MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, MCAER BUILDING, 132/B BHOSALE NAGAR, PUNE-411 007.

INFORMATION BULLETIN



COMMON ENTRANCE TEST FOR ADMISSION TO POST GRADUATE PROGRAMME IN STATE AGRICULTURAL UNIVERSITIES OF MAHARASHTRA 2019-20

1. Introduction

The Maharashtra Council of Agricultural Education and Research (MCAER) Pune is a statutory body which has been constituted under Section 12 of Maharashtra Agricultural Universities (Krishi Vidyapeeth) Act 1983. In exercise of the powers conferred upon MCAER vide provision in the Proviso (g) of Sub-section 3 of Section 12 of the Act, common regulations for admissions to various degree programmes in State Agricultural Universities have been formulated.

Directions have been given by the MCAER vide its Resolution No. 23/75/2008 dt. 27th March, 2008 to conduct the Common Entrance Test (CET) through the Maharashtra Agricultural Universities Examination Board (MAUEB), Pune for admission to various Post Graduate Programmes in the State Agricultural Universities (SAUs) in Maharashtra.

The eligibility for admission and the CET has been given in the subsequent sections. Admission will be given on the basis of merit formulated by considering weightage of **70 per cent of the CET** score and **30 per cent of the CGPA** of the student. Other weightages if any and the reservations as per guidelines of the State Government will also be considered. The details regarding these are to be seen in the õAdmission Prospectus 2019-20 ö to be published by the MCAER. The minimum cut off will be of 55 per cent (Fifty Five) of total merit for PG admission.

2. Post Graduate Courses

The Post Graduate Courses, along with eligibility, available in the SAUs are as given in the Table below. For information regarding availability of courses, number of seats at a particular PG centre / University; please refer to the õAdmission Prospectusö published by the MCAER.

Sr. No.	Degree Course	Duration	Credits	Eligibility		
1.	M.Sc. (Agri.)	2 years (4 semesters)	55	B. Sc. (Agri.) or B. Sc. (Hort.) or B. Sc. (Forestry) or B. Sc. (Agril. Biotechnology) or B.B.M. (Agri.) / B.Sc. (A.B.M) or B. Tech. (Food Sc. / Tech.)* or B. Tech. (Agri. Engg.)** or B. Sc. (Hon.) Home Science***of Agril. university only and passing CET for M.Sc. (Agri.) ****B.Sc(Animal Husbandry.		
2.	M.Sc. (Hort.)	2 years (4 semesters)	55	B. Sc. (Hort.) or B. Sc. (Agri.) or B. Sc. (Forestry) of Agril. university only and passing CET for M.Sc. (Hort.)		
3.	M.Sc. (Forestry)	2 years (4 semesters)	55	B. Sc. (Forestry) or B. Sc. (Agri.) or B. Sc. (Hort. of Agril. university only and passing CET for M.Sc. (Forestry)		
4.	M.Sc. (Home Science)	2 years (4 semesters)	55	B.Sc. (Hon.) Home Science of Agril. university only and passing CET for M.Sc. (Home Sc.)		
5.	M.Sc. (Agril. Biotechnology)	2 years (4 semesters)	55	B. Sc. (Agril. Biotechnology) or B. Sc. (Agri.) or B. Sc. (Hort.) or B. Sc. (Forestry) or B. Tech. (Food Sc./Tech.) of Agril. university only or B.F.Sc. and passing CET for M.Sc. (Agril Biotechnology.)		
6.	M.Tech. (Agri. Engg.)	2 years (4 semesters)	55	B. Tech. (Agri. Engg.) of Agril. university only and passing CET for M.Tech. (Agril. Engg.)		
7.	M.Tech. (Food Tech.)	2 years (4 semesters)	55	B. Tech. (Food Sc./Tech.) of Agril. university only and passing CET for M.Tech. (Food Tech.)		
8.	M.B.A. (Agri)	2 years (4 semesters)	55	B.B.M. (Agri.) / B. Sc. (A.B.M) or B. Sc. (Agri.) or B. Sc. (Hort.) or B. Sc. (Forestry) or B. Sc. (Agril. Biotechnology) or B. Tech. (Food Sc./Tech.) or B. Tech. (Agri. Engg.) or B.Sc. (Hon.) Home Sc. of Agril. university only or B.F.Sc.and passing CET for M.B.A. (Agri.)		

9.	M.F.Sc.	2 years (4 semesters)	55	B.F.Sc. and passing CET for M.F.Sc.
10.	M.Sc. (P.H.M.)	2 years (4 semesters)	55	B.B.M. (Agri.) / B. Sc. (A.B.M) or B. Sc. (Agri.) or B. Sc. (Hort.) or B. Sc. (Forestry) or B. Sc. (Agril. Biotechnology) or B. Tech. (Food Sc./Tech.) or B. Tech. (Agri. Engg.) or B.Sc. (Hon.) Home Sc. ,B.Sc. (Animal Husbandry) of Agril. university only or B.F.Sc. and passing CET for Post Harvest Management (PHM).

* For M.Sc. (Agri) Food Science & Technology B.Tech (Food Science / Tech.) students are also eligible. ** For M.Sc. (Agri) Agril. Meteorology, B.Tech. (Agril. Engg.) students are also eligible.

*** For M.Sc. (Agri) Agril. Extension Education, B. Sc. (Hon.) Home Science students are also eligible. **** For M. Sc. (Agri) Animal Husbandry, B.Sc.(Animal Husbandry) students are also eligible.

3. Eligibility for CET

Only the students possessing the required qualifying degree as per the eligibility as laid down in the Table under point No. 2 or those students who have appeared for the final degree examination for the Academic year 2019-20 are eligible to appear for the CET 2019. A student is eligible to take as many CETs as per his / her eligibility for admission to a PG programme. For example, a student of B.Sc. (Agril. Biotechnology) can appear for CETs for M.Sc. (Agril. Biotechnology), M.Sc. (Agril.) and M.B.A. (Agril.). However, he / she will have to submit only one application form (printout of online application) along with only one challan common towards examination fees @ fixed rate for each CET and with only one set of necessary enclosures as mentioned in õInstructions for filling the application formö. In such cases the student will have to indicate other / additional options of subject streams (As per eligibility) in which CET is to be given.

4. Examination Fees

A candidate will have to pay the examination fees through using **State Bank of India collect link** which is available on www.mcaer.org, after submitting online application form you should take acknowledgment. Required fee is printed on your acknowledgment. Student should follow the instructions given on acknowledgment, No separate challan is required for each CET. The student wishes to appear for more than one CET, acknowledgment indicates the Exam Fees that will be in the multiple of no. of CETs the student has applied for.

The examination fees **per CET** to be paid through challan will be as follows:

1. Students belonging to Open category	:	Rs. 600/- per CET
2. Students belonging to Reserved category*	:	Rs. 300/- per CET
3. Students belonging to Other States	:	Rs. 600/- per CET

* For claiming concession in examination fees under reserved category, the candidate must mention their category (in case of SC, ST candidates and other reserved category comprises also SEBC Category). In absence of reserved category the candidate belonging to reserved category will be treated as "Open category" for the purpose of CET and should pay the fees of Rs. 600/- per CET. <u>The candidate should not send hard copy of application form, challan and supporting documents to the MAUEB, Pune office.</u>

5. Important Dates and Examination Schedule

a) Date of Notification	: 12.12.2018
b) Last date of Submission online Applications	: 10.01.2019
c) Last date of payment of fees through SBI collect	: 14-01-2019
d) Date of Display of eligible candidates list	: 24-01-2019
e) Date of Grievances for Student	: 25.01.2019 to 31-01-2019
f) Date of Display of final eligible candidates list	: 07.02.2019
g) Date of Online Admit Cards*	: 08.03.2019

^{*} To be issued to those candidates whose applications have been accepted online. Admit Cards will be available online on www.mcaer.org.

Candidate should click on Online Admit Card link to download Admit Card.

- Time (hrs.) Time (hrs.) Sr.No. **Day/Date** 10.00 to 12.00 15.00 to 17.00 1. Sat 16.03.2019 Post Harvest Management Agril.Engg., Agril.Bio.Tech. 2. Sun 17.03.2019 Agriculture, Fisheries Forestry, Home Science 3. Mon 18.03.2019 Horticulture, Food Science Agril. Business Management
- 6) Examination Programme:

7) Display of Answer Keys of all streams (On MCAER Website) : 03.04.2019

8) Declaration of Results (On MCAER Website) :08.04.2019

6. Scheme of Examination

- 1) The Examination will be conducted for 200 marks. The question booklet will contain 200 questions of objective nature along with answers in the form of 4 alternatives. There will not be any choice or option for questions, i.e. all questions have to be answered.
- 2) The candidate has to mark the correct answer by blackening the corresponding circle against the serial number of the question in the OMR sheet with black ink ballpoint pen only. Out of four circles provided for selection of an answer against a question, the candidate should fill up only one circle completely. CHANGING AN ANSWER IS NOT ALLOWED. The candidate must fully satisfy himself about the accuracy of the answer before darkening the appropriate circle. The answer once marked is final; any change in the option once marked, done by any method, will amount to an invalid/incorrect response. Each correct answer will be given one mark. There shall be no negative marking for wrong answers.
- 3) Scratching, overwriting, tick mark and multiple answers will be considered as wrong answers and no marks will be allotted to them.
- 4) Verification of marks obtained is permitted on applying for the same in writing within 7 days from the date of declaration of the result along with a D.D. for Rs.300/- drawn in the name of **Controller, MAUEB, Pune (Payable at Pune)**
- 5) The Carbon Copy of OMR sheet will be provided at the time of CET Examination.

7. Syllabus of Examination

The syllabus for the CET in each of the stream is given in ANNEXURE õBö to õKö. The syllabus of each stream forms the entire theory programme of the concerned stream. However, in case of the streams to which students of other eligible streams are allowed to appear, 80 per cent questions will be set on the basis of syllabus of the main stream and 20 per cent from the syllabi of other eligible streams. The weightages of other eligible streams have been given in the syllabus of the concerned stream.

8. Examination Centres

The examination centres for conduct of the CET are given in the Table below. The candidate may choose any one centre convenient to him / her. However, the right of allotment of the centre is reserved by the Board. Requests for change of examination centre will not be entertained.

Sr. No.	Name of the Centre	Streams	Center Code No.
1.	College of Agriculture, Pune	All Streams except Fisheries & Home Science	01
2.	College of Agriculture, Akola	All Streams except Fisheries & Home Science	02
3.	College of Agriculture, Nagpur	All Streams except Home Science	03
4.	College of Agriculture, Parbhani	All Streams	04
5.	College of Agriculture, Dapoli	All Streams except Home Science	05
6.	Dr. A.S. College of Agril. Engg., Rahuri	All Streams except Forestry, Home Sc. & Fisheries	06
7.	College of Agriculture, Kolhapur	All Streams except Forestry, Home Sc. , Fisheries	07
8.	College of Agriculture, Dhule	All Streams except Forestry, Home Sc. & Fisheries	08
9.	College of Agriculture, Latur	Only for Agriculture, Agri. Business Management, Agril. Biotech. & PHM	09
10.	College of Agriculture, Badnapur	Only for Agriculture & PHM	10
11.	College of Agricultural Biotechnology, Yavatmal	Only for Agriculture	11
12.	College of Agriculture, Karad	Only for Agriculture	12
13.	College of Agriculture, Ambejogai	Only for Agriculture	13
14.	College of Agriculture, Sonapur (Gadchiroli)	Only for Agriculture	14

9. Conduct and Discipline

- 1. Failure of the candidate in making full and correct statements in the application form and / or suppression of any information would lead to disqualification of the candidate. Such candidate will be debarred from the examination / entire selection process.
- 2. The candidate has to scrupulously follow the instructions given by the supervisors / invigilators at all the stages of examination. Violation of such instructions may lead to cancellation of candidature.
- 3. Calculators, books, notebooks, written notes, pagers, mobile phones and any other electronic gadget is not allowed inside the examination hall. Candidate found possessing such material

whether in use or otherwise will be deemed to have been using unfair means and would be liable to disciplinary action.

