OFFICE OF THE REGISTRAR ACHARYANARENDRA DEVA UNIVERSITY OF AGRICULTURE & TECHNOLOGY KUMARGANJ, AYODHYA

No. ANDUAT-02/315th A.C./2024/2740

Dated: 13.01.2025

To,

All Deans/Directors, ANDUAT, Kumarganj, Ayodhya

Sir/Madam,

Kindly find enclosed herewith the proceedings of 315th meeting of the Academic Council held on 13.01.2025 in the Hi-Tech Hall of the University Guest House for your kind perusal and necessary action.

The proceedings contain a large number of pages so it is requested to kindly inform the all HODs of your college to download the proceeding which has been uploaded on the University Website.

Encl: As above

Yours faithfully

(P.S. Pramanik)
Registrar

No. ANDUAT-02/315th A.C./2024/

Dated: x

Copy forwarded to the following for information and necessary action please.

- 1. SVC for kind information of Hon'ble Vice-Chancellor.
- 2. Director, Administration and Monitoring.
- HOD, Department of Agriculture Statistics for uploading the proceeding on university website.

(P.S. Pramanik) Registrar Proceedings of the 315th meeting of the Academic Council held on 13.01.2025 at11.00 AM in the Hi-tech Hall of the University Guest House.

The followings were present:

S.No	Name	Designation	Chairman/Member
1.	Dr. Bijendra Singh	Vice-Chancellor	Chairman
2.	Dr. Ram Batuk Singh	Director Extension	Member
3.	Dr. Naveen Chandra Shahi	Dean, MCAET	Member
4.	Dr. Sanjay Pathak	Dean, College of Hort. & Forestry	Member
5.	Dr. Sadhna Singh	Dean, College of Comm. Science	Member
6.	Dr. D.K. Singh	Assoc. Dean, College of Azamgarh	Member
7.	Dr. D. Niyogi	DSW/Prof. Vety. Pathology	Member
8.	Dr. C.P. Singh	Dean/Prof., Fish. Resource Management	Member
9.	En. Ram Jeet Singh	HOD, FM&PE	Member
10.	Dr. S.C. Vimal	Prof. & Head, GPB/BOFA, Secretary	Member
11.	Dr. Susheel Kumar Singh	Prof.& Head, Plant Pathology	Member
12.	Dr. A. K. Singh	DAM/Prof.& Head, Crop Physiology	Member
13.	Dr. Sita Ram Mishra	Prof. & Head, Agro-Meteorology	Member
14.	Dr. Anil Kumar Gangwar	Prof. & Head, Vety. Surgery	Member
15.	Dr. ShushantSrivastava	Prof. & Head, VGO	Member
16.	Dr. Subodh Kumar	Prof. & Head, T.L.F.	Member
17.	Dr. Chandra Shekhar	Prof.& Head, VPE	Member
18.	Dr. Vijay Kumar Singh	Prof. & Head, ANN	Member
19.	Dr. SonuJaiswal	Prof. & Head, Vety. Clinical Complex	Member
20.	Dr. Amit Singh	Prof. & Head, Parasitology	Member
21.	Dr. Bhagwan Deen	Prof.& Head, Post Harvest	Member
22.	Dr. S.P. Singh	Prof. & Head (LFC) Vet. & A.H.	Member
23.	Dr. BhanuPratap	Prof. & Head, CHF	Member
24.	Dr. V.K. Singh	HOD, Engg. College	Member
25.	Dr. J.P. Singh	HOD, Vety. Science	Member
26.	Dr.S.V. Singh	HOD, Vety. Science	Member
27.	Dr. S.K. Maurya	HOD, Vety. Science	Member
28.	Dr. S.K. Verma	Head, Agro Forestry	Member
29.	Dr. S.K. Verma	Head, Floriculture & Landscaping	Member
30.	Dr. Umesh Chandra	Prof. & Head, Entomology	Member
31.	Dr. Suresh Kumar	Prof.,& Head Soil Science	Member
32.	Dr. Neeraj Kumar	Prof. & Head, Agronomy	Member
33.	Dr. N.A. Khan	Prof. & Head, Biotechnology	Member
34.	Dr. P.S. Parmanik	Registrar/Dean, Vety. Sci. & A.H.	Member/ Secretary

The Registrar/Secretary, Academic Council welcomed the Hon'ble Vice-Chancellor, Dr.Bijendra Singh and existing & new members of the Academic Council. The proceedings of the meeting began with the permission of the Hon'ble Vice-Chancellor.

The following decisions were taken:

315:1828 To confirm the minutes of the 314th meeting of the Academic Council held on 21.10.2024.

The proceedings of 314th meeting of the Academic Council held on 21.10.2024 was confirmed.

315:1829 To consider and approve the Academic Calendar of all colleges (except B.V.Sc.& A.H. and lst year of all degree programmes) for the 2nd Semester, and M.V.Sc. IInd year, lst semester, Session 2024-25.

The academic calendar of all colleges (except B.V.Sc.& A.H. and Ist year of all degree programmes) for the 2nd Semester, and M.V.Sc. IInd year, Ist semester, Session 2024-25 had been issued vide notice no. ANDUAT-02/Acad.C./2024/2637 dated 26.12.2024 in anticipation of approval of AC. The agenda was placed for consideration and approval of Academic Council. The Academic Council approved the agenda with suggestion to issue semester break notice for U.G. after ending of final examination.

315:1830 To consider and approve the Academic Calendar of College of Veterinary Science & Animal Husbandry of B.V.Sc.& A.H. Vth year (2020 batch) Session, 2024-25.

The academic calendar of College of Veterinary Science & Animal Husbandry of B.V.Sc.& A.H. Vth year (2020 batch) Session, 2024-25 was issued vide notice no. 403/ANDUAT-53/1/Academic Section./2024 dated 09.11.2024 in anticipation of approval of AC. The Academic Council approved the agenda as such.

315:1831 To consider and approve the model paper & format as per guidelines of Sixth Deans Committee Report of all colleges except Vety. College submitted by the committee constituted by Hon. Vice Chancellor.

The Academic Council thoroughly discussed on model paper & format. Members of Academic Council suggested that objective and subjective questions be prepared in such a manner so that answers will be delivered in maximum four sheets and extra copy will not be given to examinees. Also suggested to identify the slow learners of the class for his/her extra motivation. The format approved as such and guidelines for model paper is as under:

Points to be discussed during the Committee meeting for making a format for examinations of different degree courses of ANDUAT following VIth Deans' Committee

- For courses having both theory and practical components, the external theory examination will be of 40 marks. This will include 40% of objective-type questions and 60% of subjective-type questions. Accordingly, the objective-type questions will be of 16 marks and subjective type questions will be of 24 marks.
- The objective-type questions will include True/False questions (part A) and multiple-choice questions (part B) of 8 marks each. Each of the objective question carry 1.0 mark. The student will have 12 choices each for part A and part B.
- 3. The subjective-type questions will include 07 long answer type questions from which the student has to attend only 4 questions. Each of the subjective-type question carry 06 marks. One of the subjective type questions will be of writing short notes and have four subdivisions (a, b, c. and d) of 02 marks each from which the student has to attend any three.

B

4. For courses having theory component only, the external theory examination will be of 50 marks. This will include 40% of objective-type questions and 60% of subjective-type questions. Accordingly, the objective-type questions will be of 20 marks and subjective type questions will be of 30 marks. The objective-type questions will include True/False questions (part A) and multiple-choice questions (part B) of 10 marks each. Each of the objective question carry 1.0 mark. The student will have 15 choices both for part A and part B. The subjective-type questions will include 07 long answer type questions from which the student has to attend only 4 questions. Each of the subjective-type question carry 7.5 marks. One of the subjective type questions will be of writing short notes and have four subdivisions (a, b, c. and d) of 2.5 marks each from which the student has to attend any three.

5. The total duration of an end-term (theory) examination will be 2 hours and 30 minutes. The student will have to

complete the objective-type questions within the first30 minutes.

6. The proportion of objective and subjective type questions in mid-term (theory) examinations should be kept 40% and 60% respectively. The pattern of questions can be decided by the instructor of each course, depends on the

7. The practical examination questions should include marks for writing principle and/procedure of an experiment, practical experiment, practical record and/assignment, and viva-voce. The pattern of examination can be decided by the course instructor in due consultation with the faculty nominated by the HoD of the concerned department.

8. Each quiz examination will carry 10 marks. Assessment of the students through quizzes should focus on their critical thinking and creativity rather than rote reading. The pattern of examination can be decided by the course

instructor.

To consider and approve the proposal of Dean Hort. & Forestry to revise minor & supporting subjects for PG & Ph.D. (Hort. Fruit Science) degree 315:1832 programmes as per ICAR BSMA (2021).

The proposal of Dean Hort. & Forestry for revision of minor & supporting subjects for PG & Ph.D. (Hort. Fruit Science) degree programmes as per ICAR BSMA (2021) was placed for consideration and approval of Academic Council. The agenda approved with suggestion as Biochemistry course be mandatory included as minor subject for PG & Ph.D. student.

To consider and approve the rules for Ph.D. study leave to in-service issued 315:1833 by U.P. Gazettee dated 29 March, 2005.

The proposal for eligibility of a teacher as per rules for Ph.D. study leave issued by U.P. Gazettee dated 29 March, 2005 was placed for consideration and approval of Academic Council. The Academic Council thoroughly discussed the matter for allowing the study leave to in-service candidate with the suggestion as:

For ongoing in-service candidate;

Complete all the course work including comprehensive examination within four semester. In-service candidate will be joining in their services after completion of comprehensive examination and research work will be carried out with their regular services.

For new in-service candidates;

Their course work including comprehensive examination within 03 semester and rejoin their service in fourth semester and further continue their research work with regular service.

In-service candidate will not be allowed to guide PG students till completion of degree programme. Also suggested for MoU with Pantnagar, Meerut and Mathura universities.

To consider and approve the proposals for implementation of course 315:1834 curricula submitted by all Deans as per guidelines of Sixth Deans Committee Report of ICAR.

The proposal for implementation of course curricula submitted by all Deans (except Vety. College) as per guidelines of Sixth Deans Committee Report was placed for consideration and approval of Academic Council. Hon. Vice Chancellor has directed to Registrar to hold a meeting with all Deans for similarity of course code of each colleges and be incorporated in proceedings. Course code may be in three digit except in Forestry. The details of course code of concerned colleges are given below:

College of Agriculture

B.Sc. (Hons) Agriculture

Semester wise course and credits Allocation

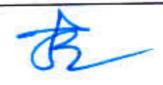
S. No.	Course Code	Course Title	Credit Hours	Total credit hours
First yea	ır			
I Semest	er			
1.	AFC-111	Deeksharambh (Induction cum Foundation course)	2 weeks (NG) Non-gradial	
2.	ASE-111	Biofertilizer and biopesticide production*	2(0+2)	
3.	APS-112	Mushroom production technology*	2(0+2)	
4.	AAE-111	Communication Skills	2(1+1)	
5.	AAM-112	Farming based livelihood systems	3(2+1)	
6.	AEE-112	Rural Sociology and Educational Psychology	2 (2+0)	
7.	AAG-111	Fundamentals of Agronomy	3(2+1)	
8.	ASS-111	Fundamentals of Soil Science	3(2+1)	
9.	AHC-111	Fundamentals of Horticulture	3(2+1)	
10.	NPA-111	National Service Scheme/National Cadet Corps	1(0+1)	
11.	AST-111	Introductory mathematics (need based)	1(1+0) Non-gradial	21(11+10)
II Seme	ster			
1.	ASC-121	Seed Production Technology*	2(0+2)	
2.	AHE-122	Post harvest processing technology*	2(0+2)	
3.	AAE-121	Personality Development	2(1+1)	
4.	AMV-121	Environmental Studies and Disaster Management	3(2+1)	
5.	ASS-121	Soil Fertility Management	3(2+1)	
6.	AET-121	Fundamentals of Entomology	3(2+1)	
7.	ALM-121	Livestock and Poultry Management	2(1+1)	



8.	APP-121	Fundamentals of Plant Pathology	3(2+1)	
9.	NPA-121	National Service Scheme/National Cadet Corps	1(0+1)	21(10+11)
Second \	Year			
III Seme	ester			
1.	AET-211	Beneficial insect farming*	2(0+2)	
2.	AEM-211	Entrepreneurship Development and Business Communication	3 (2+1)	
3.	NPA-211	Physical Education, First Aid, Yoga Practices and Meditation	2(0+2)	
4.	AGP-211	Principles of Genetics	3(2+1)	
5.	AAG-211	Crop Production Technology-I (Kharif crops)	3(1+2)	
6.	AHC-211	Production Technology of Fruit and Plantation Crops	2 (1+1)	
7.	AEE-211	Fundamentals of Extension Education	2(1+1)	
8.	APP- 211	Fundamentals of Nematology	2(1+1)	
9.	AAG-212	Principles and Practices of Natural Farming	2(1+1)	21(9+12)
IV Sem	ester			- V
1.	AHS-221	Horticulture nursery management*	2(0+2)	
2.	ASTV- 221	Agricultural Informatics and Artificial Intelligence	3(2+1)	
3.	AHC-221	Production Technology of Vegetables and Spices	2(1+1)	
4.	AAE-221	Principles of Agricultural Economics and Farm Management	2(2+0)	
5.	AAG-221	Crop Production Technology-II (Rabi Crops)	3(1+2)	
6.	AEN-221	Farm Machinery and Power	2 (1+1)	
7.	AAG-222	Water Management	2 (1+1)	
8.	ASS- 221	Problematic Soils and their management	2(1+1)	
9.	AGP-221	Basics of Plant Breeding	3(2+1)	21(11+10



Semest	ter			
1.	AEM-311	Agricultural Marketing and Trade	3 (2+1)	- 1
2.	AAM-311	Introduction to Agro-meteorology	2(1+1)	
3.	APH-311	Fundamentals of Crop Physiology	3(2+1)	-
J.		THE STREET PRODUCTION OF THE STREET OF THE S	- W	
4.	AET-311	Pest management in Crops and Stored Grains	3 (2+1)	
5.	APP-311	Diseases of Field & Horticultural Crops & their Management	3(2+1)	
6.	AGP-311	Crop Improvement (kharif crops) - I	2 (1+1)	
7.	AAG-311	Weed Management	2(1+1)	
8.	AHC-311	Ornamental Crops, MAPs and Landscaping	2 (1+1)	
9.	AFR-311	Introductory Agro forestry	2 (1+1)	
10.	ATN-311	Study Tour	2 (0+2)	22(13+9)
			Non gradial	
I Seme	ster			
1.	ABT-321	Fundamentals of Agri Biotechnology	3(2+1)	
2.	AST-321	Basic and Applied Agril Statistics	3(2+1)	
3.	AGP-321	Crop Improvement (Rabi crops) - II	2(1+1)	
4.	AEN-321	Renewable energy in Agriculture and Allied Sector	2(1+1)	
5.	AAG-321	Dryland agriculture/Rainfed agriculture and watershed management	2(1+1)	
6.	APP-321	Agricultural Microbiology and Phyto- remediation	2(1+1)	
7.	AAE-321	Agricultural Finance & Cooperation	2(1+1)	
8.	ABC-321	Essentials of Plant Biochemistry	3 (2+1)	
9.	ASC-321	Fundamentals of Seed Science & Technology	2(1+1)	21(12+9
'au wt h	Year			



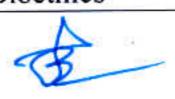
	e Courses (m ire degree	ajor or minor) each of 4 (3+1) credits for	B.Sc. (Hons)	20(15+5)
1.	ABM-411	Agri-Business Management	4 (3+1)	
2.	AAG-411	Management of natural resources	4 (3+1)	
3.	AAG-412	Agrochemicals	4 (3+1)	
4.	AEE-411	Agricultural Journalism	4 (3+1)	
5.	AHC-411	Landscaping	4 (3+1)	
6.	AGP-411	Commercial Plant breeding	4 (3+1)	
7.	AFN-411	Food safety and standards	4 (3+1)	
8.	ABT-411	Bioformulation and Nano formulation	4 (3+1)	
9.	AET-411	Biopesticides and Biofertilizers	4 (3+1)	
10.	AAM-411	System Simulation and Agro advisory	4 (3+1)	20*(15+5
11.	AHC-412	Hi-tech Horticulture	4 (3+1)	5* Elective
12.	AHC-413	Protected cultivation	4 (3+1)	Courses
13.	AAM-412	Climate Resilient Agriculture	4 (3+1)	
14.	ABT- 412	Biotechnology of Crop Improvement	4 (3+1)	
15.	AAM-413	Geoinformatics and Remote Sensing, precision farming	4 (3+1)	
16.	ABT-413	Micro-propagation Technologies	4 (3+1)	
17.	ASC-411	Commercial Seed Production	4 (3+1)	
18.	AAG- 413	Principles and Practices of Organic Farming/ Conservation Agriculture	4 (3+1)	
19.	AFN-412	Food Science and Nutrition	4 (3+1)	
20.	AHC-414	Post-Harvest Technology and Value Addition	4 (3+1)	
II Sen	nester			
21.	For B.Sc. (Hons)Agriculture Degree		
		EADY: RAWE/ Industrial Attachment /Ing/ Project Work / Internship	Experiential Learn	ning / Hands-
I.	RAWE -	RAWE	10 (0+10)	
2.	ELP-411	Experiential Learning	10 (0+10)	20(0+20

