedia Laboratory	<ol> <li>PA System</li> <li>Audio Mixing Consol</li> <li>DVD Player</li> <li>Projector</li> <li>Computer (3 nos.)</li> </ol>
1.	Extension Education and Communication Management	Photography Laboratory	<ol> <li>Digital camera</li> <li>SLR camera</li> <li>Colour Printer</li> <li>Video camera</li> <li>Over Head Projector</li> <li>Computer (3 nos.)</li> <li>Colour TV</li> <li>Micro Phone</li> </ol>
		Instruction Technology Laboratory	<ol> <li>Drawing table</li> <li>Micro Wave Oven</li> <li>Solar Cooker</li> <li>Sewing Machine</li> <li>Gas Chullah</li> <li>Mixer Grinder</li> </ol>

#### 6.4.4.2 Laboratories of the Department

#### 6.4.5. Conduct of Practical and Hands-on Training

All practical classes and experiments are conducted in the existing laboratories of the Department of Extension Education and Communication Management. It is ensured that the laboratory-related research work of the PG students is not hampered, and all support is extended to the students by the college and department.

#### 6.4.5.1 Practical classes conducted in the Department (for Core Courses)

Core Cours (As per 1 ICAR BS restructu	es New Practical Knowledge SMA red)	Facilities available in the Department
EECM (2+1)	<ul> <li>✓ Knowledge on sustainable Development Goals(SDGS) and analysis</li> <li>✓ Knowledge on National and International Organisation</li> <li>✓ Presentation on different development communication research projects and critical analysis</li> <li>✓ Case study analysis</li> </ul>	<ul> <li>✓ Computer facilities</li> <li>✓ Projectors</li> <li>✓ Smart class room</li> <li>✓ Public address system and podium</li> <li>✓ Syndicate rooms for case study analysis separately for different groups</li> </ul>
EECM (1+2)	<ul> <li>Emerging Technologies in ICT</li> <li>Creation of Blogs</li> <li>Basic Scripts of Web</li> <li>Writing HTML, CSS scripts</li> <li>Applications of MS-office</li> <li>Multimedia presentations</li> <li>Creation of Basic Video Clips with Video Editing software</li> </ul>	<ul> <li>✓ Computers Lab</li> <li>✓ Visual Studio code editing software</li> <li>✓ MS- Office Application programme</li> <li>✓ LAN Facility</li> </ul>
EECM (1+2)	<ul> <li>Knowledge on different technologies developed and transferred under different research projects</li> <li>Preparation of observation schedule</li> <li>Field visits and data collection</li> <li>Exercise on analysis of data and presentation</li> <li>Knowledge on Technology transfer Model</li> <li>Group discussion on refinement of technologies and sustainable issues</li> </ul>	<ul> <li>Research reports</li> <li>Documents on different technologies developed</li> <li>Facilities for print out and photocopy</li> <li>Vehicles for filed visits and data collection</li> <li>Laboratories where the technologies</li> <li>developed</li> <li>Facilities for group discussion and presentation</li> </ul>
EECM (1+2)	<ul> <li>Knowledge on NAAS Rated journals, National and International journals related to different branches of Community Science.</li> <li>Knowledge on scientific writing, thesis writing and writing of review articles</li> <li>Exercise on writing of articles for popular media, magazines and farm journals</li> <li>Orientation for group discussion, interviews</li> <li>Acquire abilities on public speaking</li> </ul>	<ul> <li>✓ Conference room for exercises on public speaking</li> <li>✓ Public address system in the department</li> <li>✓ Audio mixer</li> <li>✓ Rooms for group discussion</li> <li>✓ Small room which can be used as syndicate rooms for preparation and syndicate rooms for preparation</li> <li>✓ Computer facilities</li> <li>✓ Drawing table for preparation of instructional devices</li> </ul>
EECM (1+2)	<ul> <li>Knowledge on observing participatory programme management techniques at group level, block level and district level</li> <li>Application of PRA method</li> <li>Application of different project management techniques like SWOT, PERT and CPM</li> <li>Stake holder analysis in project</li> </ul>	<ul> <li>✓ College vehicle will be used for field practicals at group level, block level and district level</li> <li>✓ Practical exercises on application of PRA methods can be conducted at adopted villages of college</li> <li>✓ For different projects management techniques practical facilities like smart class room can be used</li> <li>✓ Conference room of the college and rooms in the department can be used for group discussion</li> <li>✓ Projectors are available for presentation</li> </ul>

Core Courses (As per New ICAR BSMA restructured)	Practical Knowledge	Facilities available in the Department
EECM 511 (1+1)	<ul> <li>Knowledge on suitable technologies for climate management needs on Apparels and Textiles, Food and Nutrition</li> <li>Climate friendly Domestic appliances</li> <li>Knowledge on suitable technologies for climate management for children, differently able &amp; senior citizens.</li> <li>Climate management needs for general health.</li> <li>Technologies for climate change need at home level.</li> </ul>	<ul> <li>Solar cooker</li> <li>Smoke less Chula.</li> <li>Zero energy cooling chamber.</li> <li>Solar Drier</li> <li>Manual grinder</li> <li>Textile Museum &amp; Laboratories</li> <li>Vermicompost Unit</li> <li>Green House</li> <li>Nutritional Garden</li> <li>Bee keeping unit</li> <li>Mushroom unit</li> <li>Water conservation methods</li> <li>Jalkund</li> <li>Incinerator</li> <li>Different types of Dustbin for dry, wet disposable of medical waste</li> </ul>