- 4. Adopting unfair means or engaging in malpractice in the examination shall render a candidate liable for punishment under õMaharashtra Prevention of Malpractices Act, Universities, Board and Other Specified Examination Act, 1982ö and disqualify him / her.
- 5. Any issue not dealt with here-in above will be dealt with, when arising, fully and finally by the competent authority.
- 6. Student should produce his identity proof at the time of examination issued by any Govt. authority like Aadhar Card, Election Card, Pan Card, Driving License, College ID, etc.

10. FILLING AND SUBMITTING THE APPLICATION FORM

Candidates are required to take help of the following instructions for filling the online application form.

Please note that if the candidates commit any mistake in filling the online Application Form, it can not be corrected by this office. The Board will have no responsibility of any kind for such forms. In such cases, the candidate will not have any right to claim the refund of examination fees. Keep a photocopy of the printout of online application form for future correspondence if any.

- i) Satisfy yourself about the eligibility requirements for appearing in the examination.
- ii) Applicants should have a valid Email ID and Mobile Number.
- iii) Before filling Online Application Form download Information Bulletin of PG-CET- 2019 and read the same carefully.
- iv) The applicants must possess the required criteria and education qualification as mentioned in the Information Bulletin of PG- CET- 2019.

v) <u>Fill the Online Application Form carefully and upload scanned photograph and signature (Size of Photograph and Signature should not be greater than 35KB, 30KB respectively). Please remember the password given by you. It is important for further Login.</u>

- vi) There is provision to make changes in the Online Application Form, before click on Submit Button. Candidate should verify the correctness of entries made in Online Application Form. There is no provision to make changes in the Online Application Form ones Submit Button clicked.
- vii) After submitting Online Application Form, candidate should take printout of Acknowledgement.
- viii) Required fee is printed on Acknowledgement.
- ix) Pay the fee through online payment facility using **State bank of India collect link** which is available on www.mcaer.org after one working day of filling online Application Form.
- x) Payment can be done through various options, State Bank ATM-cum-Debit Card / SBI Branches (Cash/Transfer) /Other Bankøs Debit Card and Credit Card / NEFT/RTS/GRPT through Branch/Internet Banking of other Banks / Online GRPT through INB/ATM Card of our Associate Banks / Mobile Banking and Self Service Kiosk.
- xi) For Online Payment facility Link is available on www.mcaer.org

Note: <u>Mere appearing to CET is not claim for admission to any faculty without</u> <u>prescribed eligibility to the respective faculty. The admission will be given on</u> <u>verification of original documents as per the eligibility criteria of respective</u> <u>degree programme.</u>

Maharashtra Agricultural Universities Examination Board, Pune. Common Entrance Test 2019 for Admission to P.G. Programme 2019 - 20 Application Form

1. Name of the Candidate :	Surname	Candidate First Name	Father Name	Mother Name
(In Capital Letters)	(Surname only)	(First Name)	(Father's Name)	(Mother's Name)
2. Date of Birth : (dd/mm/yyyy)	DD/MM/YYYY	3. Gend	ler: © I	Male 🔘 Female
4. Nationality :	[SELECT] 💌	5. Categ	gory : [SE	LECT] 💌
6. Address for Communication :	Address line 1			
	Address line 2			
	Address line 3			
City :	City	Pin Cod	e: Pin	
District :	District	State :	[SEI	LECT]
7. STD Code :	STD Code	8. Tel. N	lo.: Tel.	No.
9. Mobile Number :	Mobile Number	10. E-M	ail: E-m	ail
11. Degree Code at Graduation :	[SELECT]			•
12. Subject Stream/s in which CET is to be given :	(A-Agriculture,B-Hon (E-Food Tech.,F-Hom	D E F ticulture,C-Forestry,D-Agr e Science,G-Fisheries,H-A agement,J-Post Harvest I	il.Engineering,) gril.Biotechnology,)	
13. Exam Center :	[SELECT]			•
14. UG College Code :	UG College Cod (Refer	Information Bulletin for U	JG college code)	
15. Upload Photograpgh and Signature.				
	=> Size => Heig	tion For Photograph: of photograph must be les: th of photograph must be 2 th of photograph must be 2	300 pixel.	re
	=> Size => Heig	tion For Signature: of Signature must be less tl th of Signature must be 150 th of Signature must be 200) pixel. Click her	17F0 19
16. Choose your password				
Password : Password				
Re-Enter Password : Re-Password				
Declaration - I				
 I hereby declare that the above informal information herein is found to be incorr 2. I have read and understood all the provi 	ect or incomplete, my applica	ation form will be rejected	d / admission will be canc	
		Sub	nit	

INSTRUCTIONS TO FILL-UP THE ONLINE APPLICATION FORM 1. Name of the Candidate:

Candidates should enter his/her name in capital letters.

In 1st text box type your Surname. In 2nd text box type your First Name. In 3rd text box type your Father's Name.

In 4 th text box type your mother name

Incorrect names may invite rejection of candidature at any stage.

For Example:	1. Name of the Candidate :	PATIL YUYRAJ		BABURAO	Mother Name
	(In Capital Letters)	(Surname)	(First Name)	(Father's Name)	(Mother Name)

2. Date of Birth:

Select your Month, Year and Date from Calendar which will appear after clicking on Date of Birth text box.

For Example:	2. Date of Birth :		03/01/1982						
	(dd/mm/yyyy)		<	Jan		198	32 _	-	>
			Su	Mo	Tu	We	Th	Fr	Sa
		52	27	28	29	30	34	1	2
		1	з	4	5	6	7	8	9
			2	2 10 11 12 13 14	15	5 16			
		3	17	18	19	20	21	22	23
		4	4 24 25 26 27	27	28	28 29	30		
		5	31	1	2		4	5	6
					С	lear			

3. Gender:

Select your Gender from Male or Female Buttons.

⊙ Male O Female For Example: 3. Gender :

4. Nationality:

Select your Nationality from Nationality Combo box.

For Example: 4. Nationality :

INDIAN	•
SELECT	
INDIAN	
NRI	

5. Category:

Select your Category from Category Combo box.

For Example:	5. Category :	[SELECT]
		[SELECT]
		01-Open
		02-SC
		03-ST
		04-OBC
		05-NT/DT
		06-SBC
6 Address for (ammunication	

6. Address for Communication:

Enter your Communication Address in Text Boxes provided.

For Example:

6. Address for Communication :	GAYTRI DHAM.		
	GANPATI MAND		
	TITAWALA		
City :	TITAWALA	Pin Code :	421301
District :	THANE	State :	MAHARASHTRA

7. STD Code:

Enter your STD Code number in Text Box provided.

For Example: 7. STD Code : 0251

8. Tel. No. :

Enter your Telephone number in Text Box provided.

For Example: 8. Tel. No. :

123456

9. Mobile Number:

Enter your Mobile number in Text Box provided.

For Example: 9. Mobile Number : 1234567890

10. E-Mail:

Enter your E-Mail Address in Text Box provided.

For Example: 10. E-Mail :

xyz@gmail.com

11. Degree code at graduation:

Select your Degree code at graduation from Combo box.

For Example:

11. Degree code at graduation :	[SELECT]
	A - Agriculture (B.Sc Agriculture) B - Horticulture(B.Sc Horticulture) C - Forestry (B.Sc Forestry) D - Agril, Engineering (B.Tech Agril, Engineering) E - Food Science/Tech. (B.Tech Food Science/Tech.) F - Hons Home Science (B.Sc Hons.Home Science) G - Fisheries (B.F.Sc Fisheries) H - Agril, Biotechology (B.Sc Agril, Biotechology) I - B.Sc. Agril, Business Management/Bachelor of Business Management(Agri)
	J - Animal Husbandry

12. Subject stream/s in which CET is to be given :

Select your Stream/s in which CET is to be given from Check boxes.

For Example :

12. Subject stream/s in	MA DB DC DD DE DF DG DH DI DJ
which CET is to be	(A-Agriculture,B-Horticulture,C-Forestry,D-Agril,Engineering,)
given :	(E-Food Tech_F-Home Science.G-Fisheries.H-Agril.Biotechnology.) (I-Agril.Business Management.J-Post Harvest Management)

13. Exam Center :

Select your choice of Examination Center from Combo box. Examination Centers are to be selected as per the available streams at these centers (Refer Sr. No. 8 of CET Bulletin)

For Example :

13. Exam Center :	(SELECT)
	(SELECT)
	01 College of Agriculture, Pune - (Al Streams except Fisheries and Home Sc.)
	02 College of Agriculture, Akola - (All Streams except Fisheries and Home S.c.)
	03-College of Agriculture, Nagpur (All Streams except Home Sc.) 04-College of Agriculture, Parbhani (All Streams)
	05-College of Agriculture, Paronani (All Streams) 05-College of Agriculture, Dapoli (All Streams except Home Sc.)
	05-Dr. A. S. College of Agril, Engo, Rahuri - IAI Streams except Forestry, Home Sc. and Fisheries)
	07-College of Agriculture, Kolhapur - (All Streams except Forestry, Home Sc. and Fisheries)
	08-College of Agriculture, Dhule - (All Streams except Forestry, Home Sc. and Fisheries)
	09 College of Agriculture, Latur - (Only for Agriculture, Agril Business Management Agril Biotech. and PHM stream)
	10-College of Agriculture, Badnapur (Only for Agriculture and PHM stream) 11-College of Bio - Technology, Yavatmal (Only for Agriculture)
	12-College of Agriculture, Karad ~ (Only for Agriculture)
	13-College of Agriculture, Ambejogai (Only for Agriculture)
	14-College of Agriculture, Sonspur (Gadchiroli) [Only for Agriculture]

14. UG College Code:

Enter your UG Degree College Code. (Annexure 'A')

For Example:

14. UG College Code : 101 (Refer Information Bulletin for UG college code)

15. Photograph and Signature :

Upload your recent Photograph and Singature.

For Example:

15. Upload Photograpgh and Signature.

Instruction For Photograph: => Size of photograph must be less than 35kb. => Height of photograph must be 300 pixel. => Width of photograph must be 200 pixel.

Instruction For Signature: => Size of Signature must be less than 30kb. -> Height of Signature must be 150 pixel. => Width of Signature must be 200 pixel.



After filling the Online application and click on submit button. <u>The candidate need not required to send hard copy of Online Application</u> <u>Form, Challan and supporting documents to the MAUEB, Pune office.</u>

ANNEXURE "A"

Code Numbers of Colleges in Four SAUs (M.S.)