B.Tech. (Biotechnology) Four-Year B. Tech. Biotechnology Semester-Wise Course Distribution

SI. No.	Course Code	Course Title	Credit Hours	Total Credit hours
		First Year		***************************************
		Semester I		
1.	BNG-	Deeksharambh (Foundation Course)	2 (0+2) NG	
	111		Non-gradial	
2.	BMB-	Molecular Biology	3 (3+0)	21 (14+7)+
3.	BCB-	Introductory Cell Biology	3 (3+0)	NG/or 23
4.	BFG-113	Fundamentals of Genetics	3 (3+0)	(16+7)+
5.	BBM- 111/ BBB- 112/ BBZ-113	Basic Mathematics/Basic Botany/Basic Zoology	2 (2+0)	NG
6.	BFL-111	Farming Based Livelihood Systems	3 (2+1)	1
7.	BNC- 111/ BNS-112	National Cadet Corps I/ National Service Scheme I	1 (0+1)	
8.	BCS-113	Communication Skills	2 (1+1)	1
9.	BPP- 111/BPA -112	SEC 1: Practices in Plant Tissue Culture*/ Practices in Animal Cell Culture**	2 (0+2)	
10.	BLM- 113	SEC 2: Laboratory Management and Instrumentation	2 (0+2)	
		Semester II	<u> </u>	
1.	BIB-121	Introduction to Biotechnology	3 (3+0)	21
2.	BIP-122	Introduction to Plant Breeding	3 (2+1)	(11+10)
3.	BEM- 123	Elementary Microbiology	2 (1+1)	
4.	BED- 121	Entrepreneurship Development and Business Management	3 (2+1)	
5.	BES-121	Environmental Studies and Disaster Management	3 (2+1)	
6.	BNC- 121/ BNS-122	National Cadet Corps II*/ National Service Scheme II**	1 (0+1)	
7.	BPD-123	Personality Development	2 (1+1)	1
8.	BBT-121	SEC 3: Basic Techniques of Molecular Biology and Biotechnology	2 (0+2)	
9.	BBB- 122	SEC 4: Bioinformatics and Biocomputation	2 (0+2)	
		Second Year	1	A = 15
	0	Semester III		
1.	BLP-211	Livestock Production and Management	3 (2+1)	20
2.	BRD-	Recombinant DNA Technology	2 (2+0)	(12+8)



3.	BCM- 213	Classical and Molecular Cytogenetics	3 (2+1)	
4.	BPP- 211/ BAP- 212/	Plant Physiology*/Anatomy and Physiology of Livestock**	3 (2+1)	
5.	BFC- 213/ BLP-214	Fundamentals of Crop Protection*/ Livestock Product Technology**	3 (2+1)	
6.	BBM- 215	Biomathematics	2 (2+0)	
7.	BPE-211	Physical Education, First Aid and Yoga Practice	2 (0+2)	
8.	BMR- 211	SEC 5: Methods in Recombinant DNA Technology	2 (0+2)	
		Semester IV		
1.	BIB-221	Introductory Bioinformatics	4 (3+1)	21
2.	BMM- 221	Molecular Marker Technology	2 (2+0)	(15+6)
3.	BBC- 221	Biodiversity and Its Conservation	2 (2+0)	
4.	BBB- 221	Basic Biochemistry	4 (3+1)	
5.	BMI-221	Human Ethics	1 (1+0)	
6.	BAM- 221	Agriculture Marketing and Trade	3 (2+1)	
7.	BAI-221	Agriculture Informatics and Artificial Intelligence	3 (2+1)	
8.	BPM- 221	SEC 6: Practices in Molecular Marker Technology	2 (0+2)	
	*	Third Year		
	.,	Semester V		
1.	BMG- 311	Microbial Genetics	4 (3+1)	23 (18+5)+2
2.	BMG- 312	Molecular Genetics	3(3+0)	(Non- gradial)
3.	BNB- 313	Nanobiotechnology	4 (3+1)	
4.	BAB- 314	Animal Biotechnology	3 (2+1)	
5.	BGP-315	Genomics and Proteomics	3 (3+0)	
6.	BEE-311	Enzymology and Enzyme Technologies	3 (2+1)	
7.	BIM-312	Immunology	3 (2+1)	
8.	BET-311	Educational Tour	2 (0+2) NG	
		Semester VI		
1.	BMD- 321	Molecular Diagnostics	3 (2+1)	20 (15+5)
		Industrial Diotechnology	3 (3+0)	(15+5)
2.	BIB-322	Industrial Biotechnology	3 (3.0)	
2.	BIB-322 BEG- 323	Epigenetics and Gene Regulation	2 (2+0)	



5.	BCM- 321	Computational Biology	3 (2+1)	
6.	BIB-322	Introduction to Animal Breeding	3 (2+1)	
7.	BBS-323	Biostatistics	2 (1+1)	
8.	BFS-324	Food Science and Processing	3 (2+1)	
0.	DI S SZ I			
		Fourth Year		
		Semester VII		
	I	Elective I. Plant Biotechnology		
1.	BPB-411	Applications of Genomics and Proteomics	4 (3+1)	20 (14+6)
2.	BPB-412	Principles of Molecular Breeding	4 (3+1)	
3.	BPB-413	Principles and Procedures of Plant	3 (2+1)	
٠.	D. D. 1.12	Tissue Culture		
4.	BPB-414	Molecular Breeding in Field and	3 (2+1)	
4.	DI D-TIT	Horticultural Crops	200 COV	
=	BPB-415	Seed Biology, Biotechnology,	3 (2+1)	
5.	BPB-413	Production and Management	2 (2 1)	
	DDD 416	Plant Genetic Transformation	3 (2+1)	
6.	BPB-416	The Control of the Co	3 (211)	
		lective II. Animal Biotechnology	4 (2±1)	20
1.	BAB-	Principles and Procedures of Animal	4 (3+1)	(15+5)
	411	Cell Culture	4 (2 1)	— (15±3)
2.	BAB-	Animal Genomics	4 (3+1)	
	412		2 (2 : 0)	
3.	BAB-	Transgenic Animal Production	3 (3+0)	
	413			
4.	BAB-	Molecular Virology and Vaccine	3 (2+1)	
	414	Production		
5.	BAB-	Embryo Transfer Technologies	3 (2+1)	
125.000	415			
6.	BAB-	Animal Reproductive Biotechnology	3 (2+1)	7
٠.	416	•		
		III. Microbial and Environmental		
	Biotechn			
1.	BME-	Fundamentals of Molecular Pharming	4 (3+1)	20
16.0	411	and Biopharmaceuticals	8 8	(16+4)
2.	BME-	Microbial Biotechnology	4 (3+1)	
4.	412	Whereblar Broteenheregy	8	
2	BME-	Bioprospecting of Genes and Molecules	3 (3+0)	
3.	413	Dioprospecting of Genes and Merces	Section 2	
1		Molecular Ecology and Evolution	3 (3+0)	
4.	BME-	Molecular Ecology and Evolution	. ()	
	414	Food Distachnology	3 (2+1)	
5.	BME-	Food Biotechnology	3 (2.1)	1
	415	C. Di 4 di salami	3 (2+1)	_
6.	BME-	Green Biotechnology	3 (211)	1
	416			
		Elective IV. Bioinformatics	4 (2) 2)	20
1.	BBI-411	Programming in Bioinformatics	4 (2+2)	20
2.	BBI-412	Bioinformatics Tools and Biological	3 (2+1)	(13+7)
	-	Databases		
	DDI 412	Structural Bioinformatics	3 (2+1)	
3.	BBI-413	Structural Diolifformation	3 (2+1)	7.1

5.	BBI-415	Metabolomics and Systems Biology	4 (3+1)	
6.	BBI-416	Computational Methods for Data Analysis	3 (2+1)	
		Semester VIII		
1.	BSR-421	Student READY RAWE/industry attachment/experiential learning/ hands- on training/project work/internship) in the areas of Plant Biotechnology, Animal Biotechnology, Microbial and Environmental BiotechnologyandBioinformatics	20 (0+20)	20 (0+20)
	Online Co	ourse during third and fourth year	Yu.	
	The second secon	Online Courses	10 (0+10)	10 (0+10)

College of Horticulture & Forestry

B.Sc. (Hons) Horticulture

rst	¥7	Semest	1
	Year:	Semesi	er-

Course No.	Course Name	CreditHours
HFC-111	Deeksharambh(InductioncumFoundationCourse)	2(0+2)NG Non-gradial
HFS-111	FundamentalsofHorticulture	3(2+1)
HFS-112	PlantPropagationandNurseryManagementofFruitand Plantationcrops	3(1+2)
HFLS-111	CommercialproductionofFlowercrops	3(1+2)
HMD-111	FarmingBasedLivelihoodSystems	3(2+1)
HFS-113	SprinklerandMicroirrigation systems	2(1+1)
HAE-111	CommunicationSkills	2(1+1)
HSE-111	MushroomCultivation (SEC-I)*	2(0+2)
HSE-112	Apiculture (SEC-I)*	2(0+2)
HSE-113	OrchardFloorManagement (SEC-I)*	2(0+2)
HSE-114	LandscapeGardening (SEC-I)*	2(0+2)
NAE-112	NCC-I/NSS-I	1(0+1)
	Total	25 (8+17) + 2 (Non-gradial)

*Note: Student can choose any two courses from the offered SEC-I

Ist Year: Semester-II

Course No.	Course Name	CreditHours
HAGR-121	IntroductiontoMajorFieldcrops	3(2+1)
HVS-121	CommercialProductionofSpicesandPlantationcrops	3(2+1)
HVS-122	Plant Propagation and Nursery Management in Vegetables, Flowers and Medicinal crops	3(1+2)

HAE-121	PersonalityDevelopment	2(1+1)
HMD-121	EntrepreneurshipDevelopmentandBusinessManagement	3(2+1)
HVA-121	EnvironmentalStudiesandDisasterManagement	3(2+1)
HSE-121	PackingandPackagingofHorticulturalCrops (SEC-II)*	2(0+2)
HSE-122	FarmMachinery (SEC-II)*	2(0+2)
HSE-123	IntroductiontoForestry (SEC-II)*	2(0+2)
HSE-124	Installation,OperationandMaintenanceofMicro-irrigationSystem (SEC-II)*	2(0+2)
NAE-121	NCC-II/NSS-II	1(0+1)
	Total	26(10+16)
Post-IISemest	er	
HINT-121 Internship(for10weeks-onlyforexitoptionforawardofUG- Certificate) 10(10(0+10)

*Note: Student can choose any two courses from the offered SEC-II

Course No.	Course Name	CreditHours
HSS-211	FundamentalsofSoilScience	3(2+1)
HFS-211	CommercialFruit Production	4(3+1)
HVS-211	PrecisionFarmingandProtectedCultivation	3(2+1)
HVS-212	SeedProductionofVegetable,TuberandSpicecrops	3(2+1)
HPP-211	DiseaseManagementofHorticulturecrops	3(2+1)
HAE-211	PhysicalEducation,FirstAid,YogaPracticesandMeditation	2(0+2)
HSE-211	ComputerProgrammingandData Structures (SEC-III)*	2(0+2)
HSE-212	TurfandTurfManagement (SEC-III)*	2(0+2)
HSE-213	Post-HarvestManagementofHorticulturalProduce (SEC-III)*	2(0+2)
	Total	24(11+13)

*Note: Student can choose any one course from the offered SEC-II

Course Name	CreditHours
CommercialVegetableProduction	4(3+1)
FarmPowerandMachineryforHorticulture	3(2+1)
AgriculturalInformaticsandArtificialIntelligence	3(2+1)
UrbanandPeriUrbanHorticulture	2(1+1)
AgricultureMarketingandTrade	3(2+1)
PestManagementofHorticulturecrops	3(2+1)
	Course Name Commercial Vegetable Production Farm Power and Machinery for Horticulture Agricultural Informatics and Artificial Intelligence Urbanand Peri Urban Horticulture Agriculture Marketing and Trade

Introductory Agrometeorology and Climate Change	HAGM-221
Nursery Production in Horticulture crops (SEC-IV)*	HSE-221
Seed Production techniques in Vegetable crops (SEC-IV	HSE-222
Sericulture (SEC-IV)*	HSE-223
Post-IV semester	
Internship (for 10 weeks-only for exit option for award	HINT-221
Internship (for 10 weeks-only for exit option for award	HINT-221
	Nursery Production in Horticulture crops (SEC-IV)* Seed Production techniques in Vegetable crops (SEC-IV) Sericulture (SEC-IV)* Post-IV semester

*Note: Student can choose any one course from the offered SEC-IV

IIInd Year: Seme	ester-	I
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Course No.	Course Name	Credit Hours
HGPB-311	Fundamentals of Plant Breeding	3 (2+1)
HFS-311	Growth and Development of Horticultural crops	3 (2+1)
HSS-311	Soil Fertility and Nutrient Management	3 (2+1)
HSS-312	General Microbiology	3 (2+1)
HAST-311	Information and Communication Technology in Horticulture	3 (1+2)
HCP-311	Introductory Crop Physiology	2 (1+1)
HSTAT-312	Basic Statistics and Experimental Designs	3 (2+1)
HFC-311	Education Tour	2 (0+2) Non- gradial
	Total	20 (12+8) + 2 (Non gradial)

IIInd Year: Semester-II

Course Name	Credit Hours
Introductory Agroforestry	3 (2+1)
Laboratory Techniques for Horticultural crops	2 (0+2)
Principles of Biochemistry	3 (2+1)
Dryland Horticulture	3 (2+1)
Economics and Marketing	3 (2+1)
Principles and Practices of Natural Farming	2 (1+1)
Horticulture Based Integrated Farming System	3 (2+1)
Processing and Value Addition of Horticulture crops	3 (2+1)
Introductory Agroforestry	3 (2+1)
Laboratory Techniques for Horticultural crops	2 (0+2)
	Introductory Agroforestry Laboratory Techniques for Horticultural crops Principles of Biochemistry Dryland Horticulture Economics and Marketing Principles and Practices of Natural Farming Horticulture Based Integrated Farming System Processing and Value Addition of Horticulture crops Introductory Agroforestry



HBCH-321	PrinciplesofBiochemistry	3(2+1)
	Total	22(13+9)
Year: Semester	-1	
Course No.	Course Name	CreditHours
ElectiveCourses be taken	-Studentswilloptoneoftheelectivedisciplineandaccordingly the courses offere	d by University may
Fruit Science HFS-411	Production TechnologyofTropicalFruitcrops	3(2+1)
HFS-412	ProductionTechnologyofSubtropicalandtemperateFruitcrops	3(2+1)
HFS-413	BreedingofFruit crops	3(2+1)
HFS-414	CanopyManagementinFruitcrops	3(2+1)
HFS-415	BiotechnologicalApproachesandMicropropagationinFruitcrops	3(2+1)
HFS-416	ProductionTechnologyofAridFruitcrops	3(2+1)
HFS-417	Postharvest Management for Fruit crops	2 (1+1)
	Total	20
VegetableScience	ce	
HVS-411	ProductionTechnologyofWarmSeasonVegetablecrops	3(2+1)
HVS-412	ProductionTechnologyofCoolSeasonVegetablecrops	3(2+1)
HVS-413	ProductionTechnologyofTubercrops	3(2+1)
HVS-414	BreedingofVegetablecrops	3(2+1)
HVS-415	BiotechnologicalapproachesandMicropropagationinVegetable crops	3(2+1)
HVS-416	PostharvestManagementofVegetablecrops	3(2+1)
HVS-417	ProtectedcultivationofVegetablecrops	2(1+1)
	Total	20
Floricultureand	Landscaping	
HFLS-411	TurfManagement	2(1+1)
HFLS-412	ProtectedCultivation ofFlowercrops	3(2+1)
HFLS-413	ValueAdditioninFloriculture	3(2+1)
HFLS-414	BreedingofOrnamentalcrops	3(2+1)
HFLS-415	PrinciplesofLandscapeArchitecture	3(2+1)
HFLS-416	CommercialFloricultureandLandscaping	3(2+1)
HFLS-417	PostharvesthandlingofFloriculturecrops	3(2+1)
	Total	20

B

IVnd Year: Semester-II

CourseTitle	CreditHours
StudentReady(RAWE/IndustrialAttachment/Projectwork/ Internship)	20(0+20)
Total	20
TOTAL	80+87+4#
Grandtotal	167+4#
	StudentReady(RAWE/IndustrialAttachment/Projectwork/ Internship) Total TOTAL