# **Infrastructure and Laboratories**



Photography Laboratory



Multimedia Laboratory



Instruction Technology Laboratory



Survey done by the students in villages

#### **Supervision of Students in PG Programme** 6.4.6

Candidates who have graduated from ICAR recognized institutions in Community Science/Home Science, and Food Nutrition & Dietetics are eligible to apply for the Master Degree programme in Extension Education and Communication Management. As per University guidelines, the programme has an intake capacity of three students [2 through University entrance examination + 1 ICAR nominee]. After admission to the college, each student is assigned under an Advisory Committee, comprising of a Chairperson or Major Advisor, Major Member belonging to the related discipline, and a member from a Minor discipline. The Major Advisor guides the PG student(s) in academic as well as research activities till the submission of the PG thesis.

6.4.6.1 Intake	Capacity for	· M.Sc	(Community	Science)	in Extension	Education	and
Communicatio	n Manageme	nt					

Sl. No	Degree prog	gramme	Intake C	Total Intake	
	M.Sc (	Community	<b>CAU Entrance</b>	ICAR	per year
2.	Science) in	Extension			
	Education	and	2	1	3
	Communication				

Management		

#### 6.4.6.2 Eligible faculty for supervision of students

Sl. No	Eligible Faculty	Designation
1.	Dr. Puspita Das	Professor (Promoted Under CAS)

#### 6.4.6.3 The details of students supervised since 2017-18 are given below

Year of admission	Name of student & programme enrolled for	Supervisor	Status
July 2017	<ol> <li>Silkame N. Sangma [ECM]</li> <li>Mikkimchi G. Momin [ECM]</li> </ol>	Dr. Puspita Das	Degree awarded
July 2018	3. Huidrom Bliss [ECM]	Dr. Puspita Das	Degree awarded
Sept 2020	1. Aprilhrin Anal [ECM]	Dr. Puspita Das	Thesis work is in progress.
Dec 2021	1. Ms.DolicaBrahmacharimayum2.Ms. Ch. Kannanbala	Dr. Puspita Das	2 nd Year

# 6.4.7 Feedback of Stakeholders (Students, Parents, Industries, Employers, Farmers etc.)

The UG and PG students provide feedback in a prepared proforma at the end of every semester pertaining to their learning experience, and their perception of the teacher's performance. A proforma is also provided to the alumnae and parents of the students wherein they provide feedback and suggestions to the college. The organizers of training programmes take feedback from farmers/participants after the culmination of each programme.

	College of	Community Science
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	Semester :	Academic Session: 2021. 202
<form></form>	Course No : LL CM 200	Course Title : Outur para Hy
<form></form>	Name of the Course Instructor:	
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<ul> <li>e. Does the teacher use simple language and clear expression? (YesNo)</li> <li>If no, indicate where improvement is necessary: <ul> <li>i. Promunciation</li> <li>ii. Flow of lecturer)</li> <li>ii. Language and vocabulary</li> <li>iv. Body language</li> </ul> </li> <li>d. Is the teacher giving dictation in all the lectures? (YesNo)</li> <li>d. Is the teacher giving dictation is given for important points only or for the entire lectures is and the lectures? (YesNo)</li> <li>d. Is the teacher using audio-visual/ multimedia? (YesNo)</li> <li>d. Be the teacher using audio-visual/ multimedia? (YesNo)</li> <li>g. Does the teacher invite/entertains questions at the end of the lecture? (YesNo)</li> <li>i. Has given due importance to the difficult/advance topics? (YesNo)</li> <li>i. Has given due importance to the difficult/advance topics? (YesNo)</li> <li>b. Is the instructor have a pleasing personality and cordial behavior? (YesNo)</li> <li>c. Does the instructor give equal attention to all the students? (YesNo)</li> <li>i. True, does he/she pay more attention to the weaker students or selected group of students? (Dento)</li> <li>Name of the students: (Lhinge-Mbana, Kananhada, Au 1D, No. CGSSGAU/RSA, 12</li> </ul>	College of Co CENTRAL AGRICU TURA, M PROFORMA FOR EVALUATION (Somester Evalu Part A Semester :	name of the Subert :
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#### College of Community Science CENTRAL AGRICULTURAL UNIVERSITY TURA, MEGHALAYA