Sr. No.	Degree Course	Name of College	Code No.
1.	B.Sc. (Agri.)	1. College of Agriculture, Shivajinagar, Pune- 411 005.	101
		2. College of Agriculture, Kolhapur	102
		3. College of Agriculture, Dhule	103
		4. College of Agriculture, Akluj Tal.Malshiras Dist.Solapur-413 101.	104
		5. College of Agriculture, Baramati At.Post. Shardanagar, Tal. Baramati, Dist.Pune-411 015.	105
		 College of Agriculture, Hingangaon Kd. Tal. Kadegaon Dist.Sangli-415 305. 	106
		 College of Agriculture, Udoji Maratha Boarding Campus, Gangapur Road, Nasik-422 013. 	107
		 Krishna College of Agriculture, Rethare, Post-Shivnagar-415 108, TalKarad Dist.Satara 	108
		 College of Agriculture, Sonai, Tal. Newasa Dist. Ahmednagar-414 105. 	109
		 K.K.Wagh College of Agriculture, Hirabai Haridas Vidyanagari, Amrutdham, Panchawati, Nasik-422 003. 	110
		11. College of Agriculture, Rajmachi, Tal. Karad Dist. Satara- 415 105.	111
		 College of Agriculture, Infront of Godavari Hospital Building, M.J. College Road, Jalgaon. 	112
		13. College of Agriculture, Ambi Tal. Maval Dist. Pune	113
		 College of Agriculture, Pujya Saneguruji Vidya Prasarak Mandal, Shahada Dist. Nandurbar-425409. 	114
		 Lokmangal College of Agriculture, At. Post. Wadala, Tal. Uttar Solapur Dist. Solapur-416 222. 	115
		16. College of Agriculture, Talsande, Tal. Hatkangale Dist .Kolhapur	116
		17. College of Agriculture, Muktainagar Dist. Jalgaon	117
		18. College of Agriculture, Phaltan, Dist. Satara	118
	_	19. College of Agriculture, Amalner, Dist. Jalgaon 20. Shramshakti College of Agriculture, Maldad, Dist.	119 120
	_	Ahmednagar 21. Sadguru College of Agriculture, Mirajgaon, Dist- Ahmednagar	121
		22. College of Agriculture, Dondaicha	122
	-	23. College of Agriculture, Loni	122
	-	24. College of Agriculture, Babhulgaon	123
	-	25. College of Agriculture, Ghargaon	124
	-	 26. Sharada College of Agriculture, Jainapur, Tal. Shiroli Dist. Kolhapur ó 416 101 	126
		27. College of Agriculture, Paniv, Tal. Malshiras Dist. Solapur ó 413 113.	127
		28. College of Agriculture, Nandurbar ó 425 412.	128
		29. College of Agriculture , Karad . Dist Satara	129
		30. College of Agriculture, Vadgaon Gupta (Vilad Ghat) Post MIDC Dist. Ahemadnagar	130

Sr. No.	Degree Course	Name of College	Code No.
		31. College of Agriculture, Malegaon Dist Nashik 423603	131
		32. Roshanji Shamanji College of Agriculter ,Nesari Tal Gandhinglaj Dist Kolhapur	132
		33. College of Agriculture, Bhanashiwra ,Tal Newasa Dist Ahemadnagar	133
		34. College of Agriculture, Halgaon (Central Campus MPKV, Rahuri.)	134
	_	25 College of Assistant Alert	201
		35. College of Agriculture, Akola	201
		36. College of Agriculture, Nagpur	202
		37. Shri Shivaji College of Agriculture, Amravati	203
		38. Anand Niketan College of Agriculture, Warora Dist.Chandrapur	204
		39. College of Agriculture, Darwha, Dist. Yavatmal	205
		40. Vivekanand College of Agriculture, Vivekanand Nagar (Hiwra Ashram) Tal.Mehkar Dist.Buldhana	206
		41. Swatantrya Vir Ganpatrao Ingle College of Agriculture, Jalgaon Jamod, Dist.Buldhana	207
		42. Ramkrishna Bajaj College of Agriculture, Pipri Wardha, Dist.Wardha	208
		 Marotrao Wadafale College of Agriculture, Gurunanak Nagar, Godhani Road, Yavtmal. 	209
		44. Dr. Rajendra Gode College of Agriculture, Buldhana.	210
		45. Shri. Sant Shankar Maharaj College of Agriculture, Pimpalkhuta, Dist-Amaravati	211
		46. Late R.G.Deshmukh College of Agriculture, Tiwsa, Dist- Amravati	212
		47. Shri. Samarth College of Agriculture, Deoulgaon Raja, Dist- Buldhana.	213
		48. College of Agriculture, Sonapur, Gadchiroli	214
		49. Manoharbhai Patel College of Agriculture, Hiratola, Dist. Gondia	215
		50. College of Agriculture, Umarkhed, Dist. Yavatmal	216
		51. Smt. Sumitrabai Andhare College of Agriculture, Shirla (Andhare), TalPatur, DistAkola.	217
		52. Sau. Vasudhatai Deshmukh College of Agriculture, Talegaon-Dashashar, DistAmaravati	218
		53. Shri. S.V.College of Agriculture, Kesalwada, DistBhandara	219
		54. S. F. College of Agriculture, Risod, DistWashim	220
		55. College of Agriculture, Konghara PostPimpari Tal Kelapur Dist. Yavatmal	221
		56. Kevalramji Harde College of Agriculture Chamorshi, Tal Chamorshi Dist Gadchiroli	222
		57. College of Agriculture, Amkheda Tal Malegaon Dist. Washim	223
		58. P.R. Pote(Patil)College of Agriculture, Kathora Road Amravati	224

Sr. No.	Degree Course	Name of College	Code No.
		59. Smt. Anusayabai Meghe College of Agriculure, Bhugaon Tal Dist Wardha	225
		60. College of Agriculture, Krishi Nagar, Parbhani-431 402.	301
		61. College of Agriculture, Latur	302
		62. College of Agriculture, Badnapur, Dist. Jalna	302
		63. College of Agriculture, Ambejogai, Dist. Beed	303
		64. College of Agriculture, Barshi Naka, Osmanabad	304
		65. Aditya College of Agriculture, Telgaon Road, Beed-431 122.	305
		66. Late Dadasaheb Patil College of Agriculture, Dahegaon, Tal.	307
		Vaijapur Dist. Aurangabad	307
	-	67. College of Agriculture, Naigaon Bazar Tal. Naigaon (kh.) Dist.Nanded	308
		68. Late Rajiv Gandhi College of Agriculture, Jintur Road, Parbhani-431 401.	309
		69. Shri Chhatrapati Shahu, Phule, Ambedkar College of Agriculture, Ashti, Dist. Beed	310
		70. College of Agriculture, Kanchanwadi, Paithan Road, Tal. & Dist. Aurangabad	311
		71. S.D.M.V.Møs College of Agriculture, Georai Tanda, Aurangabad ó 431 003.	312
		72. College of Agriculture, Udgir, Dist. Latur - 413 517	313
		73. College of Agriculture, Kharpudi, Dist-Jalana ó 431 203	314
		74. College of Agriculture, Tondapur, Dist- Hingoli-431 701	315
		75. Vasantrao Naik Gramin College of Agriculture, Neharu Nagar, Nagalgaon, Tal. Kandhar, Dist- Nanded 6 431 742.	316
		76. College of Agriculture, Markhel	317
		77. College of Agriculture, Selu	318
		78. College of Agriculture, Pathri	319
		79. College of Agriculture, Khandala	320
		80. College of Agriculture, Golegaon	321
		81. College of Agriculture, Varpud	322
		82. College of Agriculture, Gandheali	323
		83. Sau. K.S.K. alis Kaku College of Agriculture, Mhasoba Phata, Nagar Road Beed 431122	324
		84. College of Agriculture Alani(Gadpati) Tal. Dist Osmanabad	325
		85. Dr Gangadhar Pathrikar College of Agriculture Pathri Tal Phulambri Dist Aurangabad	326
		86. Ranganath Maharaj College of Agriculture ,NahavaTah. Dist. Jalna	327
		87. College of Agriculture, Dapoli, Dist. Ratnagiri	401
		88. College of Agriculture, Saralgaon Tal.Murbad Dist.Thane	402
		89. Chhatrapati Shivaji College of Agriculture, Kirlos, Oros, Jaitapkar Colony, Tal. Kudal Dist. Sindhudurg.	403
		90. Govindraoji Nikam College of Agriculture Mandki Palwan, Tal.Chiplun Dist.Ratnagiri	404
		91. Sharadchandrajee Pawar College of Agriculture, Kharawate Dahivali, Tal.Chipalun Dist.Ratnagiri	405
		92. College of Agriculture, Sangulwadi, Dist-Sindhudurga	406

Sr. No.	Degree Course	Name of College	Code No.
		93. Kai. Rajaram Marathe College of Agriculture, Phondaghat, Dist-Sindhudura-416 601	407
		94. College of Agriculture, Achaloli. Tal. Mahad, Dist. Raigad ó 402 301.	408
•	B.Sc. (Hort.)	1. College of Horticulture, Shivajinagar, Pune-411 005.	135
		 Shrimant Shivajiraje College of Horticulture, Phaltan Dist. Satara-415523 	136
		 College of Horticulture, Kadegaon, A/P.Ambak, Tal. Kadegaon Dist. Sangli. 	137
		4. College of Horiculture, Pujya Saneguruji Vidya Prasarak Mandal, Shahada Dist. Nandurbar-425409.	138
		5. Lokmangal College of Horticulture, At. Post. Wadala, Tal. Uttar Solapur Dist. Solapur-416 222.	139
		6. College of Horticulture, Talsande, Tal. Hatkangale Dist .Kolhapur	140
		7. College of Horticulture, Panchavati, Nashik ó 422 003.	141
		 H.H. Shri. Murlidhar Swamijee College of Horticulture, Malegaon, Dist. ó Nashik ó 423 105. 	142
		 Shriram College of Horticulture, Paniv, Tal- Malshiras, Dist- Solapur-413113 	143
		10. College of Horticulture, Akola	226
		11. Shri Shivaji College of Horticulture, Amravati	227
		12. College of Horticulture, Jalgaon-Jamod, DistBuldhana	228
		13. College of Horticulture, Parbhani-431 402.	328
		14. Shri DMV Mandaløs College of Horticulture, Georai Tanda, Paithan Road, Aurangabad	329
		15. College of Horticulture, Shrikshetra Verul, Tal. Khultabad Dist. Aurangabad	330
		16. College of Horticulture, Kanchanwadi, Paithan Road, Tal. & Dist. Aurangabad	331
		17. College of Horticulture, Dapoli, Dist. Ratnagiri	409
		18. Sharadchandrajee Pawar College of Horticulture, Kharavate	
	_	Dahivali, Tal.Chipalun Dist.Ratnagiri.19. College of Horticulture, Mulde	<u>410</u> 411
		20. College of Horticulture, Saralgaon , Dist- Thane -421401.	412
		21. College of Horticulture, Sangulwadi, Dist- Sindhudurg ó 416601.	413
3.	B.Sc.(Forestry)	1. College of Forestry, Akola	229
		2. College of Forestry, Dapoli, Dist. Ratnagiri	414
4.	B.F.Sc.	1. College of Fisheries, Shirgaon, Ratnagiri	415
5.	B.Tech. (Food Sc./ Tech.)	 College of Food Technology, Rajmachi Tal. Karad Dist. Satara 	144
		 MAEERøs MIT College of Food Technology, Loni Kalbhor, Pune. 	145
		3. K.K.Wagh College of Food Technology, Panchvati, Dist:Nasik	146
		 Shramshakti College of Food Technology, Maldad, Dist:Ahmednagar 	147