B.Sc. (Hons) Forestry
Course Curriculum of B.Sc. (Hons.) (Forestry) Degree Programme as per
ICAR Sixth Dean Committee

Course Code	Course Title	Credit hours
ACT ACTION	First year	
	Semester I	
FOFC-111	Deeksharambh(Induction-cum-Foundation Program)	2 (0+2)
		(Non gradial)
FORM-111	Introduction to Forest Resources	3 (2+1)
FOBT-111	Forest Plant Biology	3 (2+1)
FOSA-111	Silviculture – Principles and Practices	3 (2+1)
FOSA-112	Agroforestry Systems and Management	3 (2+1)
*FOSE-111	Commercial Seedling Production (SEC-I)	2 (0+2)
*FOSE-112	Ecotourism (SEC- I)	2 (0+2)
*FOSE-113	Forest Machine Learning Technology (SEC- I)	2 (0+2)
*FOSE-114	Commercial Forestry (SEC- I)	2 (0+2)
*FOSE-115	Landscape Management and Restoration (SEC- I)	2 (0+2)
*FOSE-116	Wildlife Photography (SEC- I)	2 (0+2)
*FOSE-117	Para-taxonomy (SEC- I)	2 (0+2)
*FOSL-118	Ornithology (SEC- I)	2 (0+2)
*FOSE-119	Herpetology (SEC-1)	2 (0+2)
FOMD-111	Farming Based Livelihood Systems	3 (2+1)
NAE-111	NCC-I/ NSS-I	1 (0+1)
NAE-112	Communication Skills	2 (1+1)
14.501 0.74 2.01 140-90	Total Credit	22(11+11)
		(+2NG)
	Semester II	104.0
FOBT-121	Tree Seed and Nursery Technology	3 (1+2)
FOBT-122	Fundamental of Forest Genetics	2 (1+1)
FOPU-121	Wood Anatomy and Identification	2 (1+1)
FORM-121	Forest Measurements and Inventory	3 (2+1)
*FOSE-121	Clonal Seedling Production (SEC-II)	2 (0+2)
*FOSE-122	Forest Based Industrial Training (SEC-II)	2 (0+2)
*FOSE-123	Urban Forestry Designing and Planning (SEC-II)	2 (0+2)
*FOSE-124	Wood Working and Carpentry (SEC-II)	2 (0+2)
*FOSL-125	Wood Seasoning and Preservation Technology (SEC-II)	2 (0+2)
I()SE-126	Zoo Management (SEC-II)	2 (0+2)
*FOSE-127	Wild and Commercial Beekeeping (SEC-II)	2 (0+2)
*FOSE-128	Advanced Wood Working (SEC-II)	2 (0+2)
*FOSE-129	Lac and Tassar Cultivation (SEC-II)	2 (0+2)
FOVA-121	Environmental Studies and Disaster Management	3 (2+1)
NAE-121	Personality Development	2 (1+1)
NAH-122	NCC-II/NSS-II	1 (0+1)
FOMD-121	Entrepreneurship Development and Business Development	3 (2+1)
1 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total Credit	23 (10+13)
	Post – II Semester	
FO1N-121	**Internship (for 10 weeks) - only for exit option for award of UG- Certificate	10 (0+10)
	Total credit including Internship	23 (10+13) + [10 (0+10)**



	Second Year Semester III	
)SA-211	Silviculture of Trees	2 (2+0)
3PU 211	Wood Science and Technology	2 (1+1)
як х 1-211	Forest Microbiology	2 (1+1)
3RNI-212	Forest Soil and Nutrient Management	2 (1+1)
0.0001-213	Forest survey and Engineering	2 (1+1)
5W L-244	Wildlife Sciences	3 (2+1) 2 (1+1)
ORAI-214	Polest Health and Polection	2(1+1)
G5A-212	Arboriculture	2 (0+2)
211	Multifunctional Agroforestry (SEC-III) Timber Conversion (SEC-III)	2 (0+2)
(OSE-212 (OSE-213	Value Addition of NTFPs (SEC-III)	2 (0+2)
FUSI -214	Briquetting Technology (SEC-III)	2 (0+2)
(a)S1 -215	Forest Fire Management (SEC-III)	2 (0+2)
()51-216	Activated Carbon Technology (SEC-III)	2 (0+2)
1081-217	Micro Forest (SEC-III)	2 (0+2)
1081-218	Community Forest (SEC-III)	2 (0+2) 2 (0+2)
1-(151-219	Biofuels Technology through Forestry (SEC-III)	2(1+1)
W 11	Physical Education, First Aid, Yoga practices and Meditation	21 (11+10)
	Total Credit Semester IV	
(7111-221	Commercial Forest Products and Utilization	3 (2+1)
OKNI-221	Forest Ecology and Management	3 (2+1)
	Tree Harvesting and Ergonomics	2 (1+1)
() '(-222	Forest Policy and Legislation	2 (2+0)
CRNI-222	Statistical Methods	2 (1+1)
US -221	Speciality Seedling Production (SEC-IV)	2 (0+2)
1/181-221	Speciality Seeding Floduction (SEC-IV)	2 (0+2)
14 181 -222	Artificial Intelligence in Forestry Operation (SEC-IV)	2 (0+2)
1 (38) -223	Woodlot Establishment and Management (SEC-IV)	2 (0+2)
11081-224	Application of Drone in Forestry (SEC-IV)	2 (0+2)
*F->SI -225	Forest Certification (SEC-IV)	2 (0+2)
1/051-226	Arboriculture (SEC-IV)	2 (0+2)
1(1) \$1 -227	Mulberry and Non-mulberry based Silk Production (SEC-IV)	2 (0+2)
*1()81-228	Marketing and Economics of NTFPs (SEC-IV)	2 (0+2)
*[+)\$[-229	Carbon Financing Projects (SEC-IV)	3 (2+1)
F(5)(1)-221	Agricultural Marketing and Trade	
FOX X-221	Agricultural Informatics and Artificial Intelligence	3 (2+1)
	Total Credit	20(12+8)
	Post – IV Semester	10 (0 : 10)
FOUN-221	***Internship (for 10 weeks) - only for exit option for award of UG- Diploma	10 (0+10)
	Total credit including Internship	20(12+8) + [10(0+10)***]
	Third Year	
- V	Semester V	
1 (014) - 311	Tree Physiology	2 (1+1)
1-08\-311	Plantation Forestry	3 (2+1)
1 (15 1-312	Tree Improvement	3 (2+1)
FORM-311	Forest Resource Management	2 (1+1)
1301/1-311	Non-Timber Forest Products	3 (2+1)
	Forest Pest and Diseases	3 (2+1)
FURE 1-112	Wildlife and Protected Area Management	3 (2+1)
FOWL-311	Approximate Specific Control of the	2 (1+1)
F(15A-312	Industrial Agroforestry	2 (0+2) Non-
11) [3:-311	Study tour	Gradial 21 (13+8)+2N
	Total Credit	21 (1370)721

Forest Bio	Semester VI technology	3 (2+1)
		2 (1+1)
The same of the sa		2 (1+1)
		3 (2+1)
27-1-67-1-1705 SAFAN		2 (1+1)
		2 (1+1)
		2 (2+0)
	mass Energy and Biofuels	2 (1+1)
		2 (2+0)
Total Cre	SAME DE PERSONAL DE LA COMPANION DE LA COMPANI	20 (13+7)
Total Cre	Fourth Year	
	Semester VII	
Elective (Courses	
****Plan	tation Forestry	20
Commerc	ial Tree Seedling Production	3 (1+2)
	ial Plantation Development and Management	3 (2+1)
	owth Modelling	2 (1+1)
The second of th	g and Certification of Wood Products	2 (1+1)
	on of Degraded Lands	3 (2+1)
7. Dec. (1985) 4. 1885 4. 1885 4. 1885 4. 1885 4. 1885 4. 1885 4. 1885 4. 1885 4. 1885 4. 1885 4. 1885 4. 1885	iomass and Energy Plantations	3 (2+1)
	and Climate Change Mitigation	2 (2+0)
12.3 MINES (1500) (1500)	chemistry	2 (1+1)
THE PERSON NAMED IN COLUMN	Methodology	2 (1+1)
	Packages for Data Analysis	1 (0+1)
The state of the s	with Forest Plantations-based Institutions/plantation	2 (0+2)
100	RE ALLEGATE DE CERTATE CONSTRUCTOR DE CONTRACTOR DE LA CO	_ (* _)
companie	tifunctional Agroforestry	20
1)22/200		3 (2+1)
	stry system	2 (1+1)
	ons in Agroforestry Systems	2 (2+0)
200 PM 100 PM 10	stry and Climate Change Mitigation	3 (2+1)
	agroforestry	3 (2+1)
Ecotouris		3 (2+1)
	biomass and energy plantation	And Committee of the
Dendro-b	tion to Agronomy and Crop Production Technology	3 (2+1)
Dendro-b Introduct		2/11/1
Dendro-b Introduct	ochemistry	2 (1+1)
Dendro-b Introduct Plant Bio Research	ochemistry Methodology	2 (1+1)
Dendro-b Introduct Plant Bio Research Statistica	ochemistry Methodology Il Packages for Data Analysis	2 (1+1) 1 (0+1)
Dendro-b Introduct Plant Bio Research Statistica Agrofore	Methodology Il Packages for Data Analysis estry Business Incubation	2 (1+1) 1 (0+1) 2(1+1)
Dendro-b Introduct Plant Bio Research Statistica Agrofore Internshi	Methodology I Packages for Data Analysis estry Business Incubation p with agroforestry-based institutions/industries	2 (1+1) 1 (0+1) 2(1+1) 2 (0+2)
Dendro-b Introduct Plant Bio Research Statistica Agrofore Internshi	Methodology Il Packages for Data Analysis estry Business Incubation	2 (1+1) 1 (0+1) 2(1+1) 2 (0+2) 20
Dendro-b Introduct Plant Bio Research Statistica Agrofore Internshi ****Hig	Methodology I Packages for Data Analysis estry Business Incubation p with agroforestry-based institutions/industries	2 (1+1) 1 (0+1) 2(1+1) 2 (0+2) 20 3 (2+1)
Dendro-b Introduct Plant Bio Research Statistica Agrofore Internshi ****Hig Applied	Methodology I Packages for Data Analysis estry Business Incubation p with agroforestry-based institutions/industries ph Yielding Short Rotation Forestry Tree Improvement	2 (1+1) 1 (0+1) 2(1+1) 2 (0+2) 20 3 (2+1) 3 (2+1)
Dendro-b Introduct Plant Bio Research Statistica Agrofore Internshi ****Hig Applied Reprodu	Methodology I Packages for Data Analysis Estry Business Incubation Ip with agroforestry-based institutions/industries Incubation Forestry Tree Improvement Incubation Forestry Incubation	2 (1+1) 1 (0+1) 2(1+1) 2 (0+2) 20 3 (2+1) 3 (2+1) 2 (1+1)
Dendro-b Introduct Plant Bio Research Statistica Agrofore Internshi ****Hig Applied Reprodu Biometri	Methodology I Packages for Data Analysis Estry Business Incubation Ip with agroforestry-based institutions/industries Incubation Forestry Tree Improvement Incubation Forestry Incubation	2 (1+1) 1 (0+1) 2(1+1) 2 (0+2) 20 3 (2+1) 3 (2+1) 2 (1+1)
Dendro-b Introduct Plant Bio Research Statistica Agrofore Internshi ****Hig Applied Reprodu Biometri Tissue C	Methodology I Packages for Data Analysis Estry Business Incubation Ip with agroforestry-based institutions/industries In Yielding Short Rotation Forestry Tree Improvement I ction Biology of Tree Crops I cal Genetics in Tree Breeding Culture Application in Forestry	2 (1+1) 1 (0+1) 2(1+1) 2 (0+2) 20 3 (2+1) 3 (2+1) 2 (1+1) 3 (1+2)
Dendro-b Introduct Plant Bio Research Statistica Agrofore Internshi ****Hig Applied Reprodu Biometri Tissue C Controll	Methodology al Packages for Data Analysis estry Business Incubation p with agroforestry-based institutions/industries th Yielding Short Rotation Forestry Tree Improvement ction Biology of Tree Crops ical Genetics in Tree Breeding culture Application in Forestry ed Breeding in Tree Crops	2 (1+1) 1 (0+1) 2(1+1) 2 (0+2) 20 3 (2+1) 3 (2+1) 2 (1+1) 3 (1+2) 2 (0+2)
Dendro-b Introduct Plant Bio Research Statistica Agrofore Internshi ****Hig Applied Reprodu Biometri Tissue C Controll Tree See	Methodology al Packages for Data Analysis estry Business Incubation p with agroforestry-based institutions/industries th Yielding Short Rotation Forestry Tree Improvement ction Biology of Tree Crops ical Genetics in Tree Breeding culture Application in Forestry ed Breeding in Tree Crops ed Orchards	2 (1+1) 1 (0+1) 2(1+1) 2 (0+2) 20 3 (2+1) 3 (2+1) 2 (1+1) 3 (1+2) 2 (0+2) 3 (2+1)
Dendro-b Introduct Plant Bio Research Statistica Agrofore Internshi ****Hig Applied Reprodu Biometri Tissue C Controll Tree See Forest G	Methodology al Packages for Data Analysis estry Business Incubation p with agroforestry-based institutions/industries th Yielding Short Rotation Forestry Tree Improvement ction Biology of Tree Crops ical Genetics in Tree Breeding culture Application in Forestry ed Breeding in Tree Crops ed Orchards fenetic Resources	2 (1+1) 1 (0+1) 2(1+1) 2 (0+2) 20 3 (2+1) 3 (2+1) 2 (1+1) 3 (1+2) 2 (0+2) 3 (2+1) 2 (2+0)
Dendro-b Introduct Plant Bio Research Statistica Agrofore Internshi ****Hig Applied Reprodu Biometri Tissue C Controll Tree See Forest C Clonal F	Methodology al Packages for Data Analysis estry Business Incubation p with agroforestry-based institutions/industries th Yielding Short Rotation Forestry Tree Improvement ction Biology of Tree Crops ical Genetics in Tree Breeding culture Application in Forestry ed Breeding in Tree Crops ed Orchards Genetic Resources Forestry	2 (1+1) 1 (0+1) 2(1+1) 2 (0+2) 20 3 (2+1) 3 (2+1) 2 (1+1) 3 (1+2) 2 (0+2) 3 (2+1) 2 (2+0) 2 (1+1)
Dendro-b Introduct Plant Bio Research Statistica Agrofore Internshi ****Hig Applied Reprodu Biometri Tissue C Controll Tree See Forest C Clonal F Plant Bi	Methodology al Packages for Data Analysis estry Business Incubation p with agroforestry-based institutions/industries th Yielding Short Rotation Forestry Tree Improvement ction Biology of Tree Crops ical Genetics in Tree Breeding Culture Application in Forestry ed Breeding in Tree Crops ed Orchards Genetic Resources Forestry ochemistry	2 (1+1) 1 (0+1) 2(1+1) 2 (0+2) 20 3 (2+1) 3 (2+1) 2 (1+1) 3 (1+2) 2 (0+2) 3 (2+1) 2 (2+0) 2 (1+1) 2 (1+1)
Dendro-b Introduct Plant Bio Research Statistica Agrofore Internshi ****Hig Applied Reprodu Biometri Tissue C Controll Tree See Forest C Clonal F Plant Bi Research	Methodology Al Packages for Data Analysis Estry Business Incubation In with agroforestry-based institutions/industries In Yielding Short Rotation Forestry Tree Improvement In Cition Biology of Tree Crops In Genetics in Tree Breeding Inculture Application in Forestry In the Breeding in Tree Crops In the	2 (1+1) 1 (0+1) 2(1+1) 2 (0+2) 20 3 (2+1) 3 (2+1) 2 (1+1) 3 (1+2) 2 (0+2) 3 (2+1) 2 (2+0) 2 (1+1) 2 (1+1) 2 (1+1)
Dendro-b Introduct Plant Bio Research Statistica Agrofore Internshi ****Hig Applied Reprodu Biometri Tissue C Controll Tree See Forest C Clonal F Plant Bi Research	Methodology al Packages for Data Analysis estry Business Incubation p with agroforestry-based institutions/industries th Yielding Short Rotation Forestry Tree Improvement ction Biology of Tree Crops fical Genetics in Tree Breeding Culture Application in Forestry ed Breeding in Tree Crops ed Orchards fienetic Resources Forestry ochemistry h Methodology al Packages for Data Analysis	2 (1+1) 1 (0+1) 2 (1+1) 2 (0+2) 20 3 (2+1) 3 (2+1) 2 (1+1) 3 (1+2) 2 (0+2) 3 (2+1) 2 (2+0) 2 (1+1) 2 (1+1) 2 (1+1) 1 (0+1)