#### PROFORMA FOR EVALUATION OF TEACHER'S PERFORMANCE (Semester Evaluation by Students)

rart A	<u>A</u>		
Semes	ster :	<u>1</u>	Academic Session: A Section And Academic Session:
Cours	se No :	EECM 502	Course Title : De Velopment Communice
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Part l	B		
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	a.	Provided the course outline and list of reference b	ooks at the beginning of the semester (Tesrto)
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		NAQONUA. LANG	
		· Transiterrouter a line a such thereare	
	c.	Does the teacher use simple language and clear	expression?(Yes/No)
	If no	, indicate where improvement is necessary:	
		i. Pronunciation ii.	Language and vocabulary
		iii. Flow of lecturer) iv.	Body language
	4	Is the teacher giving dictation in all the lectures	?
	a.	If yes, state whether dictation is given for impor	rtant points only or for the entire lecture :
	e	Does the teacher provide handout(s) after each l	lecture? (Yes/No)
	f.	Is the teacher using audio-visual/ multimedia? .	(Yes/No)
	g.	Does the teacher invite/entertains questions at the	he end of the lecture? (Yes/No)
	h.	Has the ability to make the lecturer interesting?	
	i.	Has given due importance to the difficult/advan	ce topics? (Yes/No)
Part	С		~
	a.	Does the instructor have a pleasing personality	and cordial behavior? (Yes/No)
	b.	Is the instructor regular and punctual in taking c	classes? (Yes/No)
	c.	Does the instructor give equal attention to all th	e students? (Yes/No)
		I have been prove attention to the weaker stur	lents or selected group of students?
	If no.	, does he/she pay more attention to the weaker stud	Tens of science group of students :
			Seattle
		Name o	of the student : Dalie B.
		I.D. No	CCS CAUPER-09
		I.D. No	the College College of Comments
		Name o	Tura Mahalana

6.4.8. <b>S</b>	Student intake and attrition in the	programme for last five years	(2017-18 to 2021-22)
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		Actual Student Admitted in Last Five Years							Attrition (%)						
Name of the degree programme	201	17-18	20	18-19	20	19-20	202	20-21	2	021-22	2016-17	2017-18	2018-19	2019-20	2020-21
M.Sc. (Community Science)	Intake	Admitted	Intake	Admitted	Intake	Admitted	Intake	Admitted	Intake	Admitted	2010-17	2017-10	2010-17	2017-20	
Extension Education and Communication Management	3	2	3	1	3	-	3	1	3	2	Nil	Nil	Nil	Nil	Nil

#### 6.4.9. ICT Application in Curricula Delivery

For ease of internet access, Wi-Fi facility is made available in the college. Students and faculty use the IT laboratory on all working days. It is equipped with 18 computers having 20 mbps internet connectivity. The classrooms also have LCD projectors with interactive smart boards. Recently, the college has set up a Smart Classroom to strengthen the teaching-learning experience. A Language Laboratory, augmented through the ICAR-NAHEP, with 30 new computers having 20 mpbs internet connection has been set up to facilitate various communication skills-related programmes and to fulfil the academic requirements of the students.

SL. No	Laboratory	No.	LAN Connectivity	Wifi Facility	Software in use	Courses Taught
5.	<ul> <li>✓ Information Technology Laboratory</li> </ul>	18	Yes	Yes	MS-Office ✓ MS-Excel ✓ MS-Word ✓ MS-Access ✓ MS-Power Point ✓ CAD ✓ Statistical Software	<ul> <li>✓ Data Analysis Using Statistical Packages</li> </ul>
	✓ Language Laborator y	30				
6.	Server Room (01	)				

#### 6.4.9.1 ICT facility and learning

- ✓ College campus has wifi facility
- ✓ Staff rooms are connected to LAN
- ✓ College Hostel provided Wifi facility 24 X 7
- ✓ LAN is upgraded to 20 Mbps
- ✓ 24 X 7 Power backup for Server room

# **ICT Infrastructure**



Information Technology Laboratory



Language Laboratory





Server Room

nformatior

Internet Hub

Core Courses (As per New ICAR BSMA restructured)	Practical Knowledge
EECM 502 (2+1) EECM 503 (1+2) EECM 504 (1+2) EECM 505 (1+2)	<ul> <li>✓ Analysis of Contemporary Media for development of communication issues</li> <li>✓ Emerging Technologies in ICT</li> <li>✓ Creation of Basic Video Clips with Video Editing software</li> <li>✓ Creation of Blogs</li> <li>✓ Writing HTML, CSS scripts</li> <li>✓ Report writing</li> <li>✓ Applications of MS-office</li> <li>✓ Multimedia presentations</li> </ul>



**6.4.10.** The information pertaining to 6.4.1 to 6.4.9 shall be provided for each one of UG, PG and Ph. D Degree Programme, separately, and to be presented college-wise: Yes

**6.4.11**. Sicne the accreditation of Programmes is related to the All India Admission from ICAR and also having weightage for college accreditation, therefore the data presented in the section 6.4 is liable to the verification at any stage.

#### 6.4.12. Certificate (Applicable when SSR is submitted for Programme)

I, the Dean <u>Professor Jyoti V. Vastrad</u> hereby certify that the information contained in Section 6.4 and Section 6.4.1 to 6.4.9 are furnished as per the records available in the college and degree awarding university.

atted 15/10/22.

Signature of the Dean of the College with Date & Seal

College of Community Science College of Community Science