Sr. No.	Degree Course	Name of College	Code No.
	-	 College of Food Technology, Near Dr.Ulas Patil Medical College, Jalgoan- 425309 	148
		6. College of Food Technology, Diwanmala, Dist- Dhule	149
		 College of Food Techonogy, Wagholi , Tal. Mohol, Dist. Solapur. 	150
		8. College of Food Technology, Ghargaon, Dist. Ahmednagar,	151
		 Sau Vasudhatai Deshmukh College of Food Technology, Lahari Complex, Kathora Naka, Valgaon Road, Amravati. 	230
		10. College of Food Technology, Parbhani	332
		 Rajiv Gandhi College of Food Technology, Jintur Road, Parbhani-431 401. 	333
		12. Aditya College of Food Technology, Telgaon Road, Beed	334
		13. Sau. Kesharbai Sonajirao Kshirsagar alias Kaku College of Food Technology, Navgan College Campus, Beed-431 122.	335
		14. Queens College of Food Technology, Survey No. 43, MIDC area, Behind Railway Station, Beside Tarun Bharat Press, Aurangabad.	336
		15. MGM College of Food Technology, Aurangabad-431 003	337
		16. College of Food Technology, Naigaon, Dist- Nanded-431 709.	338
		17. College of Food Technology, Udgir	339
		18. College of Food Technology, Aundha	340
		19. College of Food Technology,MIT Campus, Aurangabad- 431028.	341
		20. College of Food Technology, Gavrai Tanda, Aurangabad.	342
		21. College of Food Technology, Nagalgaon, Kandhar, Nanded-431742	343
		22. College of Food Technology, Ashti, Dist- Beed.	344
	-	23. College of Food Technology, Lodga, Dist- Latur-413531	345
		24. Sharadchandrajee Pawar College of Food Technology, Kharawate Dahiwali, Tal.Chipalun Dist.Ratnagiri.	416
		25. College of Food Technology, Saralgaon Tal- Murbad Dist. Thane	417
		 26. College of Food Technology, Achaloli, Tal. Mahad, Dist. Raigad -402 301. 	418
		 27. College of Food Technology, Sangulwadi. Tal. Vaibhavwadi Dist. Sindhudurg ó 416 810. 	419
6	B.Sc. (Agril. Bio.Tech)	 College of Agril. Bio-Technology, Chandrapur Road, I.T.I., Farmacy Campus, At.Post. Loni Bd., Tal. Rahata, Dist. Ahmednagar-413 736. 	152
		 K.K. Wagh College of Agril. Bio-Technology, Hirabai Haridas Vidyanagari, Amrutdham, Panchawati, Nasik-422 003. 	153

Sr. No.	Degree Course	Name of College	Code No.
		 Lokmangal College of Agril.Bio-Technology, Wadala, Dist- Solapur 	154
		 Modern College of Agril.Bio-Technology, Kule-Dakhane, Paud, Dist-Pune. 	155
		 College of Agril.Bio-Technology, Madadgaon, Dist- Ahmednagar. 	156
		6. College of Agril. Biotechnology, Baramati, Dist. Pune	157
		7. Shri Shivaji College of Agril. Bio-Technology, Amravati	231
		 Vasantrao Naik College of Agriculture Biotechnology, Yawatmal. 	232
		9. College of Agril. Bio-Technology, Nanded Road, Latur	346
		10. MGMøs College of Agril. Bio-Technology, N-6, CIDCO, Aurangabad.	347
		11. D.M.V.Mandaløs College of Agril. Bio-Technology, Paithan Road, Aurangabad.	348
		 Mahatma Gandhi College of Agril. Bio-Technology, Pokharni, Post. Limbgaon (Railway), Nanded Poorna Road, Dist. Nanded-431 735. 	349
		13. College of Agril. Bio-Technology, Hatta, Tal-Basmat Dist- Hingoli	350
		14. Aditya College of Agril.Bio-Technology, Beed-431 122	351
		15. College of Agril. Bio-Technology, Kharawate	420
		 College of Agriculture Biotechnology, Achaloli, Tal. Mahad, Dist. Raigad ó 402 301. 	421
		17. College of Agriculture Biotechnology, Sangulwadi. Tal. Vaibhavwadi Dist. Sindhudurg ó 416 810.	422
		18. College of Agriculture Biotechnology, Saralgaon Tal.Murbad Dist.Thane	423
7	B.Tech. (Agri. Engg.)	 Dr. Annasaheb Shinde College of Agril Engineering, Rahuri, Dist. Ahmednagar-413 722. 	158
		 Dr.Ulhas Patil College of Agril. Engineering, Dr. Ulhas Patil Nagar, Additional M.I.D.C., NH-6, Bhusawal Road, Jalgaon- 425 003. 	159
		3. Padmashri Dr. D.Y. Patil College of Agril. Engineering & Technology, At.Post- Talsande, Tal. Hatkanangale, Kolhapur	160
		 Karmveer Kakasaheb Wagh College of Agril. Engineering,, Hirabai Haridas Vidyanagari, Amrutdham, Panchvati, Nasik- 422 003. 	161
		5. Sahyadri College of Agriculture Engg. Yashwantnagar, Tal. Karad Dist. Satara.	162
		 College of Agri.Engineering and Technology, Mirajgaon, Dist Ahmednagar. 	163
		 College of Agri.Engineering and Technology, Maldad, Dist Ahmednagar. 	164

Sr. No.	Degree Course	Name of College	Code No.
		8. College of Agri.Engineering and Technology, Rajmachi, Dist. Satara- 415110.	165
	-	 College of Agri.Engineering and Technology, Paniv, Dist. Solapur 	166
		10. College of Agril. Engineering and Technology, Akola	233
		11. College of Agril. Engineering, Jalgaon Jamod, Dist. Buldhana.	234
		12. College of Agril. Engineering, Parbhani-431 402.	352
	-	13. Aditya College of Agril. Engineering, Telgaon Road, Beed	353
		 Sir Chhoturam College of Agril. Engineering & Tech. Lodga, Latur ó 413531. 	354
		 College of Agril. Engineering & Tech. Nehrunagar, Nagalgaon, Tal. Khandar, Dist. Nanded. 	355
		 College of Agril. Engineering & Technology Dapoli, Dist. Ratnagiri 	424
		17. Dr. Budhajirao Mulik College of Agril. Engineering & Technology, Mandki Palwan Tal.Chipalun Dist.Ratnagiri	425
		18. College of Agril. Engineering & Technology,Saralgaon,Dist. Thane-421401.	426
		 College of Agril. Engineering & Technology, Sangulwadi, Dist. Sindhudurg -416601 	427
8	B.Sc. (Hons.) (Home Science)	1. College of Home Science, Parbhani-431 402.	356
9	B.B.M. (Agri.) / B.Sc. (ABM)	 Padmashree Dr. D.Y. Patil College of Agriculture Business Management, Akuradi, Pune-411 044. 	167
	-	 College of Agriculture Business Management, Narayangaon, Tal. Junnar Dist. Pune-410 504. 	168
	-	3. Rajarshi Chhatrapati Shahu Maharaj College of Agriculture Business Management, Sangli-416 415	169
	-	4. K.K.Wagh College of Agriculture Business Management, Nashik	170
		5. College of Agriculture Business Management, Gunjalwadi	171
	-	 College of Agriculture Business Management, Loni, Tal Rahata, Dist Ahmednagar 	172
		 College of Agriculture Business Management, Panchawati, Nasik- 422003. 	173
		 College of Agriculture Business Management, Wadala, Solapur-413222 	174
		10. College of Agriculture Business Management, Baramati, Pune - 413115	175
		11. Shriram College of Agriculture Business Management, Paniv, Solapur-413113.	176
		12. Vivekanand College of Agriculture Business Management, Vivekanand Nagar (Hiwra Ashram) Tal.Mehkar Dist.Buldhana	235
		13. Rajashree Shahu Maharaj, College of Agriculture Business Management, Sadak ó Arjuni, Dist Gondia.	236
		14. College of Agriculture Business Management, Shrinagar, Barshi Road, Latur-413 512.	357
		15. S.S. Patil College of Agriculture Business Management, At- Vaveghar, Post. Rasayani Tal. Panvel Dist. Raigad	428

Sr. No.	Degree Course	Name of College	Code No.
		16. College of Agriculture Business Management, Kirlos Tal.	429
		Kudal Dist. Sindhudurg	
10	B.Sc. (Hons.) Animal Husbandry	1. College of Animal Husbandry, Shardanagar, Baramati, Dist. Pune.	177

Note. Students who wish to appear for CET-2018 but are not graduated from the FOUR SAUs in Maharashtra should mention 501 as their college code (Outside State or Otherwise).

Sr. No.	Degree Course	Name of College	Code No.
1	Agriculture or allied subjects	Other than FOUR SAUs in Maharashtra	501

CET-2018 Syllabus

<u>Annexure: "B"</u> Section "A": Syllabus for CET in Agriculture Stream for 80 %

Subject	Course No.	Title	Credits
	AGRO-111	Principles of Agronomy	1+1=2
	AGRO-112	Agricultural Meteorology	1+1=2
	AGRO-113	Introductory Agriculture (Ancient heritage, agricultural scenario and gender equity in Agriculture)	1+0=1
	AGRO-124	Water Management including Micro irrigation	2+1=3
	AGRO-235	Field Crops ó (I) (Kharif Crops)	2+1=3
Agronomy	AGRO-236	Practical Crop Production (I) (Kharif Crops)	0+1=1
Agronomy	AGRO-247	Field Crops-(II) (Rabi Crops)	2+1=3
	AGRO-248	Practical Crop Production (II) (Rabi Crops)	0+1=1
	AGRO-359	Weed Management	1+1=2
	AGRO-3610	Farming Systems and Sustainable Agriculture	1+1=2
	AGRO-3611	Organic and Rainfed farming	1+1=2
		Total	13+11=24
	BOT-111	Environmental Science	1+1=2
	BOT-122	Principles of genetics	2+1=3
	BOT-233	Principles of Plant Breeding	2+1=3
Botany	BOT-234	Crop Physiology	2+1=3
	BOT-245	Breeding of field and Horticultural crops	2+1=3
	BOT-356	Principles of Plant Biotechnology	2+1=3
	BOT-367	Principles of Seed Technology	2+1=3
	1	Total	13+7=20
	SSAC-111	Introduction to Soil Science	2+1=3

	SSAC-122	Soil Chemistry, Soil Fertility and Nutrient Management	2+1=3
Soil Science	SSAC-243	Manures, Fertilizers and Agrochemicals	2+1=3
	SSAC-354	Biochemistry	2+1=3
	Some 331	Total	8+4=12
			-
	PATH-111	Introductory Plant Pathology	1+1=2
	MIBO-121	Agricultural Microbiology	2+1=3
Plant Pathology	PATH-232	Principles of Plant Pathology	
	PATH-243	Diseases of Field Crops and their Management	2+1=3
	PATH-354	Diseases of Horticultural Crops and their Management	2+1=3
		Total	8+5=13
	HORT-111	Production Technology of Fruit Crops	2+1=3
	HORT-232	Production Technology of Vegetables and Flowers	1+1=2
Horticulture	HORT-243	Production Technology of Spices, Aromatics, Medicinal and Plantation Crops	1+1=2
	HORT-364	Post Harvest Management and Value addition of Fruits and Vegetable	1+1=2
		Total	5+4=9
	EXTN-111	Fundamentals of Rural Sociology and Educational Psychology	2+0=2
Agricultural	EXTN-122	Dimensions of Agricultural Extension	1+1=2
Extension	EXTN-353	Extension Methodologies for Transfer of Agricultural Technology	1+1=2
	EXTN-364	Entrepreneurship Development and Communication Skills	1+1=2
		Total	5+3=8
	ECON-121	Principles of Agricultural Economics	2+0=2
	ECON-232	Production Economics and Farm Management	1+1=2
Agricultural	ECON-243	Agricultural Finance & Co-operation	1+1=2
Economics	ECON-354	Agricultural Marketing, Trade and Prices	1+1=2
	ECON-365	Agri-Business Management	1+1=2
	STAT-121	Statistics	1+1=2
	<u> </u>	Total	7+5=12
	AHDS-111	Livestock Production and Management	1+1=2
Animal Science	AHDS-242	Livestock Breeding and Nutrition	1+1=2
& Dairy Science	AHDS-353	Technology of milk and milk Products	1+1=2
	AHDS-364	Sheep & Goat production	1+1=2
	ENT 221	Total	4+4=8
	Agricultural ENT-231 Insect Morphology and Systematic Agricultural ENT-242 Insect Ecology, Integrated Pest Management and Beneficial Insects		2+1=3
Agricultural Entomology			2+1=3
Entomology	ENT-353	Crop Pests and Stored Grain Pests and their Management	2+1=3
	ENT-364	Introductory Nematology	1+1=2