	****Wood and NWFPs Product Development and Utilization	20
Fot 411	Wood Identification	2 (0+2)
1()1-112	Wood Physics and Chemistry	3 (2+1)
FOL 113	Forest Products Laboratory Techniques	2 (0+2)
100-414	Wood Seasoning and Preservation	3 (1+2)
F()14-115	Composite Wood Technology	3 (2+1)
FOR 54 16	Non-wood Forest Products and Value Addition Technology	3 (2+1)
FOUL-117	Ethnobotany, Medicinal and Aromatic Plants	3 (2+1)
EUL-418	Certification of Wood Products	2 (2+0)
10003-411	Plant Biochemistry	2 (1+1)
F(){1-119	Research Methodology	2 (1+1)
Feit!S-III	Statistical Packages for Data Analysis	1 (0+1)
EOL 1-111	Internship with Forest Products and Technology-based Institutions/industries	2 (0+2)
	****Forest Resources Management and Utilization	20
FUR-411	RS and GIS Applications for Forest Resource Management	3 (2+1)
FoR D2	Ecosystem Services and Valuation of Forest Resources	3 (2+1)
F.04: 113	Entrepreneurship in value chain improvement of forest Resources	3 (2+1)
EUR-114	Joint Forest Planning and Management	2 (1+1)
FOR-415	Climate Change Mitigation	3 (2+1)
FOR-416	Ecotourism	3 (2+1)
F(3R-117	Restoration of Degraded Lands	3 (2+1)
10:12-418	Urban Ecology and Environment	3 (2+1)
FORB-411	Plant Biochemistry	2 (1+1)
FOR- 119	Research Methodology	2 (1+1)
L1048-411	Statistical Packages for Data Analysis	1 (0+1)
F())E1-[1]	Internship with Forest Business Unit/RS-GIS Company or Organization	2 (0+2)
	Semester VIII	
ECISR-421	Internship/Project/Students Ready Program	20 (0+20)
	Total Credit	20 (0+20)
	On-line courses (MOOC)	10
	Total Course Credit	167+10(MOOC)+4NG

*Students can encose any two courses from the offered SEC-I and SEC-II and one course from the offered SEC-III and SEC-IV ****Students and take 20 credits from any one elective courses

College of Fisheries

YEAR AND SEMESTER WISE COURSES DISTRIBUTION OF B.F.Sc. (Hons.) Ist Vent: Semester-I

l. 	Course Code	Course Title	Credit hour
1.	FFD-111	Deeksharambh (Induction-cum-Foundation course of 2 weeks)	2(0+2)#NG
2.	FRC-111	Taxonomy of Commercially Important Fish and Shellfish	4 (2+2)
alla	FAEC-	Soil and Water Chemistry	3 (2+1)
-1,	FAC-111	Freshwater Aquaculture	2 (1+1)
5.	FHC-111	Fundamental Microbiology	2 (1+1)



6.	FAEC- 112	Meteorology and Geography	2 (1+1)
7.	FMD-111	Farming Based Livelihood Systems	3 (2+1)
8.	NAE-111	Communication Skills	2 (1+1)
9.	NAE-112	NCC-I/NSS-I	1 (0+1)
10.	FSE-111	Fish/Shellfish Breeding and Hatchery Operation*	2 (0+2)
11.	FSE-112	Fish/Shellfish Seed Rearing*	2 (0+2)

^{*}NG Non Gradial course.

* Courses opt from SEC

Ist Year: Semester-II

0.	Course Code	Course Title	Credit hour
			5 5
1.	FAC-121	Fish and Shellfish Breeding and Hatchery Management	4 (3+1)
2.	FRC-121	Anatomy and Biology of Finfish and Shellfish	4 (3+1)
3.	FRC-123	Physiology of Finfish and Shellfish	3 (2+1)
l.	FAEC- 121	Limnology	2 (1+1)
5,	FMD-121	Entrepreneurship Development and Business Management	3 (2+1)
у,	FVA-121	Environmental Studies and Disaster Management	3 (2+1)
7.	NAE-121	Personality Development	2 (1+1)
S.c	NAE-122	NCC-II/NSS-II	1 (0+1)
),	FSE-121	Fish/Shellfish Grow-out Production Management *	2 (0+2)
(0.	FSE-122	Breeding and Culture of Ornamental Fish *	2 (0+2)
Post	Semester-II	(only for exit option for award of UG- Certificate)	
ļ	FIN-121	Internship (for 10 weeks)	10** (0+10)

^{*} Courses opt from SEC

IInd Year: Semester-I

SL No.	Code Code	Course Title	Credit hour
I.	FAC-211	Coastal Aquaculture and Mariculture	3 (2+1)
2.	FAC-212	Fish Nutrition and Feed Technology	3 (2+1)
3.	FRC-211	Inland Fisheries	2 (1+1)



4.	FEC-211	Fishing Craft Technology	2 (1+1)
5.	FPC-211	Fundamentals of Biochemistry and Food Chemistry	2 (1+1)
6.	FPC-212	Post-Harvest Handling and Preservation	3 (2+1)
7.	FESC- 211	Fisheries Extension	2 (1+1)
8.	NAE-211	Physical Education, First Aid, Yoga Practice and Meditation	2 (0+2)
9.	FSE-211	Start-up and Incubation in Fisheries *	2 (0+2)

* Courses opt from SEC II nd Year: Semester-II

il. No.	Course Code	Course Title	Credit hour
L.	FAC-221	Breeding and Culture of Ornamental Fish	2 (1+1)
2.	FAC-222	Live Food Organisms for Fish and Shellfish	2 (1+1)
3.	FHC-221	Fish and Shellfish Diseases and Treatment	3 (2+1)
4.	FRC-221	Marine Fisheries	2 (1+1)
5.	FEC-221	Fishing and Gear Technology	3 (2+1)
6.	FPC-221	Fish Products, By-products, Value Addition and Waste Management	3 (2+1)
7.	FMD-221	Agriculture Marketing and Trade	3 (2+1)
8.	FVA-221	Agricultural Informatics and Artificial Intelligence	3 (2+1)
9.	FSE-221	Non-conventional/Diversified Farming Practices (Pearl Farming/Seaweed Farming/Aquaponics/Microalgae Production, etc.)*	2 (0+2)
	Post Se	emester IV (Only for exit option for award of UG -Diploma)	
1.	FIN-221	Internship (for 10 weeks)	10*** (0+10

* Courses opt from SEC III rd Year: Semester-I

Sl. No.	Course Code	Course Title	Credit hour
1.	FAC-311	Fish Genetics and Breeding	2 (1+1)
2.	FAEC-311	Marine Biology	2 (1+1)
3.	FRC-311	Fish Population Dynamics and Stock Assessment	2 (1+1)
4.	FAEC-312	Aquatic Ecology and Biodiversity	2 (1+1)

5.	EHC-311	Pharmacology and Toxicology	4 (3+1)
6.	FPC-311	Fish Freezing Technology	2 (1+1)
Ÿ.,	FPC-312	Fish Canning Technology and Packaging	2 (1+1)
S.	FEC-311	Aquaculture Engineering	3 (2+1)
9.	FESC-	Statistical Methods	3 (2+1)
10.	FFT-311	Education Tour (2 Weeks)	2(0+2) NG

IIIrd Year: Semester-II

Sl. No.	Course Code	Course Title	Credit hour
1.	FAC-321	Fish Biotechnology and Bioinformatics	2 (1+1)
2.	FHC-321	Fish Immunology	2 (1+1)
3,	FHC-322	Therapeutics in Aquaculture	2 (1+1)
4.	FAEC- 321	Coastal Zone Management	2 (1+1)
5.	FPC-321	Microbiology of Fish and Fisheries Products	2 (1+1)
G.	FEC-321	Refrigeration and Equipment Engineering	2 (1+1)
7.	FEC-322	Navigation and Seamanship	2 (1+1)
5.	FESC- 321	Fisheries Economics	3 (2+1)
9.	FESC- 322	Fisheries Policy and Laws	1 (1+0)
10,	FESC- 323	Fisheries Co-operative and Marketing	2 (1+1)

Sl. No.	Course Title	Credit hour
1.	Elective Courses (Major)#	12
2.	Elective Courses (Minor)##	8

Elective (major/minor) courses

S. No.	Course Code	Course Title	Credit Hours
Major (Courses (Stud	ents have the option to choose any Four Major (Courses - 12 credits)

2.	FAE-412	Smart Aquaculture Production Systems	3 (2+1)
3.	FHE-411	Fish and Shellfish Pathology	3 (2+1)
l,	FHE-412	Disease Diagnostic Techniques	3 (2+1)
5.	FRE-411	Sustainable Fisheries Management and Conservation	3 (2+1)
Ši.	FAEE- 411	Aquatic Pollution	3 (2+1)
7.	FACE-	Fishery Oceanography	3 (2+1)
8.	FAEE- 413	Analytical Techniques in Aquatic Environmental Studies	3 (2+1)
	FPE-411	Quality Assurance of Fish and Fishery Products	3 (2+1)
).	L.L. 1	Quality Assurance of Fish and Fishery Froducts	
	4000 400	ents have the option to choose any Four Minor Courses - 8 cr	edits)
inor	4000 400		edits)
inor I.	Courses (Stude	ents have the option to choose any Four Minor Courses - 8 cr	
inor 1. 2.	FAE-412	ents have the option to choose any Four Minor Courses - 8 cr Coldwater Aquaculture and Recreational Fisheries	2 (1+1)
1101°	FAE-412 FAEE-414 FAEE-	ents have the option to choose any Four Minor Courses - 8 cr Coldwater Aquaculture and Recreational Fisheries Aquatic Microbiology	2 (1+1)
inor 1. 2. 3.	FAE-412 FAEE-414 FAEE-415	Coldwater Aquaculture and Recreational Fisheries Aquatic Microbiology Climate Change and its Impact on Fisheries	2 (1+1) 2 (1+1) 2 (2+0)
inor 1. 2. 3.	FAE-412 FAE-414 FAEE-415 FEE-411	Coldwater Aquaculture and Recreational Fisheries Aquatic Microbiology Climate Change and its Impact on Fisheries GIS and Remote Sensing in Fisheries	2 (1+1) 2 (1+1) 2 (2+0) 2 (1+1)
9. inor 1. 2. 3. 4. 5.	FAE-412 FAEE-414 FAEE-415 FEE-411 FEE-412	Coldwater Aquaculture and Recreational Fisheries Aquatic Microbiology Climate Change and its Impact on Fisheries GIS and Remote Sensing in Fisheries Responsible and Sustainable Fishing Methods	2 (1+1) 2 (1+1) 2 (2+0) 2 (1+1) 2 (1+1)
inor 1. 2. 3.	FAE-412 FAEE-414 FAEE-415 FEE-411 FEE-412 FPE-412	ents have the option to choose any Four Minor Courses - 8 cm Coldwater Aquaculture and Recreational Fisheries Aquatic Microbiology Climate Change and its Impact on Fisheries GIS and Remote Sensing in Fisheries Responsible and Sustainable Fishing Methods Principles and Techniques of Seafood Analysis Trade Regulations, Certification and Documentation in	2 (1+1) 2 (1+1) 2 (1+1) 2 (1+1) 2 (1+1)

IVth Year: Semester-II

Sl. No.	Course	Course Title	Credit	Total credit hours
A warend Experier	ess Developm	4-year B. F. Sc. (Hons.) a Student READY (ent Yojana) Program on In-plant/Industry Attachn Program/ Experiential Learning Program (ELP) / Pows.	nent / Rural Fish	eries Work
ī.	FSR-421	In-plant/ Industry Attachment (for 8 weeks)	5 (0+5)	
1.	10000		3 (013)	20 (0+20)

2.	FSR-422	Rural Fisheries Work Experience (RFWE) Program (for 8 weeks)	6 (0+6)
3.	FSR-423	Experiential Learning Program (ELP)	6 (0+6)
1.	FSR-424	Project Work	2 (0+2)
5.	FSR-425	Seminar	1 (0+1)

^{*} From the basket of courses of Skill Enhancement Courses

#Students have option to choose any Four Major Courses (12 credits) from the list of courses ## Students have option to choose any Four Minor Courses (08 credits) from the list of courses

Basic Supporting Courses

. No.	Course Category	Course Title	Credit Hours
1	FFD	DeeksharambhaInduction-cum-Foundation course) 2 weeks duration	2 (0+2) Non-Gradial
2.	FMS	Farming-Based Livelihood Systems	3 (2+1)
- <u>2.</u> 3.	FMS	Entrepreneurship Development and Business Management	3 (2+1)
4.	FMS	Agriculture Marketing and Trade	3 (2+1)
5.	FVS	Environmental Studies and Disaster Management	3 (2+1)
6.	FVS	Agricultural Informatics and Artificial Intelligence	3 (2+1)
7.	FAS	Communication Skills	2 (1+1)
8.	FAS	Personality Development	2 (1+1)
9.	FAS	Physical Education, First Aid, Yoga Practice and Meditation	2 (0+2)
10.	FAS	NSS/ NCC	2 (0+2)
11.	FFT	Educational Tour (2 Weeks Duration)	Non-Gradial
		Total Credits	25(12+13)

Summary of Credit Distributions

Type of courses	Credits
Core courses (Major and Minor/s)	120
Common courses (FMS+FVS+FAS)	23
Skill Enhancement Courses (SEC) or FSE	12
Internship/ Student READY	20
**MOOCS/SWAYAM:	10 Non-Gradial
Total	175+10**

SKILL ENHANCEMENT COURSES

- Students will be offered Skill Enhancement Course (SEC) consisting of courses from different areas
 to provide intensive Hands-on-training on campus or off Campus. Students may choose SIX Skill
 Enhancement Courses from the basket of SEC in 1st to 4th Semesters.
- University may introduce more Skill Enhancement Courses based on the available facilities and prospect of local employment and entrepreneurship development as well as expertise/resources available
- Students may opt UGC recommended short skill enhancement courses also (a list of skill development training areas as given in the main report).

B

^{**} Mandatory requirement for UG-Certificate.

^{***} Mandatory requirement for UG-Diploma.

Code SEC change by FSE

	Course Title	Credit Hours		
Aquaculture				
SEC-I	Fish/Shellfish Breeding and Hatchery Operation			
SEC-II	Fish/Shellfish Seed Rearing	2 (0+2)		
SEC-III	Fish/Shellfish Grow-out Production Management	2 (0+2)		
SEC-IV	Breeding and Culture of Ornamental Fish	2 (0+2)		
SEC-V	Integrated Fish Farming	2 (0+2)		
SEC-VI	Non-conventional/Diversified Farming Practices (Pearl Farming/Seaweed Farming/ Aquaponics/Microalgae Production, etc.)	2 (0+2)		
SEC-VIII	Fish Feed Production and Marketing	2 (0+2)		
SEC-XIII	Aquarium Making, Decoration and Management	2 (0+2)		
Aquatic Envir	onment Management			
SEC-VII	Analytical Techniques (Testing of Water, Soil, Feed etc.)	2 (0+2)		
Aquatic Anima	al Health Management			
SEC-1X	Laboratory Techniques for Fish Pathogen Detection	2 (0+2)		
SEC-IX Fish Processin		2 (0+2)		
Fish Processin		2 (0+2)		
Fish Processin SEC-X	g Technology			
	g Technology Preparation and Marketing of Value-Added Products	2 (0+2)		
Fish Processin SEC-X SEC-XII	Preparation and Marketing of Value-Added Products Preparation of Fish By-Products and Waste Utilization	2 (0+2)		
Fish Processin SEC-X SEC-XII SEC-XVII	Preparation and Marketing of Value-Added Products Preparation of Fish By-Products and Waste Utilization Fish Handling, Transportation and Preservation	2 (0+2) 2 (0+2) 2 (0+2)		
Fish Processin SEC-X SEC-XII SEC-XVII Fishing Technology	Preparation and Marketing of Value-Added Products Preparation of Fish By-Products and Waste Utilization Fish Handling, Transportation and Preservation Bio-chemical Analysis of Fish and fisheries products	2 (0+2) 2 (0+2) 2 (0+2)		
Fish Processin SEC-X SEC-XII SEC-XIII SEC-XIII	Preparation and Marketing of Value-Added Products Preparation of Fish By-Products and Waste Utilization Fish Handling, Transportation and Preservation Bio-chemical Analysis of Fish and fisheries products ology and Engineering	2 (0+2) 2 (0+2) 2 (0+2) 2 (0+2)		
Fish Processin SEC-X SEC-XII SEC-XIII SEC-XIII	Preparation and Marketing of Value-Added Products Preparation of Fish By-Products and Waste Utilization Fish Handling, Transportation and Preservation Bio-chemical Analysis of Fish and fisheries products ology and Engineering Net Making and Mending	2 (0+2) 2 (0+2) 2 (0+2) 2 (0+2)		
Fish Processin SEC-X SEC-XII SEC-XIII Fishing Technology SEC-XIV Fishery Extens	Preparation and Marketing of Value-Added Products Preparation of Fish By-Products and Waste Utilization Fish Handling, Transportation and Preservation Bio-chemical Analysis of Fish and fisheries products ology and Engineering Net Making and Mending Sion, Economics and Statistics	2 (0+2) 2 (0+2) 2 (0+2) 2 (0+2)		
Fish Processin SEC-XII SEC-XIII SEC-XIII SEC-XIII SEC-XIII SEC-XIII SEC-XIII SEC-XIII	Preparation and Marketing of Value-Added Products Preparation of Fish By-Products and Waste Utilization Fish Handling, Transportation and Preservation Bio-chemical Analysis of Fish and fisheries products ology and Engineering Net Making and Mending sion, Economics and Statistics Start-up and Incubation in Fisheries	2 (0+2) 2 (0+2) 2 (0+2) 2 (0+2) 2 (0+2)		
Fish Processin SEC-XII SEC-XII Fishing Technology SEC-XIV Fishery Extens SEC-XIV	Preparation and Marketing of Value-Added Products Preparation of Fish By-Products and Waste Utilization Fish Handling, Transportation and Preservation Bio-chemical Analysis of Fish and fisheries products ology and Engineering Net Making and Mending Sion, Economics and Statistics Start-up and Incubation in Fisheries Data Analysis and Computation	2 (0+2) 2 (0+2) 2 (0+2) 2 (0+2) 2 (0+2) 2 (0+2)		



ONLINE COURSES

 SAUs/CAUs will be free to include more online courses of 10 credits (as per UGC guidelines for online courses) as a partial requirement for the B. F. Sc. programme. Student will take in online mode, with approval from Dean of the SAU/CAU/College.