		Total	7+4=11
	ENGG-121	Fundamentals of Soil and Water Conservation	1+1=2
Agricultural	ENGG 222	Engineering	1.1.0
0	ENGG-232	Introduction to Computer and Applications	1+1=2
Engineering	ENGG-353	Farm Power and Machinery	1+1=2
	ENGG-364	Protected Cultivation and Post harvest Technology	1+1=2
		Total	4+4=8
		Grand Total	74+51=125

Syllabus for CET Agriculture for 20 %

Section "B" : Syllabus of following courses of B.Sc. Hort for 3% weightage **Division of Fruit Science**

Sr. No.	Course No.	Course title	Credits
1	H/FS-231	Tropical and Subtropical Fruits	2+1
2	H/FS-242	Breeding of Fruit and Plantation Crops	2+1
3	H/FS-243	Arid Fruit Crops	1+1
4	H/FS-354	Temperate and Plantation Fruit Crops	2+1
5	H/HORT-111	Fundamentals of Horticulture	2+1
6	H/HORT-122	Plant Propagation and Nursery Management	2+1
		Total	11+6=17

Division of Vegetable Science

Sr. No.	Course No.	Course title	Credits
1	H/VS-231	Tropical and Subtropical Vegetable Crops	2+1
2	H/VS-242	Temperate Vegetable Crops	1+1
3	H/VS-353	Breeding of Vegetable Crops	2+1
4	H/VS-364	Seed Production of Vegetable Crops	2+1
5	H/VS-365	Protected Cultivation of Vegetable Crops	1+1
6	H/SPICON-231	Spices and Condiments	1+1
		Total	9+6=15
Division	of Floriculture and L	andscaping	
Sr. No.	Course No.	Course title	Credits

Sr. No.	Course No.	Course title	Credits
1	H/FL-111	Ornamental Horticulture	1+1
2	H/FL-232	Landscape Gardening	1+1
3	H/FL-243	Commercial Floriculture	2+1
4	H/FL-354	Protected Cultivation of Flower Crops	1+1
5	H/FL-365	Breeding and Seed Production of Ornamental Plants	1+1
		Total	6+5=11
Division of Post Harvest Technology			

Sr. No.	Course No.	Course title		Credits
1	H/PHT-231	Post Harvest Management of Horticultural Crops		2+1
2	H/PHT-362	Processing and Value Addition of Horticultural Crops		1+2
			Total	3+3=6

Division of Plant Protection Course title Credits

Sr. No.	Course No.	Course title	Credits
1	H/PATH-121	Fundamentals of Plant Pathology 1+	
2	H/PATH-232	Diseases of Vegetable, Ornamental and Spice Crops	2+1
3	H/PATH-242	Diseases of Fruits, Plantation, Aromatic and Medicinal	2+1
		Crops	
4	H/PATH-354	Mushroom Culture	0+1
5	H/MIBO-111	Introductory Microbiology	1+1
6	H/MIBO-362	Applied Microbiology	0+1

7	H/ENTO-121	Fundamentals of Entomology	1+1
8	H/ENTO-352	Insect Pest Management of Fruit, Plantation, Medicinal and Aromatic Plants	2+1
9	H/ENTO-353	Insect Pest Management of Vegetable, Ornamental and Spice Crops	2+1
10	H/ENTO-364	Nematode Pests of Horticultural Crops and their Management	1+1
11	H/ENTO-365	Apiculture	0+1
		Total	12+11=23

Division of Natural Resource Management

Sr. No.	Course No.	Course title	Credits
1	H/SSAC-111	Fundamentals of Soil Science	1+1
2	H/SSAC-244	Soil, Irrigation Water and Plant Analysis	0+1
3	H/SSAC-232	Fundamentals of Bio-chemistry	1+1
4	H/SSAC-122	Soil Fertility and Nutrient Management	2+1
5	H/BOT-354	Environmental Science and Agro-ecology	1+1
6	H/AGRO-121	Water Management of Horticultural Crops	1+1
7	H/AGRO-232	Weed Management in Horticultural Crops	1+1
8	H/AGRO-243	Organic Farming	1+1
9	H/AGROMET-111	Agriculture Meteorology	1+1
10	H/ENGG-351	Farm Power and Machinery	1+1
		Total	10+10=20

Division of Basic Science & Humanities

Sr. No.	Course No.	Course title	Credits
1	H/HORT-123	Growth and Development of Horticultural Crops	1+1
2	H/HORT-354	Introductory Agroforestry and Horti-silvipasture	1+1
3	H/BIOT-361	Fundamentals of Bio-technology	1+1
4	H/BOT-111	Principles of Genetics and Cytogenetics	2+1
5	H/BOT-122	Principles of Plant Breeding	1+1
6	H/BOT-123	Introductory Plant Physiology	1 + 1
7	H/AROMED-241	Aromatic and Medicinal Crops	1+1
8	H/EXTN-111	Fundamentals of Extension Education	1+1
9	H/EXTN-122	Agril. Communication and Journalism	0+1
10	H/EXTN-363	Entrepreneurship Development and Communication Skills	1 + 1
11	H/ECON-232	Horti-Business Management	2+0
12	H/ECON-111	Introductory Economics	2+0
13	H/STAT-121	Elementary Statistics	1 + 1
14	H/COMP-111	Computer Application	1+1
		Total	16+12=28

Section "C": Syllabus of following courses of B.Sc. Forestry for 3 % weightage

Sr. No.	Name of department/ Discipline	No. of Credits
1.	Agricultural Sciences	34
	Agricultural Botany	7
	F/BOT ó 111	
	Principles of Cytology and Genetics	2(1+1)
	F/BOT ó 112	
	Principles of Plant Physiology	2(1+1)
	F/ BOT ó 113	
	Introductory Botany	3(2+1)
	Agricultural Economics	2
	F/ ECON ó 111	
	Introductory Forest Economics	2(2+0)

	Soil Science	4
	F/SSAC ó 111 Fundamentals of Geology and Soil Science	2(1+1)
	F/SSACó 232	_(- · -)
	Fundamentals of Biochemistry	2(1+1)
	Horticulture	3
	F/HORT ó 111 Fundamentals of Horticulture	3(2+1)
	Extension Education	5
	F/ EXTN ó 241 Fundamentals of Extension Education F/ EXTN ó 362	2(1+1)
	Entrepreneurship Development and Communication Skills	3(2+1)
	Agricultural Engineering	5
	F/ENGG 121 Principles of Hydrology, Soil and Water Conservation F/ENGG 6 351	3 (2+1)
	Introduction to Computer Application	2(1+1)
	Biotechnology	2
	F/ BIOT-361	2(1,1)
	Fundamentals of Biotechnology Animal Science and Dairy Science	2 (1+1)
	F/ASDS ó 241	-
	Livestock Management	<u>2(1+1)</u> 2
	Agricultural Statistics	2
	F/ STAT 6 351	2(1, 1)
	Elementary Statistics Agricultural Meteorology	<u>2(1+1)</u> 2
	F/AGROMET ó 111	
	Agricultural Meteorology	2(1+1)
2.	Forest Biology and Tree Improvement	22
	FBT ó 121 Dendrology	3 (2+1)
	FBT ó 122	5 (2+1)
	Forest Ecology, Biodiversity and Conservation FBT 6 123	3(2+1)
	Tree Physiology	2(1+1)
	FBT ó 234 Principles of Tree Improvement	3 (2+1)
	FBT ó 235 Tree Seed Technology	2 (1+1)
	FBT ó 246 Fundamentals of Wildlife	2 (2+0)
	FBT ó 247 Forest Pathology	3 (2+1)
	FBT ó 358 Wild Life Management FBT ó 369	2 (1+1)
	FB1 0 369 Forest Entomology and Nematology	3(2+1)
3.	Silviculture and Agroforestry	24
	SAF ó 121	
	Principle and Practices of Silviculture	4(3+1)

	SAF ó 232	
	Forest Mensuration	3(2+1)
	SAF ó 233	5(2+1)
	Nursery Management	2(1+1)
	SAF ó 244	2(1+1)
	Silviculture of Indian Trees	3 (2+1)
	SAF ó 245	$\mathcal{S}(2+1)$
	World Forestry Systems	2(2+0)
	SAF ó 356	2(2+0)
	Silvicultural Systems	2(2+0)
	SAF ó 357	$\mathcal{L}(\mathcal{L} + 0)$
	Plantation Forestry and Wasteland Development	2(1+1)
	SAF ó 358	2(1+1)
	Environmental Science	3 (2+1)
	SAF ó 369	$\mathcal{S}(2+1)$
	Agro forestry System and Management	3 (2+1)
4.	Forest Product Utilization	17
т.		17
	FPU ó 121	
	Ethnobotany	3 (2+1)
	FPU ó 232	
	Wood Anatomy	2 (1+1)
	FPU ó 233	
	Logging and Ergonomics	2 (1+1)
	FPU ó 244	
	Wood Science and Technology	3 (2+1)
	FPU ó 245	
	Wood Products and Utilization	2 (1+1)
	FPU ó 356	
	Medicinal and Aromatic Plants	3 (2+1)
	FPU ó 367	
	Utilization of Non-Timber Forest Products	3 (2+1)
5.	Natural Resource Management	23
	NRM ó 121	
	Chemistry and Fertility of Forest Soils	3 (2+1)
	NRM 6 232	× /
	Forest Engineering and Survey	2 (1+1)
	NRM 6 233	
	Soil Survey and Remote sensing	3 (2+1)
	NRM 6 244	
	Forest Tribology and Anthropology	2 (2+0)
	NRM 6 355	
	Rangeland Management	3 (2+1)
	NRM ó 356	
	Principles of Forest Economics, Project Planning and Evaluation	2 (1+1)
	NRM ó 367	
	Forest Management, Policy and Legislation	3 (2+1)
	NRM ó 368	× /
	Forest Business Management	2 (1+1)
	NRM -369	
	Marketing and Trade of Forest Produce	3 (2+1)
		Total 120

Section "D" : Syllabus of following courses of B.Sc. (Agri Bio-Tech) for 3 % weightage A. Department of Plant Biotechnology

Sr. No. Title Credits	in 2 oper one	The Department of Thank Diotechnology				
	Sr. No.	Title	Credits			

	Total	16+19=35
PB 4715	Plant Genomics	1+3=4
PB 4714	Legal issues in GMOøs and LMOøs	1+3=4
PB 4713	PCR Techniques and its Application	1+3=4
PB 4712	Techniques in Genetic Transformation	1+3=4
PB-3610	Biosafety Issues	2+0=2
PB-369	Introduction to Bioinformatics	1+2=3
PB-358	Biodiversity Conservation	2+1=3
PB-357	Biotechnology of Biotic and Abiotic Stress Resistance	2+1=3
PB-246	Plants Cell and Tissue Culture	2+1=3
PB-235	Molecular Markers in Plant Breeding	1+1=2
PB-123	Introduction to Plant Biotechnology	2+1=3