Indicative List of Online Courses on SWAYAM/MOOCs/Others

Coı	trse Title	Duration	Credits
1.	Climate-smart fisheries and aquaculture (FAO)	16 weeks	1
2.	Food loss and waste in fish value chain (FAO)	12 weeks	1
3.	Biostatistics (SWAYAM)	14 weeks	4
4.	Econometric Analysis (SWAYAM)	15 weeks	4
5.	Fisheries Ecosystem Approach to Fisheries (FAO)	12 weeks	1
6.	Sustainable Management of Biodiversity (SWAYAM)	12 weeks	4
7.	Indian Agriculture Development (SWAYAM)	20 weeks	4
8.	Environment Sustainability (SWAYAM)	6 weeks	1
9.	Artificial Intelligence (SWAYAM)	15 weeks	4
10.	Communication Technology in Education (SWAYAM)	15 weeks	4
11.	Knowledge Society (SWAYAM)	15 weeks	3
12.	NGO'S and Sustainable Development	15 weeks	1
13.	Counseling Psychology	12 weeks	1
14.	Gender Sensitization: Society Culture and Change	16 weeks	1
15.	Psychology of Stress, Health and Well-being	12 weeks	1
16.	Environmental Law (SWAYAM)	20 weeks	4
17.	Food Microbiology and Food Safety (SWAYAM)	15 weeks	4
18.	Intellectual Property (SWAYAM)	15 weeks	4
19.	Introduction To R (SWAYAM)	14 weeks	4
20.	Research Methodology (SWAYAM)	15 weeks	4
21.	Nanotechnology Applications in Fisheries	8 weeks	1
22.	Personality Development and Communication Skills	8 weeks	1
23.	Public Speaking	8 weeks	1
24.	Personality Development	8 weeks	1
25.	Emotional Intelligence	8 weeks	1
26.	Yoga Practices I	12 weeks	1
27.	Yoga Practices 2	12 weeks	1
28.	Ethics: Theories and Applications	12 weeks	1
29.	Information Sources and Library Services	6 weeks	1
30.	Qualitative Research Methods and Research Writing	12 weeks	1
31.	Extension and Communication Management	12 weeks	1

College of Community Science

B.Sc. (Hons.) Community Science (4 Years degree programme)

1st Year, I Semester

S.No.	Course Number	Course Title	Credit Hours
ļ	CFC-111	Deeksharambh (Foundation Course of 2 Weeks)	2(0+2) Non- Gradial
2	CFN-111	Food Standards and Quality Control	3(2+1)
3	CA1-111	Textile Science and Fabric Care	2(1+1)
4	CRM-111	Fundamental of Art and Design	2(1+1)
5	CHD-III	Childhood Development	3(2+1)
6	CEE-111	Communication for Development	2(1+1)
7	CMD-111	Farming System Based Livelihood	3(2+1)
8	NAE-III	Communication Skills	2(1+1)

Total Credits		22(10+1	2) (+2NG)
11		Skill Enhancement Course (SEC-II) *	2(0+2)
10		Skill Enhancement Course (SEC-I) *	2(0+2)
9	NAE-112/ NAE- 113	National Cadet Corps- NCC-I/ National Service Scheme-I (NSS-I)	1(0+1)

*SEC-I and *SEC-II to be selected from the list of the basket available under SEC-module-I Indicative options for SEC- MODULE-I** (any one module to be selected)

S.No.	Module	Course Code	Courses	Credit Hours
1.	Bakery and Confectionary	CSFN-111	Breads and Buns	2 (0+2)
	management-I	CSFN-112	Biscuits and Cookies	2 (0+2)
2.	Textile Design	CSAT-111	Textile Dying and Printing	2(0+2)
	Embellishment-I	CSAT-112	Fabric embellishment	2(0+2)
3.	Event Management and	CSRM-111	Housekeeping and Service Management	2 (0+2)
	Housekeeping-I	CSRM-112	Floral Art and Design-I	2 (0+2)
4.	Childhood Development and Assessment-I	CSHD-111	Developmental Assessment-I (Infancy and Toddlerhood)	2 (0+2)
		CSHD-112	Developmental Assessment-II	2 (0+2)
5.	Extension Education for	CSEE-111	Audio Visual Aids for Communication	2 (0+2)
	Community Development-I	CSEE-112	Extension Teaching Methods	2 (0+2)

II Semester

S. No.	Course Number	Course Title	Credit Hours	
1 CFN-121		Food Science and Processing	3(1+2)	
2	CAT-121	Fundamentals of Clothing Construction	3(1+2)	
3	CRM-121	Fundamentals of Ergonomics	2(1+!)	
4	CHD-121	Theoretical Approaches to Parenting	2(2+0)	
5.	CSTAT-121	Statistical Methods	2 (1+1)	
6	CMD-121	Entrepreneurship Development and Business Management	3(2+1)	
7	CVA-121	Environmental Studies	3(2+1)	
8		*Skill Enhancement Course (SEC-III)	2(0+2)	
9		*Skill Enhancement Course (SEC-IV)	2(0+2)	
10	NAE-122/ NAE- 123	National Cadet Corps- NCC-II/ National Service Scheme-II (NSS-II)	1(0+1)	
		Total Credits	23(10+13)	

*SEC-III and *SEC-IV to be selected from the list of the basket available under SEC-module- II Indicative options for SEC-MODULE-II** (any one previous selected module)

S.No.	Module	Course Code	Courses	Credit Hours
1.	Bakery and	CSFN-121	Cakes and Pastries	2 (0+2)
	Confectionary management-II	CSFN-122	Chocolate Making	2 (0+2)
2.	Textile Design	CSAT-121	Indian Embroideries	2(0+2)
	and Embellishment-II	CSAT-122	Quilting and Patchwork	2(0+2)



3.	Event Management and	CSRM-121	Housekeeping and Service Management-II	2 (0+2)
	Housekeeping-II	CSRM-122	Event Planning and Management	2 (0+2)
4.	Childhood	CSHD-121	Infant Stimulation Practices	2 (0+2)
PATE A	Development and Assessments-II	CSHD-122	Health Practices in Early Childhood	2 (0+2)
5.	Extension Education for	CSEE-121	Computerized Instructional Aids Production	2 (0+2)
	Community Development-II	CSEE-122	ICT and New Media	2 (0+2)

Post -II Semester Internship (only for exit option for award of UG- Certificate)

S. No.	Course Number	Course Title	Credit hours
1.	CINT-121	Internship (10 weeks)	10(0+10)

Compulsory Internship for students exercising exit option (UG-Diploma) after I Year

1Ind Year, III Semester

S. No.	Course Number	Course Title	Credit Hours
1	CFN-211	Food Packaging and Labelling	2(1+1)
2	CAT-211	Pattern Making and Draping	3(1+2)
3	CRM-211	Computer-aided Interior designing-I	3(1+2)
4	CHD-211	Early Childhood Education	3(2+1)
5	CEE-211	Extension and Rural Development	3(2+1)
6	CEE-212	Rural Sociology	2(2+0)
7	NAE-211	Physical Education, first aid, yoga practices and meditation	2(0+2)
8		*Skill Enhancement Course (SEC-V)	1(0+1)
9		*Skill Enhancement Course (SEC-VI)	1(0+1)
		Total Credits	20(9+11)

*SEC-V and *SEC-VI to be selected from the list of the basket available under SEC-III module

Indicative options for SEC-MODULE-III** (any one module to be selected)

S.No.	Module	Course Code	Courses	Credit Hours
1.	Food Service Management-I	CSFN- 211	Quantity Cookery	1 (0+1)
	Trianing emiliar	CSFN-212	Traditional Indian Foods	1 (0+1)
2.	Fashion	CSAT-211	Garment Designing	1(0+1)
-	Designing-I	CSAT-212	Accessory Designing	1(0+1)
3.	Interior Design and Decoration-I	CSRM - 211	Interior Designing and Decoration-I	1 (0+1)
		CSRM- 212	Floral Art and Design-II	1 (0+1)
4.	Early Childhood Care and	CSHD- 211	Establishment of ECCE Centers	1 (0+1)
	Education-I	CSHD- 212	Program Planning and Execution in ECCE centers	1 (0+1)
5.	Communication	CSEE-211	Print Journalism	1 (0+1)
<i>5.</i> 0	Technology and Journalism-I	CSEE-212	Electronic Journalism	1 (0+1)

IV Semester

S. No.	Course Number	Course Title	Credit Hours
1		Institutional Food Service Management	3 (2+1)
2		Retailing and Merchandising	2(1+1)



9		Total Credit	20(10+10)
0		*Skill Enhancement Course (SEC-VIII)	1 (0+1)
Q		*Skill Enhancement Course (SEC-VII)	1 (0+1)
100	Service Property and	Intelligence	
7	CVA-221	Agriculture Informatics and Artificial	3 (2+1)
6	CMD-221	Agricultural Marketing and Trade	
5	CEE-221		3 (2+1)
_	CEE 221	Training and Professional Development	2(0+2)
· .		Education	
4	CHD-221	Theories and Practices in Early Childhood	2 (2+0)
3	CRM-221	Housing and Space Management	3(1+2)

*SEC-VII and *SEC-VIII to be selected from the list of the basket available under SEC-module- IV

Indicative options for SEC-IV	MODULE** (any one	previous selected module)
Indicative ontions for SEC-LY	MODULE (an) one	7. 0 1 10 110 110 1

S.No.	Module	Course Code	Courses	Credit Hours
1.	Food Service			1 (0+1)
4.	Management-II	CSFN-222	Food Preservation and Storage-	1 (0+1)
2.	Fashion	CSAT-221	Fashion Illustration	1(0+1)
۷.	Designing-II	CSAT-222	Portfolio Development	1(0+1)
3. Interior Design		CSRM-221	Interior Accessories and Furnishings	1 (0+1)
\$2000F	Decoration-II	CSRM-222	Interior Designing and Decoration-II	1 (0+1)
4.	Early	CSHD-221	Management of ECCE center	1 (0+1)
-He	Childhood Care and Education- II	The state of the s	Monitoring and evaluation of ECCE center	1 (0+1)
5	Communication	CSEE-221	Audio and Video Recording	1 (0+1)
5.	Technology and Journalism-	CSEE-222	Instructional Video Production	1 (0+1)

Post -IV Semester Internship (only foe exit option for award of UG- Diploma)

Post -1 v	Semester Internship (only 1	or child	Caralit house	
S.No.	Course Number	Course Title	Credit hours	
5.110.		Internship (10 weeks)	10(0+10)	
N 8800	CINT-221	memory (10 weeks)		

Compulsory Internship for students exercising exit option (UG-Diploma) after II Year

IIIrd Year, V Semester

S. No.	Course	Course Title	Credit Hours
: -	CHPY-311	Human Physiology	3 (2+1)
2	CFN-311	Food Hygiene and Sanitation	1 (1+0)
3	CAT-311	Techniques of Fabric Construction	3 (1+2)
4	CAT-312	Principles of Textile Designing	3 (0+3)
5	CRM-311	Consumer Education	3 (1+2)
6	CHD-311	Adolescent Development	3 (2+1)
7	CHD-312	Adulthood Development	2 (1+1)
8	CEE-311	Project Management	3 (2+1)
9	CFC-311	Educational Tour (10-12 days)	2 (0+2) non- gradial
		Total Credits	21(10+11) +2 NG

VI Semester

VI belieste.		70 - 215 - 216 - 2	Condit House
S. No.	Course	Course Title	Credit Hours
	Number	The second secon	3 (2+1)
1	CFN-321	Nutritional Biochemistry	3 (2+1)

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0	CEE-322	Total Credits	21(12+9)
8	CEE-322	Seminar	1 (0+1)
7	CEE-321	Diffusion and Adoption of Innovation	3 (2+1)
6	CHD-321	Marriage and Family Dynamics	3 (2+1)
5	CRM-322	Computer Aided Interior Designing-II	3 (0+3)
4	CRM-321	Principles of Management	2 (2+0)
3	CAT-321	Traditional Textiles and Costumes of India	3 (2+1)
2	CFN-322	Human Nutrition	3 (2+1)

IVth Year, VII Semester

S.No.	Course Number	Course Title	Credit Hours
1	CEXT -411	Research Methodology	3 (2+1)
2	NAE-412	Personality Development	2(1+1)
3		Elective courses from major / minor (Anyone specialization)	15
	1	Total Credits	20

List of elective courses

Elective 1-Food & Nutrition (FN)

S.No.	Course Number	Course Title	Credit Hours
1.	CFN-411	Food Analysis	3(1+2)
2.	CFN-412	Normal and Therapeutic Nutrition	3(2+1)
3.	CFN-413	Food Product Development and Formulations	2(1+1)
4.	CFN-414	Clinical Nutrition	2(2+0)
5.	CFN-415	Diet and Nutrition Counselling	1(0+1)
6.	CFN-416	Sports Nutrition	2(2+0)
7.	CFN-417	Community Nutrition and Education	2(1+1)

Elective 2-Apparel and Textile Science (ATS)

S.No.	Course Number	Course Title	Credit Hours
1.	CAT-411	Advance Draping Technique	3(0+3)
2.	CAT-412	CAD-Pattern Making and Grading	2(0+2)
3.	CAT-413	Quality Analysis in Textile and Apparels	3(2+1)
4.	CAT-414	Apparel Production Management	3(3+0)
5.	CAT-415	Agro Textiles	2(1+1)
6.	CAT-416	Recent Advances in Textiles	2(2+0)

Elective 3-Resource Management and Consumer Science (RMCS)

S.No.	Course Number	Course Title	Credit Hours
I.	CRM-411	Residential and Commercial Space Design	3(1+2)
2.	CRM-412	Colour and Lighting in Interiors	3(2+1)
3.	CRM-413	Tourism and Hospitality Management	3(1+2)
4.	CRM-414	Financial Management and Consumer Behavior	3(2+1)
5	CRM-415	Work Space and Product Design	3(1+2)

Elective 4-Human Development and Family Studies (HDFS)

S.No.	Course Number	Course Title	Credit Hours
1.	CHD-411	Developmental Challenges in Children	3(2+1)



2.	CHD-412	Methods and Materials for Teaching Young Children	3(1+2)
3.	CHD-413	Computer application in ECCE	3(1+2)
4.	CHD-414	Guidance and Counselling	3(2+1)
5.	CHD-415	Parent Education and Community welfare Programs	3(2+1)

Elective 5-Extension Education and Communication Management (EECM)

S.No.	Course Number	Course Title	Credit Hours
1.	CEE-411	Extension Program Management	3(1+2)
2.	CEE-412	Extension Training Management	3(1+2)
3.	CEE-413	Advertising and Social Marketing	3(1+2)
4.	CEE-414	Public relations and Communication Management	3(1+2)
5.	CEE-415	Web Designing	3(0+3)

VIII Semester

S.No.	Course Number	Course Title	Credit Hours
	Student Read	y Programme	
1.	CSR-421	Rural Awareness Work Experience (RAWE)	10 (0+10)
2	CSR-422	In-Plant	05 (0+5)
3.	CSR-423	Internship	05 (0+5) *
	CSR-424	Industrial Attachment	
	CSR-425	Experiential learning	4. es
	CSR-426	Hands on Training	
	CSR-427	Student Project	
	CONTROL STATE OF	Total	20

*out of 20 credits, 10 credits for RAWE and 05 credits for In-plant is fixed while flexibility given to choose 05 credits from any of the listed courses given in point no.-3