B. Dept. of Biochemistry and Molecular Biology

Sr. No.	Title	Credits
Bio-111	Basic Biochemistry	2+1=3
Bio-122	Enzymology	2+1=3
Bio-123	Microbial Genetics	2+1=3
Bio-234	Molecular Biology	2+1=3
Bio-235	Plant Metabolic Pathways	2+1=3
Bio-236	Elements of Immunology	1+1=2
Bio-247	Techniques in Biochemistry and Molecular Biology	2+2=4
Bio-358	Recombinant DNA Technology	2+1=3
BIO 4710	Advances in Recombinant Technology	1+3=4
BIO 4711	Secondary Metabolites of Commercial Importance	1+3=4
BIO 4712	Immunological techniques and its Application	1+3=4
BIO 4713	Proteins and Proteomics	1+3=4
BIO 4714	Enzyme Technology	1+3=4
	Total	20+24=44

C. Department of Post -harvest and Food Biotechnology

Sr. No.	Title	Credits
FB-121	Human Nutrition	1+1=2
FB-232	Industrial Microbiology and Fermentation Technology	2+2=4
FB-243	Enzyme Biotechnology in Food Processing	2+1=3
FB-244	Post-harvest Biotechnology of Food Grains	2+1=3
FB-355	Technological Applications in Food Processing	1+1=2
FB-356	Post-harvest Biotechnology of Horticultural Crops	2+1=3
FB-367	Food and Nutrition Security of GM Food crops	1+1=2
FB 478	Cereal Biotechnology	2+2=4
FB 479	Fruit and Vegetable Biotechnology	2+2=4
FB 4710	Brewing Technology	1+3=4
FB 4711	Wine Technology	1+3=4
FB 4712	Patenting Inventions in Food Biotechnology	2+2=4
	Total	19+20=39

D. Department of Animal Biotechnology

Sr. No.	Title	Credits
AB-231	Basics in Animal Biotechnology	2+1=3
AB-242	Animal Cell Culture	2+1=3
AB-243	Biotechnology of Ruminant Feed Utilization	2+1=3
AB-354	Dairy Process Biotechnology	2+1=3
AB-355	Livestock Genome	2+1=3
AB-366	Animal Genetic Engineering	2+1=3
AB 477	Techniques in Animal Cell Culture	1+3=4

AB 478	Transgenic for improvements in animals	1+3=4
AB 479	Artificial Insemination techniques	1+3=4
AB 4710	Advances in Dairy Microbiology	1+3=4
AB 4711	Probiotics in milk and milk products	1+3=4
	Total	17+21=38

E. Department of Crop Science

Sr. No.	Title	Credits
CS 237	Greenhouse Technology and Protected cultivation	1+1=2
CS 248	BioStatistics	1+1=2
CS 249	Intellectual Property Rights	1+0=1
CS 3510	Computer Application in Biotechnology	1+2=3
CS 3611	Management of Major Insect Pests and Diseases of Field and	1+1=2
	Horticultural Crops	
CS 3612	Marketing and Export of Biotechnological Products	1+1=2
	Total	06+06=12
	Total Credit	78+90=168

Section "E" : Syllabus of following courses of B.B.M. (Agri.)for 3 % weightage 1. Departments of Agricultural and Allied Sciences

Sr. No.	Course No.	Course Title	Credits
1	AGRO-111	Agro-Techniques of Principal Crops and Agro- Meteorology	3=2+1
2	AGRO-122	Farming Systems and Sustainable Agriculture	2=2+0
3	AGRO-233	Irrigation Water Management	2=1+1
4	HORT- 111	Production Management of Important Fruit Crops	2=1+1
5	HORT-232	Production Management of Important Vegetable and Floricultural Crops	2=1+1
6	HORT-243	Post Harvest Technology of Horticultural crops	3=2+1
7	BOT-111	Principles of Plant Biotechnology	2=1+1
8	BOT-122	Environmental Science	2=1+1
9	SSAC-121	Soil Fertility, Fertilizers and Nutrient Management	2=1+1
10	SSAC-232	Soil, Water and Plant analysis	2=0+2
11	ASDS- 231	Animal Production Management	2=1+1
12	ASDS-242	Value Addition in Animal Products	2=1+1
13	ENGG-121	Farm Structures and Green House technology	2=1+1
14	ENGG-232	Post-Harvest Technology of Cereals, Pulses, Oilseeds and Cash crops	2=1+1
15	ENT-121	Integrated Pest Management	2=1+1
16	PATH-231	Integrated Disease Management	2=1+1
17	PATH-362	Bio-fertilizers and Mushroom Production	2=1+1
18	EXTN-121	Entrepreneurship and Personality Development	2=2+0
19	EXTN-232	Communication Skills and Market-Led Extension for Business Management	2=1+1
20	EXTN-243	Consumers Psychology in Business Management	2=1+1
21	EXTN-354	Information Technology in Agri-Business	2=1+1
22	EXTN-365	Organizational Behaviour for Business Management	2=2+0
23	COMP-111	Introduction to Computer Applications	2=1+1
24	STAT-241	Business Statistics	3=2+1
		Total	51=29+22

Sr. No.	Course No.	Course Title	Credits
1	ECON-111	Agricultural Economics and Natural Resource	3=2+1
		Economics	
3	ECON- 112	Structure and Dynamics of Indian Agriculture	2=2+0
2	ECON-123	Farm Business Management	2=1+1
4	ECON-124	Money, Banking and International Trade	2=1+1
5	ECON-235	Agril. Co-operation, Institutions and Management	3=2+1
7	ECON- 246	Indian Agricultural Policies	2=2+0
6	ECON-357	Input-Output Measurement Techniques	2=1+1
8	ECON- 358	Research Methods in Social Sciences	2=1+1
9	ECON-369	Planning, Formulation and Evaluation of Business	3=1+2
		Projects	
10	ECON-3610	Financial Management in	3=2+1
		Agri- Business	
		Total	24 = 15 + 9

2. Department of Agricultural Economics

3. Department of Agricultural Marketing

Sr. No.	Course No.	Course Title	Credits
1	MKT-121	Introduction to Agricultural Marketing	2=1+1
3	MKT-232	Marketing Institutions and Organizations	3=2+1
2	MKT-233	Input Marketing Management	3=2+1
4	MKT-244	Rural Marketing and Market Infrastructure	3=2+1
5	MKT-245	Retail Marketing	3=2+1
7	MKT-356	Trading of Agricultural Commodities-I	2=1+1
6	MKT-357	Market and Trade Acts	2=2+0
8	MKT-368	Trading of Agricultural Commodities-II	2=1+1
		Total	20 = 13 + 7

4. Department of Agri-Business Management

Sr. No.	Course No.	Course Title	Credits
1	ABM-111	Introduction to Agri-Business Management	2=1+1
2	ABM-122	Agro-based Industrialization	2=2+0
3	ABM-233	Office Procedures for Agri-Business	1=0+1
4	ABM-244	Disaster Management in Agriculture	2=1+1
5	ABM-355	Inventory and Risk Management	2=1+1
6	ABM-356	Agro-tourism	2=1+1
7	ABM-357	Production Management, Planning and Control	2=1+1
8	ABM-358	Agro-Processing Managements	2=1+1
9	ABM-359	Marketing and Management Policies	2=1+1
10	ABM-3610	Agri-Business Operations, HRD and Strategic	2=2+0
		Management	
11	ABM-3611	Product Promotion Methods	2=1+1

12	ABM-3612	Managerial Accounting	2=1+1
13	ABM-3613	Market Survey and Price Analysis	2=0+2
		Total	25=13+12
		GRANT TOTAL	120 = 70 + 50

Section "F": Syllabus of following courses of B. Tech (Agril. Engg.) for 3. 5 % weightage

1) Basic Science and Computer Technology				
Course Number	Course Title	Credits		
BS-MATH-111	Engineering Mathematics-I	3(2+1)		
BS-PHY-112	Engineering Physics	3(2+1)		
BS-CT-113	Computer Programming and Data Structures	3(1+2)		
BS-MATH-124	Engineering Mathematics-II	3(2+1)		
BS-CT-125	Database Management and Internet Applications	2(0+2)		
BS-MATH-236	Engineering Mathematics-III	3(2+1)		
BS-STAT-237	Statistical Methods	2(1+1)		
	Total	19(10+9)		

2) Agricultural Science

Course	Course Title	Credits
Number		
AG-111	Agronomy	2(1+1)
AG-112	Horticulture	2(1+1)
AG-113	Animal Sciences and Dairy Science	2(1+1)
AG-124	Soil Science	2(1+1)
AG-245	Agribusiness Management and Trade	2(2+0)
AG-366	Entrepreneurship Development and Communication Skills	2(1+1)
	Total	12(7+5)

3) Department of Farm Machinery and Power

Course Number	Course Title	Credits
FMP-111	Workshop Practice	2(0+2)
FMP-112	Engineering Drawing	2(0+2)
FMP-123	Workshop Technology	2(1+1)
FMP-124	Machine Drawing and Computer Graphics	2(0+2)
FMP-235	Theory of Machines	3(2+1)
FMP-236	Farm Power	2(1+1)
FMP-247	Farm Machinery and Equipment-I	2(1+1)
FMP-248	Tractor System and Control	2(1+1)
FMP-359	Farm Machinery and Equipment-II	2(1+1)
FMP-3610	Machine Design	3(2+1)
FMP-3611	Field Operation and Maintenance of Tractor and Farm Machinery	1(0+1)
	Total	23(9+14)
4) Department of So	oil and Water Conservation Engineering	

Course Number	Course Title	Cre	dits
SWCE-121	Surveying and Leveling		3(1+2)
SWCE-232	Soil Mechanics		3(2+1)
SWCE-233	Watershed Hydrology		3(2+1)
SWCE-244	Soil and Water Conservation Engineering		3(2+1)
SWCE-355	Soil and Water Conservation Structures		3(2+1)
SWCE-366	Watershed Planning and Management		3(2+1)
		Total	18(11+7)

5) Department of Irrigation and Drainage Engineering		
Course Number	Course Title	Credits
IDE-231	Fluid Mechanics	3(2+1)
IDE-242	Irrigation Engineering	3(2+1)
IDE-353	Groundwater, Wells and Pumps	3(2+1)
IDE-354	Drainage Engineering	3(2+1)
IDE-365	Advanced Irrigation System Design	2(1+1)

IDE-366	Minor Irrigation and Command Area Development	3(2+1)
	Total	17(11+6)
6) Department of Agr	icultural Process Engineering	
Course Number	Course Title	Credits
APE-121	Thermodynamics	3(2+1)
APE-232	Engineering Properties of Biological Materials and Food Quality	2(1+1)
APE-243	Heat and Mass Transfer	2(1+1)
APE-244	Crop Process Engineering	3(2+1)
APE-355	Dairy and Food Engineering	3(2+1)
APE-356	Drying of Farm Crop	2(1+1)
APE-357	Storage Engineering	2(1+1)
APE-368	Refrigeration and Air Conditioning	2(1+1)
	Total	19(11+8)
7) Department of Far	m Structure	
Course Number	Course Title	Credits
FS-121	Engineering Mechanics	3(2+1)
FS-242	Building Materials	2(1+1)
FS-353	Strength of Material	3(2+1)
FS-354	Agricultural Structures and Environmental Control	3(2+1)
FS-365	Design of Structures	3(2+1)
	Tot	tal 14(9+5)
	etrical and Other Energy Sources	
Course Number		Credits
EOES-111	Engineering Chemistry	2(1+1)
EOES-122	Applied Electronics and Instrumentation	3(2+1)
EOES-233	Electrical Circuits	3(2+1)
EOES-244	Electrical Machines and Power Utilization	3(2+1)
EOES-365	Renewable Energy Sources	3(2+1)
	Total	14(9+5)
	Total credit	136(77+59)

Section "G": Syllabus of following courses of B.Tech (Food Science) for 3 % weightage Department of Food Science and Technology

Sr.	Course	Course Title	Credits
No.	No.		
1	FST-111	Principles of Food Processing	2+1=3
2	FST-112	Food Production Trends and Programs	2+0=2
3	FST-123	Post harvest Management of Fruit and Vegetable	2+1=3
4	FST-124	Cereal Processing	2+1=3
5	FST-235	Legume and Oilseed Technology	2+1=3
6	FST-236	Meat, Poultry and Fish Technology	2+1=3
7	FST-237	Wheat Milling and Baking Technology	2+1=3
8	FST-238	Confectionery Technology	1+1=2
9	FST-249	Fruit and Vegetable Processing	2+1=3
10	FST-2410	Food Quality	1+1=2
11	FST-2411	Processing of Milk and Milk Products	1+1=2
12	FST-2412	Spice and Flavor Technology	2+1=3
13	FST-3513	Food Industry By-Products and Waste Utilization	1+1=2
14	FST-3514	Carbonated Beverage Technology	1+1=2
15	FST-3615	Product Development and Formulation	1+1=2
16	FST-3616	Speciality Foods	2+1=3
17	FST-3617	Extrusion Technology	1+1=2
18	FST-3618	Quality Assurance and Certification	2+1=3
		Total	29+17= 46

Department of Food Chemistry and Nutrition

Sr.	Course	Course Title	Credits
No.	No.		
1	FCN-111	Bio-chemistry	2+1=3
2	FCN-112	Food Chemistry-I	2+1=3
3	FCN-123	Food Chemistry óII	2+1=3
4	FCN-124	Human Nutrition	2+1=3
5	FCN-235	Techniques in Food Analysis	1+2=3
6	FCN-246	Food Additives	2+1=3
7	FCN-247	Environmental Science	2+1=3
		Total credits	13+8= 21
Departn	nent of Food and	Industrial Microbiology	
Sr.	Course No.	Course Title	Credits
No.			
1	FIM-111	Fundamentals of Microbiology	2+1=3
2	FIM-122	Food Microbiology	2+1=3
3	FIM-233	Fermentation and Industrial Microbiology	2+1=3
4	FIM-244	Food Safety and Microbial Standards	2+1=3
5	FIM-355	Food Bio-technology	2+1=3
6	FIM-366	Food Hygiene and Sanitation	2+1=3
		Total credits	12+6= 18

Department of Food Engineering

Sr. No.	Course No.	Course Title	Credits
1	FE-111	Engineering Drawing	0+1=1
2	FE-112	Fluid Mechanics and Hydraulics	1+1=2
3	FE-123	Energy Generation and Conservation	2+1=3
4	FE-124	Heat and Mass Transfer	1+1=2
5	FE-235	Food Processing Equipments-I	2+1=3
6	FE-236	Food Packaging	2+1=3
7	FE-247	Food Processing Equipments-II	2+1=3
8	FE-358	Refrigeration Engineering and Cold Chain	2+1=3
9	FE-359	Bio-Chemical Engineering	2+1=3
10	FE-3510	Instrumentation and Process Control	2+1=3
11	FE-3611	Food Plant Design and Layout	1+2=3
		Total credits	17+12=29

Sr.	Course	Course Title	Credits
No.	No.		
1	FTBM-351	Co-operation, Marketing and Finance	2+1=3
2	FTBM-352	Business Management and International Trade	2+0=2
3	FTBM-363	Entrepreneurship Development and Communication Skills	1+1=2
4	FTBM-364	Food Laws and Regulations	2+1=3
		Total credits	7+3=10
		Grand Total	78+46=124

Section "H": Syllabus of following courses of B.Sc. (Home Science) for 1.5 % weightage

	Sr. No. Course No.	Course Title	Credits
--	--------------------	--------------	---------

		<u>Annexure: "C"</u> A": Syllabus for CET in Horticulture Stream for 80 %	
		Total Credits	85
28	HE IT CM 353	Training & Human Resource Development	1+3
27	TAD TD 353	Principles of Design Application	1+3
26	HDFS MEC 362	Organisation & Management of ECCD Programmes	2+3
25	FRM ID 361	Interior Designing & Decoration	1+2
24	FRM ID 351	Space Designing-I (Residential)	1+2
23	FSN ND 361	Advanced Human Nutrition	3+0
22	FSN ND 351	Food Science	2+1
21	HECM 244	Programme Development	1+2
20	HDFS 244	Dynamics of Marriage & Family	2+1
19	TAD 244	Fundamentals of Textile Designing	2+1
18	FRM 245	Fundamentals of Art & Design	1+2
17	FSN 244	Food preservation and Storage	1+2
16	TAD 233	Apparel Designing & Construction	1+2
15	HECM 233	Diffusion and adoption of Home stead technology	2+1
14	HDFS 233	Children with Developmental Challenges	2+1
13	FRM 234	Housing and space Management	1+2
12	FSN 233	Normal and Therapeutic Nutrition	2+1
11	HECM 122	Communication & Instructional Technology	1+2
10	FRM 123	Consumer Education	1+1
9	FRM 122	Family Economics	1+1
8	TAD 122	Textile Science & Care	2+1
7	HDFS 122	Early Childhood Development, Care & Education	2+1
6	FSN 122	Introduction to Human Nutrition	2+1
5	HDFS 111	Life Span Development	2+1
4	HECM 111	Home Science Extension & Rural Development	2+1
3	TAD 111	Fundamentals of clothing construction	1+2
2	FRM 111	Management of Family Resources	2+0

Sr. No.	Course No.	Course title		Credits
1	H/FS-231	Tropical and Subtropical Fruits		2+1
2	H/FS-242	Breeding of Fruit and Plantation Crops		2+1
3	H/FS-243	Arid Fruit Crops		1+1
4	H/FS-354	Temperate and Plantation Fruit Crops		2+1
5	H/HORT-111	Fundamentals of Horticulture		2+1
6	H/HORT-122	Plant Propagation and Nursery Management		2+1
			Total	11+6=17

Sr. No.	Course No.	Course title	Credits
1	H/VS-231	Tropical and Subtropical Vegetable Crops	2+1

2	H/VS-242	Temperate Vegetable Crops	1+1
3	H/VS-353	Breeding of Vegetable Crops	2+1
4	H/VS-364	Seed Production of Vegetable Crops	2+1
5	H/VS-365	Protected Cultivation of Vegetable Crops	1+1
6	H/SPICON-231	Spices and Condiments	1+1
		Total	9+6=15

Division of Floriculture and Landscaping

Sr. No.	Course No.	Course title	Credits
1	H/FL-111	Ornamental Horticulture	1+1
2	H/FL-232	Landscape Gardening	1+1
3	H/FL-243	Commercial Floriculture	2+1
4	H/FL-354	Protected Cultivation of Flower Crops	1+1
5	H/FL-365	Breeding and Seed Production of Ornamental Plants	1+1
		Total	6+5=11

Division of Post Harvest Technology

Division of Plant Protection

Sr. No.	Course No.	Course title	Credits
1	H/PHT-231	Post Harvest Management of Horticultural Crops	2+1
2	Н/РНТ-362	Processing and Value Addition of Horticultural Crops	1+2
		Total	3+3=6

Sr. No. Course No. **Course title** Credits 1 H/PATH-121 Fundamentals of Plant Pathology 1 + 12 H/PATH-232 Diseases of Vegetable, Ornamental and Spice Crops 2+13 H/PATH-242 Diseases of Fruits, Plantation, Aromatic and Medicinal Crops 2+14 H/PATH-354 Mushroom Culture 0+15 H/MIBO-111 Introductory Microbiology 1+16 H/MIBO-362 Applied Microbiology 0+17 H/ENTO-121 Fundamentals of Entomology 1 + 18 H/ENTO-352 Insect Pest Management of Fruit, Plantation, Medicinal and 2+1Aromatic Plants 9 H/ENTO-353 Insect Pest Management of Vegetable, Ornamental and Spice 2+1Crops Nematode Pests of Horticultural Crops and their Management 10 H/ENTO-364 1 + 111 H/ENTO-365 Apiculture 0+1

Division of Natural Resource Management

Sr. No.	Course No.	Course title	Credits
1	H/SSAC-111	Fundamentals of Soil Science	1+1
2	H/SSAC-244	Soil, Irrigation Water and Plant Analysis	0+1
3	H/SSAC-232	Fundamentals of Bio-chemistry	1+1
4	H/SSAC-122	Soil Fertility and Nutrient Management	2+1
5	Н/ВОТ-354	Environmental Science and Agro-ecology	1+1
6	H/AGRO-121	Water Management of Horticultural Crops	1+1
7	H/AGRO-232	Weed Management in Horticultural Crops	1+1
8	H/AGRO-243	Organic Farming	1+1

Total

12+11=23

		Total	10+10=20
10	H/ENGG-351	Farm Power and Machinery	1+1
9	H/AGROMET-111	Agriculture Meteorology	1+1

Division of Basic Science & Humanities

Sr. No.	Course No.	Course title	Credits
1	H/HORT-123	Growth and Development of Horticultural Crops	1+1
2	H/HORT-354	Introductory Agroforestry and Horti-silvipasture	1+1
3	H/BIOT-361	Fundamentals of Bio-technology	1+1
4	H/BOT-111	Principles of Genetics and Cytogenetics	2+1
5	H/BOT-122	Principles of Plant Breeding	1+1
6	H/BOT-123	Introductory Plant Physiology	1+1
7	H/AROMED-241	Aromatic and Medicinal Crops	1+1
8	H/EXTN-111	Fundamentals of Extension Education	1+1
9	H/EXTN-122	Agril. Communication and Journalism	0+1
10	H/EXTN-363	Entrepreneurship Development and Communication Skills	1+1
11	H/ECON-232	Horti-Business Management	2+0
12	H/ECON-111	Introductory Economics	2+0
13	H/STAT-121	Elementary Statistics	1+1
14	H/COMP-111	Computer Application	1+1
		Total	16+12=28
		Grand Total	67+53=120

Syllabus for CET Horticulture for 20 % is of following courses of B Sc. Agriculture for 10 % Weight:

Syllabus for CET Horticulture for 20 % Section "B" : Syllabus of following courses of B.Sc. Agriculture for 10 % Weightage				
Subject	Course No.	Title	Credits	
	AGRO-111	Principles of Agronomy	1+1=2	
	AGRO-112	Agricultural Meteorology	1+1=2	
	AGRO-113	Introductory Agriculture (Ancient heritage, agricultural scenario and gender equity in Agriculture)	1+0=1	
	AGRO-124	Water Management including Micro irrigation	2+1=3	
	AGRO-235	Field Crops ó (I) (Kharif Crops)	2+1=3	
Agronomy	AGRO-236	Practical Crop Production (I) (Kharif Crops)	0+1=1	
	AGRO-247	Field Crops-(II) (Rabi Crops)	2+1=3	
	AGRO-248	Practical Crop Production (II) (Rabi Crops)	0+1=1	
	AGRO-359	Weed Management	1+1=2	
	AGRO-3611	Organic and Rainfed farming	1+1=2	
		Total	12+10=22	
	BOT-111	Environmental Science	1+1=2	
	BOT-122	Principles of genetics	2+1=3	
	BOT-233	Principles of Plant Breeding	2+1=3	
Botany	BOT-234	Crop Physiology	2+1=3	
	BOT-245	Breeding of field and Horticultural crops	2+1=3	
	BOT-356	Principles of Plant Biotechnology	2+1=3	