Summary of Credit Distributions

S. No.	Type of Courses	Credits
1	Core courses (major and minor/s)	112
2	Common courses (MDC+VAC+AEC)	23
3	Skill Enhancement Courses (SEC)	12
4	Student Ready Programme (SRP) (RAWE/ In-plant/ Internship etc.)	20
5	**MOOCS/ SWAYAM (Online courses from any online govt. approved platforms i.e. SWYAM/NPTEL/IGNOU)	10
6	***Non Gradial Total	04 167+10**4***



B.Sc. (Hons) Food Nutrition and Dietetics

First Year ,I Semester

Sr. No.	Course Code	Course Title	Credit Hours	Total Credits
1	CFC-111	Deeksharambh (Induction cum Foundation Course)	2 (0+2) NG	
2	CFND- 111	Introduction to Food Science and Nutrition	3 (3+0)	
3	CFND -112	Principles and Practices of Food Preparation	2 (1+1)	
4	CFND -113	Indian Cuisinology	2 (0+2)	
5	CFND -114	Nutritional Status Assessment	3 (2+1)	
6	CFND -115	Convenience and Health Food Formulation	2 (0+2)	
7	CMD -111	Farming-based Livelihood Systems	3 (2+1)	
8		Skill Enhancement Courses (SEC-I)*	2 (0+2)	
9		Skill Enhancement Courses (SEC-II)*	2 (0+2)	
10	NAE-111	Communication Skills	2 (1+1)	
11	NAE -112/ NAE- 113	NSS-I / NCC-I	1 (0+1)	21 (8+13)

(SEC-I)* and (SEC-II)* to be selected from basket of following available SEC modules

Skill Enhancement Courses (SEC)* for First Year, Semester I

Sr. No.	Module Name	Course Code	Course Title	Credit Hours
SEC I	Food Science I	CSFS -111	Cake Making	2 (0+2)
	Food Science I	CSFS -112	Cake Decoration and Icing	2 (0+2)
SEC II	Food Science II	CSFS -113	Jam and Jelly Preparation	2 (0+2)
520 11	Food Science II	CSFS -114	Pickle Preparation	2 (0+2)

II Semester

Sr. No.	Course Code	Course Title	Credit Hours	Total Credits
1	CFND- 121	Bakery Science and Technology	3 (2+1)	
2	CFND -122	Nutritional Program Surveillance	3 (1+2)	
3	CFND -123	Food Preservation and Storage	2 (0+2)	
4	NAE-121	Personality Development	2 (1+1)	
5	CMD -121	Entrepreneurship Development and Business Management	3 (2+1)	
6	CVA -121	Environmental Studies	3 (2+1)	
7	200000000000000000000000000000000000000	Skill Enhancement Courses (SEC-III)*	2 (0+2)	
8		Skill Enhancement Courses (SEC-IV)*	2 (0+2)	21
9	NAE -122/ NAE -123	NSS-II / NCC-II	1 (0+1)	(10+11)

(SEC-I)* and (SEC-II)* to be selected from basket of following available SEC modules

Skill Enhancement Courses (SEC)* for First Year, Semester II

Category	Module Name	Course Code	Course Title	Credit Hours
SEC III	Food Science III	CSFS-121	Sugar Processing and Confectionery	2 (0+2)
one in	Food Science III	CSFS -122	Indian Traditional Sweets	2 (0+2)
SEC IV	Food Science IV	CSFS -123	Candy Making	2 (0+2)
SEC IV	Food Science IV	CSFS -124	Ready-to-Eat Snacks	2 (0+2)

8

Post -II Semester Internship (only for exit option for award of UG- Certificate)

S. No.	Course Number	Course Title	Credit hours
1	CFINT-121	Internship** (10 weeks)	10 (0+10) *

Compulsory Internship for students exercising exit option (UG-Diploma) after I Year

Second Year, III Semester

Sr. No.	Course Code	Course Title	Credit Hours	Total Credits
1	CFND -211	Principles of Human Nutrition	4 (4+0)	
2	CFND -212	Fundamentals of Food Science	2 (1+1)	
3	CFND -213	Community Nutrition and Education	3 (2+1)	
4	CHPY -211	Human Physiology	3 (2+1)	
5	CFND -214	Economics and Food Business Management	2 (2+0)	
6	CFND -215	Food Psychology	2 (2+0)	
7	CFND -216	Food Nutrition and Agriculture	2 (2+0)	
8		Skill Enhancement Courses (SEC-V) *	2 (0+2)	22 (15+7)
9	NAE-211	Physical Education, First Aid, Yoga Practices and Meditation	2 (0+2)	

(SEC-V) * to be selected from basket of following available SEC modules

Skill Enhancement Courses (SEC)* for Second Year, Semester III

Category	Module Name	SEM III Course Code	Course Title	Credit Hours
SEC V	Nutrition & Dietetics	CSND -211	Development of Nutritional Educational Material	2 (0+2)
	Institutional Food Service Management	CSIM -211	Quality Control in Food Processing Units	2 (0+2)

Second Year, IV Semester

Sr. No.	Course Code	Course Title	Credit Hours	Total Credits
1	CFND -221	Normal Nutrition and Meal Planning	3 (2+1)	20 (13+7)
2	CFND -222	Public Health Nutrition	3 (2+1)	
3	CFND -223	Nutritional Biochemistry	3 (3+0)	
4	CFND -224	Food Standards and Quality Control	3 (2+1)	
5		Skill Enhancement Courses (SEC- VI) *	2 (0+2)	
6	CMD -221	Agriculture Marketing and Trade	3 (2+1)	
7	CVA -221	Agricultural Informatics and Artificial Intelligence	3 (2+1)	

(SEC-VI) * to be selected from basket of following available SEC modules

Skill Enhancement Courses (SEC)* for Second Year, Semester IV

		SEM I	V	v
Category	Module Name	Course Code	Course Title	Credit Hours
SEC VI	Nutrition & Dietetics II	CSND -221	Assessment of clinical signs and symptoms	2 (0+2)
	Institutional Food Service Management II	CSIM -221	Development of Project Proposals	2 (0+2)

Post -IV Semester Internship (only for exit option for award of UG- Certificate)

S. No.	Course Number	Course Title	Credit hours
1	CFINT-221	Internship** (10 weeks)	10 (0+10) *



Compulsory Internship for students exercising exit option (UG-Certificate) after II Year

Third Year, V Semester

Sr No.	Course Code	Course Title	Credit Hours	Total Credits
1	CFND -311	Therapeutic Nutrition	4 (3+1)	22 (15+7)
2	CFND -312	Food Analysis	3 (2+1)]
3	CFND -313	Current Food Processing Technologies	3 (2+1)	
4	CFND -314	Diet & Nutrition Counselling	2 (0+2)	
5	CFND -315	Nutraceuticals& Health Foods	2 (2+0)	
6	CFND -316	Introduction to Clinical Nutrition	3 (2+1)]
7	CSTAT- 311	Statistical Methods	3 (2+1)	
8	CFC -311	Educational Tour (10-14 days)	2 (0+2) Non-gradial	

Third Year, VI Semester

Semester VI				
Sr No.	Course Code	Course Title	Credit Hours	Total Credits
1	CFND- 321	Food Nutrition Security	2 (1+1)	22 (13+9)
2	CFND -322	Nutritional Body Composition & Fitness	3 (2+1)	
3	CFND -323	Food Microbiology	3 (2+1)	
4	CFND -324	Milk Processing & Technology	3 (2+1)	
5	CFND -325	Cereals & Millets: Processing & Technology	3 (2+1)	
6	CFND -326	Sustainable Nutrition	3 (2+1)	
7	CFND -327	Hospitality Management	2 (1+1)	
8	CFND -328	Food Hygiene & Sanitation	2 (1+1)	

Forth Year, VII Semester

Sr No.	Course Code	Course Title	Credit Hours	Total Credits
1	CFND-411	Ethics in Human Research	1 (1+0)	
2	CFND -412	Seminar	1 (0+1)	20
3		Elective Courses*	18	

List of Elective Courses

lective-			
Sr. No.	Course Code	Course Title	Credit Hours
1	CND- 411	Diet Therapy for Hospitalized Cases	4 (1+3)
2	CND- 412	E-applications for Dietetics	4 (1+3)
3	CND -413	Nutrigenomics	2 (2+0)
4	CND -414	Nutrition for Special Conditions	3 (2+1)
5	CND -415	Nutrition through Life Cycle	3 (2+1)
6	CND -416	Fundamentals of Research Methodology and Library Search	2 (1+1)
7	CND -417	Sports Nutrition	3 (2+1)



8	CND -418	Diet and Immunity	3 (2+1)
9	CND -419	Global Nutrition	2 (2+0)
Elective-2	2: Food Science		
Sr. No.	Course Code	Course Title	Credit Hours
1	CFS-411	Food Processing and Packaging	4 (3+1)
2	CFS -412	Fruits and Vegetables Processing and Technology	4 (2+2)
3	CFS -413	Food Safety and Packaging	2 (1+1)
4	CFS -414	Food Toxicology and Quality Testing	3 (2+1)
5	CFS- 415	Food Chemistry	3 (3+0)
6	CFS- 416	Meat Processing and Technology	3 (2+1)
7	CFS- 417	Pulses and Oilseeds: Processing and Technology	3 (2+1)
8	CFS- 418	Sensory Evaluation of Foods	2 (1+1)

Elective-3: Institutional Food Service Management

Sr. No.	Course Code	Course Title	Credit Hours
ĩ	CIM -411	Institutional Food Service Management	3 (0+3)
2	CIM -412	Sensory Evaluation of Foods	2 (1+1)
3	CIM -413	Event Management	3 (0+3)
4	CIM -414	Food Processing and Packaging	4 (3+1)
5	CIM -415	Ergonomics in Food Service	2 (2+0)
6	CIM -416	Food Standards and Quality Control	3 (2+1)
7	CIM -417	Food Toxicology and Quality Testing	3 (2+1)
8	CIM- 418	Print and Electronic Journalism	3 (0+3)
9	CIM- 419	Tourism and Hospitality Management	3 (1+2)

Fourth Year, VIII Semester

		Semester VIII		
Sr No.	Course Code	Course Title	Credit Hours	Total Credits
SC SI FIN		Student READY Option A (Any Two)		
1	CFSR- 421	Inplant Training (10 weeks)	10 (0+10)	20 (0+10)
2	CFSR- 422	Student Project	10 (0+10)	
3	CFSR- 423	Hands-On Training	10 (0+10)	
		Option B		
4	CFSR-424	Internship	20 (0+20)	
		Online courses (MOOC)*		10
		Grand Total		167 + 10* (MOOC) +4 (NG)



Non-Gradial courses.

The students will take 10 credits of online courses either from MOOC/Swayam/ NPTEL/ mooKIT/ edX/ Coursera or any other portal accepted by the University during the third fourth year as a partial requirement for the B.Sc. Food Nutrition and Dietetics (Hons.).

Summary of credit distributions

Type of Courses	Credits	
Core Courses (Major and Minor/s)	112	
Skill Enhancement Courses (SEC)	12	
Common Courses (MDC + VAC + AEC)	23	
Elective Courses	20	
Total	167	
Non Gradial*	04	
MOOCs/SWAYAM**	10 (Online Courses)	
Grand Total	181	



College of MCAET, Ambedkar Nagar Semester- wise Course Programme for B.Tech Agricultural Engineering as per 6th Dean Committee recommendation

No.	Course No.	Title of the Course	Credit Hr
Semester	r-l		i^-
1,	TFC-111	Deeksharambh	0+2 (NG) Non-gradial
2.	TBS-111	Crop Production and Protection Technologies	4(3+1)
3.	TAE-111	Introduction to Agricultural Engineering	4(3+1)
4.	TBS-112	Surveying and Levelling	3(1+2)
5.	TME-111	Workshop Technology and Practice	2(0+2)
6.	TBS -113	Basic Electrical Gadgets and Instruments	3(2+1)
7.	TCS-111	Agricultural Informatics and Artificial Intelligence	3(2+1)
8.	TFC-112	NSS-I/NCC-I	1(0+1)
		Total	20(11+9)

Semester-II

S.No.	Course No.	Course Title	Credit hrs
1.	TRP-121	Skill Enhancement	8(0+8)
2.	TME-121	Engineering Drawing	2(0+2)
3.	TCS-121	Computer Programing and Data Structures	2(0+2)
4.	TBS-121	Farming Based Livelihood Systems	3(2+1)
5.	TBS-122	Environmental Studies and Disaster Management	3(2+1)
6.	TBS-123	Communication Skills	2(1+1)
7.	TFC-121	NSS-II/NCC-II	1(0+1)
8.	TBS-124	Elementary Mathematics*	2(2+0) NG
	7)	Total	21(5+16) +2 (Non-gradial)

only for 10 +2 PCB and Agriculture background students

Post-II Semester

S.No.	Course No.	Course Title	Credit hrs
1.	TRP-101	Internship (for 10 weeks, only for exit option for award of UG-Certificate)	10(0+10)
Semeste	er-III		
S.No.	Course No.	Course Title	Credit hrs
1.	TBS-211	Engineering Mathematics-I	3(3+0)
2.	TBS-212	Engineering Physics	3(2+1)
3.	TBS-213	Engineering Chemistry	3(2+1)
4.	TBS-214	Engineering Mechanics	3(2+1)
5.	TBS-215	Soil Mechanics	2(1+1)
6.	TSW-211	Fluid Mechanics and Open Channel Hydraulics	3(2+1)
7.	TPF-211	Engineering Properties of Agricultural Produce and Food Science	3(2+1)
8.	TFM-211	Farm Machinery & Equipment - I	3(2+1)
9.	TFC-211	Physical Education, First Aid, Yoga Practice and Meditation	2(0+2)
		Total	25(16+9)

Semeste	Semester-IV				
S.No.	Course No.	Course Title	Credit hrs		
1.	TBS-221	Engineering Mathematics-II	3(3+0)		
2.	TBS-222	Theory of Structures	2(1+1)		
3.	TBS-223	Building Construction & Cost Estimation	2(2+0)		



١.	TBS-224	Entrepreneurship Development and Business Management	3(2+1)
	TSW-221	Watershed Hydrology	3(2+1)
	TSW-222	Soil and Water Conservation Engineering	3(2+1)
,. '.	TFM-221	Farm Machinery & Equipment - II	3(2+1)
3.	TRE-221	Renewable Energy Sources	3(2+1)
9.	TPF-221	Post-harvest Engineering of Cereals, Pulses and Oilseeds	3(2+1)
		Total	25(18+7)

S.No.	Semester Course No.	Course Title	Credit hrs
1.	TRP-201	Internship (for 10 weeks, only for exit option for award of UG-Certificate)	10(0+10)
Semeste	r-V		2275 gg - 1 22 - 2 22 - 2
S.No.	Course No.	Course Title	Credit hrs
1.	TBS-311	Strength of Materials	2(1+1)
2.	TME-311	Theory of Machines	2(2+0)
3.	TME-312	Thermodynamics and Heat Transfer	3(3+0)
4.	TFM-311	Tractor & Automotive Engines	3(2+1)
5.	TID-311	Irrigation and Drainage Engineering	4(3+1)
6.	TPF-311	Food and Dairy Engineering	4(3+1)
7.	TBS-312	Personality Development	2(1+1)
8.	TAE-311	Seminar	1(0+1)
	TAE-312	Study tour	2(0+2)NG
9.	TAE-312	Total	21(15+6) +2 (Non-gradial)

Semeste	Semester-VI			
S.No.	Course No.	Course Title	Credit hrs	
1.	TFM-321	Tractor Systems & Controls	3(2+1)	
2.	TID-321	Groundwater, Wells and Pumps	3(2+1)	
3.	TCS-321	Sensors, Al and Robotics in Agriculture	3(2+1)	
48,00		Agricultural Structures & Environment Control	3(2+1)	
4.	TBS-321	Bioenergy Systems: Design and Applications	3(2+1)	
5.	TRE-321		3(2+1)	
6.	TME-321	Refrigeration and Air-conditioning	2(1+1)	
7.	TPF-321	Post-harvest Engineering of Horticultural Crops		
8.	TAE-321	Case study	1(0+1)	
10 650 60	** The state of th	Total	21(13+8)	

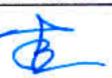
Semeste	-VII	The area of the second	Credit hrs
S.No.	Course No.	Course Title	
1.	TRP-411	Project-I	3(0+3)
2.	TME-411	Engineering Graphics and Design	2(0+2)
3.	TPF-411	Food Quality and Safety	3(2+1)
	TSW-411	Watershed Planning and Management	3(2+1)
4.	200000000000000000000000000000000000000	Sprinkler & Micro Irrigation Systems	2(1+1)
5.	TID-411	Machine Design	2(2+0)
6.	TME-412	. All the second of the second	3(2+1)
7.	TBS-411	Electrical Machines	2(1+1)
8.	TBS-412	Agricultural Statistics and Data Analysis Total	20(10+10)

Semester-	VIII		Credit hrs
S.No.	Course No.	Course Title	
1	TRP-421	Project-II	4(0+4)
1.	14.4041 204 000000	In plant training/Research Internship	8(0+8)
2.	TRP-422	The state of the s	3(2+1)
3.		Elective-I	0(2:-7

B

4.		Elective-II		3(2+1)
5.		Elective-III		3(2+1)
	**		Total	21(6+15)
1.	TOL-001	On-line course**		06
• N	lay take one or mor			
• T	otal duration of cou	rse(s) – 20 weeks/ 80 hours		
and To	tal			174+6

S.No.	Course No.	Course Title	Credit Hr
160 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TFM-421	Mechanics of Tillage and Traction	3 (2+1)
1. 2.	TFM-421	Farm Machinery Design and Production	3 (2+1)
3.	TFM-423	Tractor Design and Testing	3 (2+1)
40460	TFM-424	Hydraulic Drives and Controls	3 (2+1)
4.	Accompanies and the second	Human Engineering and Safety	3 (2+1)
5.	TFM-425		3 (2+1)
6.	TFM-426	Precision Agriculture and System Management	
7.	TRE-421	Photovoltaic Technology and Systems	3 (2+1)
8.	TRE-422	Wind Power Technology and Systems	3 (2+1)
9.	TRE-423	Waste and By-products Utilization	3 (2+1)
10.	TSW-421	Floods and Control Measures	3 (2+1)
11.	TID-421	Remote Sensing and GIS Applications	3 (2+1)
12.	TSW-422	Information Technology for Land and Water Management	3 (2+1)
13.	TSW-423	Wasteland Development	3 (2+1)
14.	TID-422	Minor Irrigation and Command Area Development	3 (2+1)
15.	TID-423	Management of Canal Irrigation System	3 (2+1)
16.	TID-424	Water Quality and Management Measures	3 (2+1)
17.	TID-425	Landscape Irrigation Design and Management	3 (2+1)
18.	TSW-424	Application of Plastics in Agriculture	3 (2+1)
19.	TSW-425	Precision Farming Techniques for Protected Cultivation	3 (2+1)
20.	TBS-421	Environmental Engineering	3 (2+1)
21.	TPF-421	Development of Processed Food Products	3 (2+1)
22.	TPF-422	Food Packaging Technology	3 (2+1)
23.	TPF-423	Food Plant and Equipment Design	3 (2+1)
24.	TPF-424	Emerging Technologies in Food Processing	3 (3+0)
25.	TPF-425	Processing of Livestock, Fish and Marine Products	3 (2+1)
26.	TPF-426	Food Business Management and Entrepreneurship Development	3 (3+0)
27.	TCS-421	MATLAB Programming	3 (1+2)
28.	TCS-422	Python Programming	3 (1+2)
29.	TCS-423	Artificial Intelligence	3 (2+1)
30.	TFM-427	Advances in Automation and Robotics in Agriculture	3 (2+1)
31.	TCS-424	Machine Learning	3 (2+1)
32.	TBS-422	Operations Research	3 (3+0)
33.	TME-421	Mechatronics	3 (2+1)
34.	TPF-427	Natural Fibres: Extraction & Properties	3 (2+1)
35.	TPF-428	Natural Fibre Applications in Agriculture	3 (2+1)
36.	TPF-429	Processing of Natural Fibres	3 (2+1)
37.	TBS-423	Agricultural Marketing and Trade	3 (2+1)



Department / section wise course breakup

S.No.	Course No.	Course Title	Credit Hour
	n courses/ Ability I	Enhancement Courses, etc	
1.	TFC-111	Deeksharambh	0+2 (NG) Non-
			Gradial
2.	TFC-112	NSS-I/NCC-I	1(0+1)
3.	TFC-121	NSS-I/NCC-II	1(0+1)
4.	TFC-211	Physical Education, First Aid, Yoga Practice and	2(0+2)
		Meditation	
		TOTAL	4(0+4)
Basic Agric	culture		
1.	TBS-111	Crop Production and Protection Technologies	4(3+1)
2.	TBS-121	Farming Based Livelihood Systems	3(2+1)
3.	TBS-122	Environmental Studies and Disaster Management	3(2+1)
4.	TBS-412	Agricultural Statistics and Data Analysis	2(1+1)
		TOTAL	12(8+4)
Social Scie	nces		
1.	TBS-123	Communication Skill	2(1+1)
2.	TBS-312	Personality Development	2(1+1)
3.	TBS-224	Entrepreneurship Development and Business	3(2+1)
3TL/6		Management	
		TOTAL	7(4+3)
Common	Agricultural Engine	ering	
1.	TAE-111	Introduction to Agricultural Engineering	4(3+1)
2.	TAE-311	Seminar	1(0+1)
3.	TAE-321	Case Study	1(0+1)
4.	TAE-312	Study Tour	2(0+2)NG
		TOTAL	6(3+3)
Skill Enha	ncement Courses/	Project	
1.	TRP-121	Skill Enhancement	8(0+8)
2.	TRP-411	Project-I	3(0+3)
3.	TRP-421	Project-II	4(0+4)
		TOTAL	15(0+15)
In plant tr	aining/ Internship		33
1.	TRP-101	Internship only for exit option for award of UG- Certificate	10(0+10)#
2.	TAE-201	Internship only for exit option for award of UG- Diploma	10(0+10)#
3.	TAE-422	In plant training/Research Internship	8(0+8)
٠,	105 744	TOTAL	8(0+8) #Credits not included
Basic Scie	nces		
1.	TBS-124	Elementary Mathematics*	2(2+0) NG
2.	TBS-211	Engineering Mathematics-I	3(3+0)
3.	TBS-221	Engineering Mathematics-II	3(3+0)
4.	TBS-212	Engineering Physics	3(2+1)
5.	TBS-213	Engineering Chemistry	3(2+1)
		TOTAL	12(10+02) +2 (Non-gradial



ricultura	al Structures and C	ivil and Environmental Engineering	
1.	TBS-112	Surveying and Levelling	3(1+2)
2.	TBS-214	Engineering Mechanics	3(2+1)
3.	TBS-215	Soil Mechanics	2(1+1)
4.	TBS-222	Theory of Structures	2(1+1)
5.	TBS-223	Building construction & Cost Estimation	2(2+0)
6.	TBS-311	Strength of Materials	2(1+1)
7.	TBS-321	Agricultural Structures & Environment Control	3(2+1)
		TOTAL	17(10+7)
1echanica	al Engineering		
1.	TME-111	Workshop Technology and Practice	2(0+2)
2.	TME-121	Engineering Drawing	2(0+2)
3.	TME-311	Theory of machines	2(2+0)
4.	TME-312	Thermodynamics and Heat Transfer	3(3+0)
5.	TME-321	Refrigeration and Air-conditioning	3(2+1)
6.	TME-412	Machine Design	2(2+0)
7.	TME-411	Engineering Graphics and Design	2(0+2)
		TOTAL	16(9+7)
lectrical	and Electronics Eng	gineering	
1.	TBS-113	Basic Electrical Gadgets and Instruments	3(2+1)
2.	TBS-411	Electrical Machines	3(2+1)
		TOTAL	6(4+2)
Computer	Science and Engin	eering	
1.	TCS-111	Agricultural Informatics and Artificial Intelligence	3(2+1)
2.	TCS-121	Computer Programing and Data Structure	2(0+2)
3.	TCS-321	Sensors, AI and robotics in Agriculture	3(2+1)
		TOTAL	8(4+4)
arm Mac	hinery and Power	Engineering	
1.	TFM-211	Farm Machinery & Equipment - I	3(2+1)
2.	TFM-221	Farm Machinery & Equipment - II	3(2+1)
3.	TFM-311	Tractor & Automotive Engines	3(2+1)
4.	TFM-321	Tractor System & Controls	3(2+1)
118.555	e Energy Engineeri		
1.	TRE-221	Renewable Energy Sources	3(2+1)
2.	TRE-321	Bio-energy Systems: Design and Applications	3(2+1)
	1	TOTAL	6(4+2)
Soil and V	Vater Conservation	Engineering	
1.	TSW-211	Fluid Mechanics and Open Channel Hydraulics	3(2+1)
2.	TSW-221	Watershed Hydrology	3(2+1)
3.	TSW-222	Soil and Water Conservation Engineering	3(2+1)
4.	TSW-411	Watershed Planning and Management	3(2+1)
7.	1011 111	TOTAL	12(8+4)
rrigation	and Drainage Engi		
1.	TID-311	Irrigation and Drainage Engineering	4(3+1)
2.	TID-311	Groundwater, Wells and Pumps	3(2+1)
977	TID-321	Sprinkler & Micro Irrigation Systems	2(1+1)
3.	110-411	TOTAL	9(6+3)
D	a and Food Fuelus		10.01
C C COLOR DE	g and Food Engine	Engineering Properties of Agricultural Produce and	3(2+1)
1.	TPF-211	Food Science	-121
	New and Phanton	Post-harvest Engineering of Cereals, Pulses and	3(2+1)
2.	TPF-221	Doct harvoot Engineering of Careaic Diliege and	71/-

由

3.	TPF-311	Food and Dairy Engineering	4(3+1)
4.	TPF-321	Post-harvest Engineering of Horticultural Crops	2(1+1)
5.	TPF-411	Food Quality and Safety	3(2+1)
		TOTAL	15(10+5)

315:1835 To consider and approve the proposal for number of seats for admission in Under-graduate and Post-graduate degree programmes of the six colleges of the University through UPCATET-2025 prepared as per proposal/recommendations submitted by Dean's of the respective colleges.

The Academic Council thoroughly discussed the number of seats for admission in UG, PG and Ph.D. Programme of all colleges of the university through UPCATET-2025 prepared as per proposals/recommendations submitted by Deans of the respective colleges. The Academic Council unanimously resolved that the paid seats be added in free/normal seat where no admission had been taken on paid seat in previous year. The Academic Council approved the amended list which is given below:

Number of Seats Under Graduate Degree Programme Academic Year 2025-26

S.N.	Course Name	Essential Qualification	Total Intake of	Total Seat I	JPCATET-2	025	ICAR Quota Seats	
			the University	Normal Seat	Paid Seat	NRI Seat	20%/VCI-15%	
1	B.Sc. (Hons.) Agriculture, main Campus	Intermediate in Agri. Sci. /PCB/ PCM/PCMB	175	100	38	02	35	
2	B.Sc. (Hons.) AgricultureAzamg arh Campus	Intermediate in Agri. Sci. /PCB/ PCM/PCMB	106	85	7₹1	2	21	
3	B.Sc. (Hons.) Agriculture, Gonda Campus	Intermediate in Agri. Sci. /PCB/ PCM/PCMB	81	65	250/)	70	16	
	Total		362	250	38	02	72	
4	B.Sc. (Hons.) Horticulture	Intermediate in Agri. Sci. /PCB/ PCM/PCMB	110	83	05	=	22	
5	B.Sc. (Hons.) Forestry	Intermediate in Agri. Sci. /PCB/ PCM/PCMB	30	24	150	70	06	
6	B.Sc. (Hons.) Community Science	Intermediate in Art with Home Science as a subject /PCB /PCM/Agri. Sci. /PCMB	40	32	-34	1	08	
7	B.Sc. (Hons.) Food Nutrition and Dietetics	Intermediate in Art with Home Science as a subject /PCB /PCM/Agri. Sci. /PCMB	30	24	5 <u>-</u> 5	29	06	
80	B.Tech. (Agricultural Engineering)	Intermediate in Agril./PCM/ PCMB/PCB	60	48		-	12	
09	B.Tech. (Computer Science & Engineering)	Intermediate in PCM/ PCMB	30	30 By AKTU) =);	•	: <u>-</u>	



10	B.Tech. (Mechanical Engineering)	Intermediate in PCM/ PCMB	20	20 By AKTU	200	-	* <u>*</u> ***
11	B.Tech. Biotechnology	Intermediate in Agril./PCM/ PCMB/PCB	40	32	2 6	2	08
12	B.F.Sc. (Bachelor of Fisheries Science)	Intermediate in Agri. Sci. /PCB/PCMB	40	32	-		08
13	B.V.Sc.&A.H.	Intermediate in PCB/PCMB	80	40	20	08	12 VCI
		Total UG Programme	842	615	63	10	142-ICAR & 12-VCI
Nun	nber of Seats Post	Graduate (Master's) Deg	ree Program	mme Acade	emic Yea	r 2025-2	6
S.N.	Course Name	Essential Qualification	Total Intake of	Total Seat I	UPCATET-2	025	ICAR Quota Seats 30%
			the University	Normal	Paid	NRI	
	College of Agricultu	ire, Main Campus					ļ.
1	Biochemistry	B.Sc.(Ag.)/B.Sc.Ag. (Hons.) / B.Sc. (Hons.) Ag. / B.Sc. Hort./ B.Sc. (Hons.) Hort./B.Sc. (Hort.) Hons. (10+2+4 years degree)	16	11	>=	-	05
2	Molecular Biology and Biotechnology	B.Sc.(Ag.)/B.Sc. Ag. (Hons.)/B.Sc. (Hons.) Ag. /B.Sc.(Hort.)/ B.Sc. (Hons.) Hort./B.Sc. (Hort.) Hons./B.Tech.(Biotech.)/ B.Sc. (Forestry) /B.Sc. (Hons.) Forestry) (10+2+4 years degree)	18	13			05
3	Plant Physiology	B.Sc.(Ag.)/B.Sc. Ag. (Hons.)/ B.Sc. (Hons.) Ag. /B.Sc.(Hort.)/ B.Sc. (Hons.) Hort./ B.Sc. (Hons.) Hort./ B.Sc. (Hort.) Hons./B.Sc.(Forestry)/ B.Sc. (Hons.) Forestry (10+2+4 years degree)	13	09		-	04
4	Genetics and Plant Breeding	B.Sc.(Ag.)/B.Sc. Ag. (Hons.)/ B.Sc. (Hons.) Ag./B.Sc.(Hort.)/B.Sc. (Hons.) Hort./B.Sc. (Hort.) Hons./B.Sc.(Forestry)/B.Sc. (Hons.) Forestry (10+2+4 years degree)	31	18	03	01	09
5	Plant Pathology	B.Sc.(Ag.)/B.Sc. Ag. (Hons.)/ B.Sc. (Hons.) Ag. /B.Sc.(Hort.)/ B.Sc. (Hons.) Hort./ B.Sc. (Hort.) Hons.B.Sc.(Forestry)/B.Sc. (Hons.) Forestry (10+2+4 years degree)	21	14	01	•	06

6	Seed Sciences and Technology	B.Sc.(Ag.)/B.Sc. Ag. (Hons.)/ B.Sc. (Hons.) Ag. / B.Sc.(Hort.)/ B.Sc. (Hons.) Hort./B.Sc. (Hort.) Hons./B.Sc.(Forestry)/ B.Sc. (Hons.) Forestry (10+2+4 years degree)	20	13	01		06
7	Agricultural Meteorology	B.Sc.(Ag.)/B.Sc. Ag. (Hons.)/ B.Sc. (Hons.) Ag. /B.Sc.(Hort.) /B.Sc. (Hons.) Hort./ B.Sc. (Hort.) Hons./B.Sc.(Forestry)/B.Sc. (Hons.) Forestry(10+2+4 years_degree)	13	09	-		04
8	Soil Science	B.Sc.(Ag.)/B.Sc. Ag. (Hons.)/ B.Sc. (Hons.) Ag./ B.Sc. (Hons.) Hort./ B.Sc. (Hort.) Hons.B.Sc.(Forestry)/B.Sc. (Hons.) Forestry(10+2+4 years degree)	23	15	01	•	07
9	Entomology	B.Sc.(Ag.)/B.Sc. Ag. (Hons.)/ B.Sc. (Hons.) Ag. /B.Sc.(Hort.) / B.Sc. (Hons.) Hort. / B.Sc. (Hort.) Hons.B.Sc.(Forestry)/B.Sc. (Hons.) Forestry (10+2+4 years degree)	18	13	-	-	05
10	Agronomy	B.Sc.(Ag.)/B.Sc. Ag. (Hons.)/ B.Sc. (Hons.) Ag. (10+2+4 years degree)	31	18	03	01	09
11	Agricultural Economics	B.Sc.(Ag.)/B.Sc. Ag. (Hons.)/ B.Sc. (Hons.) Ag./B.Sc.(Hort.)/B.Sc. (Hons.) Hort./B.Sc. (Hort.) Hons./B.Sc. (Forestry)/B.Sc. (Hons.) Forestry (10+2+4 years degree)	16	11	-		05
12	Agricultural Extension Education	B.Sc.(Ag.)/B.Sc. Ag. (Hons.)/ B.Sc. (Hons.) Ag. / B.Sc.(Hort.)/ B.Sc. (Hons.) Hort./ B.Sc. (Hort.) Hons./B.Sc.(Forestry)/B.Sc. (Hons.) Forestry/ B.F.Sc (10+2+4 years degree)	16	11	-		05
13	Agricultural Statistics	B.Sc.(Ag.)/B.Sc. Ag. (Hons.)/ B.Sc. (Hons.) Ag. /B.Sc.(Hort.)/ B.Sc. (Hons.) Hort./ B.Sc. (Hort.) Hons./ B.Sc.(Forestry)/B.Sc. (Hons.) Forestry(10+2+4 years degree) with mathematics as a subject at 10+2 level	11	08	ũ	540	03
	Total		247	163	09	02	73

B

1	Agri Business Management	Bachelor's / or Master's degree in Agriculture or allied disciplines of Agriculture, Agril. Engg./Dairy Science/Dairy Technology/Fisheries/Food Science/ Food Technology/Forestry/ Home Science/ CommunityScience/VegetableS cience/Horticulture/Veterinary Science	71	35	15		21
	College of Agricult	ure, Azamgarh Campus					
1	Agricultural Economics	B.Sc.(Ag.)/B.Sc. Ag. (Hons.)/ B.Sc. (Hons.) Ag./B.Sc.(Hort.)/B.Sc. (Hons.) Hort./B.Sc. (Hort.) Hons./B.Sc. (Forestry)/B.Sc. (Hons.) Forestry (10+2+4 years degree)	02	02	•	-	
2	Agricultural Extension Education	B.Sc.(Ag.)/B.Sc. Ag. (Hons.)/ B.Sc. (Hons.) Ag. / B.Sc.(Hort.)/ B.Sc. (Hons.) Hort./ B.Sc. (Hort.) Hons./B.Sc.(Forestry)/B.Sc. (Hons.) Forestry/ B.F.Sc (10+2+4 years degree)	02	02	•		
	Total		04	04		*	-
	College of Horticult	ture & Forestry					
1.	Vegetable Science	B.Sc.(Ag.)/B.Sc. Ag. (Hons.)/ B.Sc. (Hons.) Ag. / B.Sc. Hort./ B.Sc. (Hons.) Hort./ B.Sc. (Hort.) Hons. (10+2+4 years degree)	23	14	02	-	07
2	Fruit Science	B.Sc.(Ag.)/B.Sc. Ag. (Hons.)/ B.Sc. (Hons.) Ag. / B.Sc. Hort./ B.Sc. (Hons.) Hort./ B.Sc. (Hort.) Hons. (10+2+4 years degree)	23	14	02		07
3	Post-Harvest Management	B.Sc.(Ag.)/B.Sc. Ag. (Hons.)/ B.Sc. (Hons.) Ag. / B.Sc. Hort. / B.Sc. (Hons.) Hort./ B.Sc. (Hort.) Hons. (10+2+4 years degree)	10	07	-	S.E.	03
4	Floriculture and Landscaping	B.Sc.(Ag.)/B.Sc. Ag. (Hons.)/ B.Sc. (Hons.) Ag. / B.Sc. Hort./ B.Sc. (Hons.) Hort./ B.Sc. (Hort.) Hons. (10+2+4 years degree)	10	07	-	6 <u>2</u>)	03
5	Silviculture and Agroforestry	B.Sc. Forestry/ B.Sc. (Hons) Forestry /B.Sc. Hort./ B.Sc. (Hons.) Hort./ B.Sc. (Hort.) Hons./B.Sc.(Ag.)/B.Sc. Ag. (Hons.)/ B.Sc. (Hons.) Ag. (10+2+4 year Degree)	17	12	=		05
	Total		83	54	04	I	25
	MCAET, Ambedkar	Nagar					
1	Soil and Water Conservation Engineering	B.Tech. Agril. Engg. /Mechanical/Civil/Elect./Electro nics	05	03	- (car	3 - 3	02



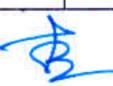
2	Irrigation and	B.Tech. Agril. Engg.	05	03			02
2	Drainage Engineering	/Mechanical/Civil/Elect./Electro	03	U3	-	-	UZ
3	Processing and Food Engineering	B.Tech. Agril. Engg. / Agric. & Food Engg./Mechanical/Civil/Elect./El ectronics/Food Engg./Process and Food Engg./Chemical Engg.	05	03	-	•	02
4	Farm Machinery and Power Engineering	B.Tech. Agril. Engg./ Mechanical/Civil/Elect./Electron ics/Production Engg.	05	03	-	-	02
5	Renewable Energy Engineering	B.Tech. Agril. Engg./ Agric. & Food Engg./Mechanical/Civil/Elect./El ectronics/Production Engg./Food Engg./Process and Food Engg.	05	03		-	02
	Total		25	15	_		10
	College of Commun	nity Science				ADEL T	
1	Food And Nutrition	B.Sc.(H.Sc.)/B.Sc. Home Science (Hons.)/B.Sc. (Hons.) Community Science/ B.Sc. (Hons.) Food Nutrition & Dietetics (10+2+4 years degree) 3- year Bachelor degree holders are not eligible	05	03	.=	-	02
2	Human Development and Family Studies	B.Sc.(H.Sc.)/B.Sc. Home Science (Hons.)/B.Sc. (Hons.) Community Science(10+2+4 years degree)3- year Bachelor degree holders are not eligible	03	02	-		01
3	Resource Management and Consumer Science	B.Sc.(H.Sc.)/B.Sc. Home Science (Hons.)/B.Sc. (Hons.) Community Science(10+2+4 years degree)3- year Bachelor degree holders are not eligible	03	02	-	<u>r</u>	01
4	Apparel and Textile Science	B.Sc.(H.Sc.)/B.Sc. Home Science (Hons.)/B.Sc. (Hons.) Community Science(10+2+4 years degree) 3- year Bachelor degree holders are not eligible	03	02	-	7	01
5	Extension Education and Communication Management	B.Sc.(H.Sc.)/B.Sc. Home Science (Hons.)/B.Sc. (Hons.) Community Science/ B.Sc. (Hons.) Food Nutrition &Dietetics (10+2+4 years degree) 3- year Bachelor degree holders are not eligible	03	02	-	<u>.</u>	01



	College of Veterina	ry Science and Animal Husbandry					
1	Veterinary Biochemistry	B.V.Sc. & A. H.(10+2+5 years/10+2+5½ years Degree) with OGPA 5.50 (5.00 for SC/ST) out of 10. The candidates must be registered with VCI, New Delhi or State Veterinary Council	04	03	3 = %	2	01
2	Veterinary Anatomy	-do-	03	02	(4)	-	01
3	Animal Reproduction Gynaecology and Obstetrics	-do-	07	05	2=25	-	02
4	Veterinary Medicine	-do-	07	05	8 5 8	-	02
5	Veterinary Parasitology	-do-	03	02	2.0	-	01
6	Veterinary Pathology	-do-	05	03	9 4 0	-	02
7	Veterinary Microbiology	-do-	03	02	157	-	01
8	Veterinary Surgery and Radiology	-do-	08	06	(값)	3	02
9	Veterinary Public Health and Epidemiology	-do-	03	02	-	3	01
10	Animal Genetics and Breeding	-do-	03	02	-	-	01
11	Animal Nutrition	-do-	07	05	:#E(-	02
12	Veterinary Physiology	-do-	04	03	-	8 3	01
13	Livestock Production and Management	-do-	06	04		-	02
14	Veterinary Extension Education	-do-	04	03		-	01
	Total		67	47	-	-	20
	College of Fisheries						
1	Fisheries Resource Management	B.F.Sc. (10+2+4 year Degree)	07	05	641	98	02



2	Aquaculture	B.F.Sc. (10+2+4 year Degree)	07	05	-	-	02
	Total		14	10			04
		Total Master's Programme	528	339	28	02	159
Nun	ber of Seats Ph	.D. Degree Programme A	Academic '	Year 2025	-26	1	
S.N.	Course Name	Essential Qualification	Total Intake of	Total Seat U	JPCATET.	-2025	ICAR Quota Seats 30%
			the University	Normal	Paid	NRI	
	College of Agricultu	ire				.L	
1	Genetics and Plant Breeding	M. Sc.(Ag.) in Gen. & Pl. Breeding (10+2+4+2 Degree Programme)	15	08	02	2	05
2	Seed Sciences and Technology	M. Sc.(Ag.) in Seed Science & Technology (10+2+4+2 Degree Programme)	04	03	-		01
3	Plant Pathology	M.Sc. (Ag.) in Plant Pathology(10+2+4+2 Degree Programme), (M.Sc.(Ag.) in Plant Protection degree holders are not eligible)	10	07	-	-	03
4	Entomology	M.Sc. (Ag.) in Entomology (10+2+4+2 Degree Programme) (M.Sc.(Ag.) in Plant Protection degree holders are not eligible)	07	05	-		02
5	Biochemistry	M. Sc. (Ag.) in Ag. Biochemistry / M.Sc. Biochemistry (10+2+4+2 Degree Programme)	04	03	-	-	01
6	Plant Physiology	M. Sc.(Ag.) in Plant Physiology/M.Sc. (Ag.) in Crop Physiology (10+2+4+2 Degree Programme)	04	03	2		01
7	Molecular Biology and Biotechnology	M.Sc. Ag. Biotechnology/ M.Sc.Biotechnology/M.Tech.(Bio technology) (10+2+4+2 Degree Programme)	07	05	-		02
8	Agricultural Meteorology	M.Sc.(Agril. Meteorology)/ M.Sc. (Ag.) in Agril. Meteorology (10+2+4+2 Degree Programme)	03	02	<u> </u>	0.00	01
9	Agronomy	M.Sc. (Ag.) Agronomy (10+2+4+2 Degree Programme)	11	06	02	N ₂ S	03
10	Soil Science	M. Sc.(Ag.) in Soil Science & Agril. Chemistry / M.Sc. (Ag.) in Soil Science (10+2+4+2 Degree Programme)	10	06	01	•	03
11	Agricultural Economics	M.Sc. (Ag.) in Agril. Economics / M.Sc. (Ag.) in Agril. Economics & Management (10+2+4+2 Degree Programme)	06	04	-	25#0	02



	MCAET, Ambedkar	Nagar					
	Total		31	22		-	09
5	Silviculture and Agroforestry	M.Sc. Forestry/ Agro- forestry/M.Sc.(Forestry) Silviculture and Agroforestry (10+2+4+2 Degree Programme)	06	04	2	-	02
4	Floriculture and Landscaping	M.Sc.(Floriculture and Landscaping) (10+2+4+2 Degree Programme)	01	01		-	S=31
3	Post-Harvest Management	M.Sc.(Post Harvest Management) (10+2+4+2 Degree Programme)	02	01	452	:= .	01
2	Fruit Science	M.Sc.(Ag.) Horticulture/M.Sc.(Ag.) Horticulture (Fruit Science)/M.Sc. (Fruit Science) (10+2+4+2 Degree Programme)	11	08	2		03
1	Vegetable Science	M.Sc.(Ag.) Horticulture/M.Sc.(Ag.) Horticulture (Vegetable Science),/M.Sc. Horticulture (Veg. Sci.) /M.Sc. (Vegetable Science)(10+2+4+2 Degree Programme)	11	08			03
1	*Ph.D. in Agri- Business Management	Master in Agri-Business Management/Agricultural Marketing & Cooperation/Business Management with specialization in Agriculture Note: Master OGPA 6.50 (5.50 SC/ST) out of 10 or equivalent	02	01	-		01
	Total	(10 · 2 · 4 · 2 Degree Flogramme)	91	59	05	-	27
13	Agricultural Statistics	M.Sc. in Agril. Statistics/M.Sc.(Statistics) (10+2+4+2 Degree Programme)	03	02	-	-	01
12	Agricultural Extension Education	M.Sc. (Ag.) in Agril. Extension / Extension Education/Agril.Communication/ Agril. Extension and Comm. (10+2+4+2 Degree Programme)	07	05	55X)		02



1	Processing and Food Engineering	M.Tech. in Agril. Engg. With specialization in Agricultural	03	02	-	-	01
		Processing Engineering/ Processing & Food Engg./Food Process Engg /Dairy Engineering/Post Harvest Technology (With specialization					
		in Post-Harvest Engineering and Technology)/ Renewal Energy Engineering					
2	Farm Machinery and Power Engineering	M.Tech in Agricultural Engineering/ Mechanical Engineering with specialization in Farm Machinary and Power/ Renewable Energy	03	02	(-)	-	01
	Total		06	04	-	-	02
	College of Commun	nity Science				·	1
1	Food And Nutrition	M.Sc. in Food and Nutrition/ M.Sc. in Food Science and Nutrition/ M.Sc. in Food	03	02	-	5.	01
		Nutrition and Dietetics and M.Sc. in the concerned subject (10+2+4+2 Degree Programme)M.A. (Home Science/Community Science)					
		degree holders are not eligible					
2	Human Development and Family Studies	M.Sc. (Home Science (HDFS)/ Community Science (HDFS) in the Concerned Subject(10+2+4+2 Degree Programme) M.A. (Home Science/Community Science) degree holders are not eligible	02	01	•	8.76	01
3	Resource Management and Consumer Science	M.Sc. (Home Science) Resource Management and consumer Science/M.Sc.(Community Science (Resource Management and consumer Science) in the Concerned Subject(10+2+4+2 Degree Programme) M.A. (Home Science/Community Science) degree holders are not eligible	02	01		-	01
	Total		07	04	-	-	03
	College of Veterinar	y Science and Animal Husbandry					
1							
•	Veterinary Biochemistry	M.V.Sc. in the Concerned Subject	02	01	-	1200	01
2	Animal Reproduction Gynaecology and Obstetrics	-do-	04	03	-		01
3	Veterinary	-do-	04	03	-	7=X	01



		Total Ph.D. Programme	179	118	05	-	56	
	Total		04	03	-	•		01
2	Aquaculture	M.F.Sc. in Concerned Subject (10+02+04+02 years Degree Programme)	01	01	170	5		
1	Fisheries Resource Management	M.F.Sc. in Concerned Subject (10+02+04+02 years Degree Programme)	03	02) = 0		01	
	College of Fisheries		38	25	, <u>.</u>	,		13
- 18.00	Anatomy		38	25				1
13	Veterinary Physiology Veterinary	-do- -do-	02	01	-	-	01	
12	Veterinary Extension Education	-do-	02	01		=	01	
11	Livestock Production and Management	-do-	04	03		S	01	
10	Animal Nutrition	-do-	03	02	17.5	-	01	
9	Animal Genetics and Breeding	-do-	03	02	540		01	
8	Veterinary Public Health and Epidemiology	-do-	02	01	341		01	
7	Veterinary Surgery and Radiology	-do-	04	03		.7:	01	
6	Veterinary Microbiology	-do-	02	01	450	-	01	
5	Veterinary Pathology	-do-	03	02		-	01	
4	Veterinary Parasitology	-do-	02	01	% <u>2</u> €	-21	01	

315:1836 To consider and approve the proposal of Dean, College of Community Science to re-start the Laboratory Nursery School at earliest possible.

The proposal of Dean, College of Community Science to re-start the Laboratory Nursery School was placed for consideration and approval of Academic Council. The agenda approved as such.

Supplementary Agenda

The proposal of Dean, College of Agriculture to start Ph.D. degree programme in the Dept. of Agri-Business Management from the session 2025-26.

The Academic Council discussed the proposal and unanimously agreed to start Ph.D. degree programme in the Dept. of Agri-Business Management with 02 seat from the session 2025-26.

Discussion on Notification of UGC, New De!hi, 2025 regarding the Draft of minimum qualification for Appointment and Promotion of Teachers and Academic Staff and Measures for the Maintenance of Standards in Higher Education

Hon. Vice Chancellor directed to all Deans/Assoc. Dean to review the such draft with the faculties and submit the comments on such draft at earliest so that suggestions may be sent to UGC.

315:1839 Hon. Vice Chancellor suggested that where Professors are available in the department, there will be rotational Headship for encouraging the teaching and research work of the department.

Members of Academic Council agreed with the suggestion of Hon. Vice Chancellor.

Hon. Vice Chancellor suggested to increase additional examination fee Rs. from Rs. 2000/- to 5000/- per course for unscheduled/out of semester courses.

The Academic Council had approved Rs. 2000/- per course for unscheduled/out of semester courses for repeater students it its meeting 298:1736. The Academic Council agreed with the suggestion of Hon. Vice Chancellor to increase additional examination fee Rs. 5000/- instead of Rs. 2000/- per course for unscheduled/out of semester courses.

315:1841 The Director, IQAC has suggested to create the post of Dean at College of Agriculture.

The Director, IQAC pointed out that during ICAR Peer Team visit, the Chairman and members has raised a query on the post of Dean which was not created at the time of sanctioning of the college, that was a part of Model Act of ICAR. Keeping in view of above, members agreed to raise a post of Associate Dean to Dean, College of Agriculture, Azamgarh and send a letter to the Govt. to create the post of Dean as per ICAR Model Act.

Registrar/Secretary 3-1.25
Academic Council

Approved

Vice-Chancellor/Chairman Academic Council