	BOT-367	Principles of Seed Technology	2+1=3
		Total	13+7=20
	SSAC-111	Introduction to Soil Science	2+1=3
	SSAC-122	Soil Chemistry, Soil Fertility and Nutrient Management	2+1=3
Soil Science	SSAC-243	Manures, Fertilizers and Agrochemicals	2+1=3
	SSAC-354	Biochemistry	2+1=3
		Total	8+4=12
	PATH-111	Introductory Plant Pathology	1+1=2
	MIBO-121	Agricultural Microbiology	2+1=3
Plant Pathology	PATH-232	Principles of Plant Pathology	1+1=2
	PATH-243	Diseases of Field Crops and their Management	2+1=3
	PATH-354	Diseases of Horticultural Crops and their Management	2+1=3
		Total	8+5=13
	HORT-111	Production Technology of Fruit Crops	2+1=3
Horticulture	HORT-132	Production Technology of Vegetables and Flowers	1+1=2
-	HORT-243	Production Technology of Spices, Aromatics, Medicinal and Plantation Crops	1+1=2
	HORT-364	Post Harvest Management and Value addition of Fruits and Vegetable	1+1=2
	,	Total	5+4=9
	EXTN-111	Fundamentals of Rural Sociology and Educational Psychology	2+0=2
Agricultural	EXTN-122	Dimensions of Agricultural Extension	1+1=2
Extension	EXTN-353	Extension Methodologies for Transfer of Agricultural Technology	1+1=2
	EXTN-364	Entrepreneurship Development and Communication Skills	1+1=2
		Total	5+3=8
	ECON-121	Principles of Agricultural Economics	2+0=2
	ECON-232	Production Economics and Farm Management	1+1=2
	ECON-243	Agricultural Finance & Co-operation	1+1=2
Agricultural	ECON-354	Agricultural Marketing, Trade and Prices	1+1=2
Economics	ECON-365	Agri-Business Management	1+1=2
ECONOMICS	STAT-121	Statistics	1+1=2
	ı	Total	7+5=12
	ASDS-111	Livestock Production and Management	1+1=2
Animal Science & Dairy Science	ASDS-242	Livestock Breeding and Nutrition	1+1=2
Solonee	ASDS-353	Technology of milk and milk Products	1+1=2
	ASDS-364	Sheep & Goat production	1+1=2
	I	Total	4+4=8
	ENT-231	Insect Morphology and Systematic	2+1=3
Agricultural	ENT-242	Insect Ecology, Integrated Pest Management and Beneficial Insects	2+1=3
0			
Entomology	ENT-353	Crop Pests and Stored Grain Pests and their Management	2+1=3

		Total	7+4=11
A	ENGG-121	Fundamentals of Soil and Water Conservation Engineering	1+1=2
Agricultural Engineering	ENGG-232	Introduction to Computer and Applications	1+1=2
Engineering	ENGG-353	Farm Power and Machinery	1+1=2
	ENGG-364	Protected Cultivation and Post harvest Technology	1+1=2
		Total	4+4=8
		Grand Total	74+51=125

Section "C": Syllabus of following courses of B.Sc. Forestry for 10 %

Sr. No.	Name of department/ Discipline	No. of Credits	
1.	Agricultural Sciences	34	
	Agricultural Botany	7	
	F/BOT ó 111		
	Principles of Cytology and Genetics	2(1+1)	
	F/BOT ó 112 Principles of Plant Physiology	2(1+1)	
	F/BOT ó 113	2(1+1)	
	Introductory Botany	3(2+1) 2	
	Agricultural Economics	2	
	F/ ECON ó 111		
	Introductory Forest Economics	2(2+0)	[
	Soil Science	4	
	F/SSAC ó 111 Fundamentals of Geology and Soil Science	2(1+1)	
	F/SSAC6 232	2(1+1)	
	Fundamentals of Biochemistry	2(1+1)	
	Horticulture	3	
	F/HORT ó 111		
	Fundamentals of Horticulture	3(2+1)	Γ
	Extension Education	5	
	F/ EXTN ó 241		
	Fundamentals of Extension Education	2(1+1)	
	F/ EXTN ó 362 Entrepreneurship Development and Communication Skills 3 (2+1)		
	Agricultural Engineering	5	
	F/ENGG - 121		
	Principles of Hydrology, Soil and Water Conservation 3(2+1)		
	F/ENGG ó 351	$\mathbf{O}(1,1)$	
	Introduction to Computer Application Biotechnology	2(1+1)	
	5	-	
	F/BIOT-361 Fundamentals of Biotechnology	2(1+1)	
	Animal Science and Dairy Science	2(1+1)	
	F/ASDS ó 241		
	Livestock Management	2(1+1)	
	Agricultural Statistics	2	
	F/ STAT ó 351		1
	Elementary Statistics	2(1+1)	

	Agricultural Meteorology	2	
	F/AGROMET ó 111		
	Agricultural Meteorology	2(1+1)	
2.	Forest Biology and Tree Improvement	22	
	FBT ó 121 Dendrology FBT ó 122	3(2+1)	
	Forest Ecology, Biodiversity and Conservation FBT ó 123	3(2+1)	
	Tree Physiology FBT ó 234	2(1+1)	
	Principles of Tree Improvement FBT ó 235	3(2+1)	
	Tree Seed Technology FBT ó 246	2(1+1)	
	Fundamentals of Wildlife FBT ó 247	2(2+0)	
	Forest Pathology FBT ó 358	3(2+1)	
	Wild Life Management FBT ó 369	2(1+1)	
	Forest Entomology and Nematology	3(2+1)	
3.	Silviculture and Agroforestry	24	
	SAF ó 121 Principle and Practices of Silviculture SAF ó 232	4(3+1)	
	Forest Mensuration SAF ó 233	3(2+1)	
	Nursery Management SAF ó 244	2(1+1)	
	Silviculture of Indian Trees SAF ó 245	3(2+1)	
	World Forestry Systems SAF ó 356	2(2+0)	
	Silvicultural Systems SAF ó 357	2(2+0)	
	Plantation Forestry and Wasteland Development SAF ó 358	2(1+1)	
	Environmental Science SAF ó 369	3(2+1)	
4	Agro forestry System and Management	3(2+1)	
4.	Forest Product Utilization	17	
	FPU 6 121 Ethnobotany EPU 6 222	3(2+1)	·
	FPU ó 232 Wood Anatomy FPU ó 233	2(1+1)	
	Logging and Ergonomics FPU ó 244	2(1+1)	
	Wood Science and Technology FPU ó 245	3(2+1)	
	Wood Products and Utilization FPU 6 356	2(1+1)	
	Medicinal and Aromatic Plants FPU ó 367	3(2+1)	
	Utilization of Non-Timber Forest Products	3(2+1)	

5.	Natural Resource Management	23	
	NRM ó 121		
	Chemistry and Fertility of Forest Soils	3(2+1)	
	NRM ó 232		
	Forest Engineering and Survey	2(1+1)	
	NRM ó 233		
	Soil Survey and Remote sensing	3(2+1)	
	NRM ó 244		
	Forest Tribology and Anthropology	2(2+0)	
	NRM ó 355		
	Rangeland Management	3 (2+1)	
	NRM 6 356	and Evolution	2(1 + 1)
	Principles of Forest Economics, Project Planning NRM 6 367	and Evaluation	2(1+1)
	Forest Management, Policy and Legislation	3(2+1)	
	NRM ó 368		
	Forest Business Management	2(1+1)	
	NRM -369		
	Marketing and Trade of Forest Produce	3(2+1)	
	Total	120	

<u>Annexure: "D"</u> Section "A": Syllabus for CET in Forestry Stream for 80 %

Sr. No.	Name of department/ Discipline	No. of Credits	No. of Questions
1.	Agricultural Sciences	34	45
	Agricultural Botany	7	9
	F/BOT ó 111		
	Principles of Cytology and Genetics	2(1+1)	
	F/BOT ó 112		
	Principles of Plant Physiology	2(1+1)	
	F/ BOT 6 113		
	Introductory Botany	3(2+1)	
	Agricultural Economics	2	3
	F/ ECON ó 111		•
	Introductory Forest Economics	2(2+0)	•
	Soil Science	4	5
	F/SSAC ó 111		·
	Fundamentals of Geology and Soil Science	2(1+1)	
	F/SSACó 232		
	Fundamentals of Biochemistry	2(1+1)	1
	Horticulture	3	4
	F/HORT ó 111		·
	Fundamentals of Horticulture	<u>3(2+1)</u> 5	
	Extension Education	5	7
	F/ EXTN ó 241		•
	Fundamentals of Extension Education	2(1+1)	
	F/ EXTN ó 362		
	Entrepreneurship Development and Communication		1
	Agricultural Engineering	5	7
	F/ENGG 121		
	Principles of Hydrology, Soil and Water Conserva	ation $3(2+1)$	

	F/ENGG ó 351		
	Introduction to Computer Application	2(1+1)	
	Biotechnology	2(1+1) 2	3
	F/ BIOT-361		
		2(1 + 1)	
	Fundamentals of Biotechnology Animal Science and Dairy Science	2(1+1) 2	3
	•	2	5
	F/ASDS ó 241		
	Livestock Management	2(1+1) 2	
	Agricultural Statistics	2	3
	F/ STAT ó 351		
	Elementary Statistics	2(1+1) 2	
	Agricultural Meteorology	2	3
	F/AGROMET ó 111		
	Agricultural Meteorology	2(1+1)	
2.	Forest Biology and Tree Improvement	2(1+1)	29
2.			2)
	FBT 6 121		
	Dendrology	3(2+1)	
	FBT ó 122	2(2 . 1)	
	Forest Ecology, Biodiversity and Conservation FBT 6 123	3(2+1)	
	Tree Physiology	2(1+1)	
	FBT ó 234	2(1+1)	
	Principles of Tree Improvement	3(2+1)	
	FBT 6 235	5(2+1)	
	Tree Seed Technology	2(1+1)	
	FBT ó 246	_(- · -)	
	Fundamentals of Wildlife	2(2+0)	
	FBT ó 247	× ,	
	Forest Pathology	3(2+1)	
	FBT ó 358		
	Wild Life Management	2(1+1)	
	FBT 6 369		
	Forest Entomology and Nematology	3(2+1)	22
3.	Silviculture and Agroforestry	24	32
	SAF ó 121		
	Principle and Practices of Silviculture	4(3+1)	
	SAF ó 232		
	Forest Mensuration	3(2+1)	
	SAF 6 233		
	Nursery Management	2(1+1)	
	SAF ó 244		
	Silviculture of Indian Trees	3(2+1)	
	SAF 6 245 World Forestry Systems	2(2 + 0)	
	World Forestry Systems SAF ó 356	2(2+0)	
	SAF 0 550 Silvicultural Systems	2(2+0)	
	SAF 6 357	2(2+0)	
	Plantation Forestry and Wasteland Development	2(1+1)	
	SAF 6 358	-(- · •)	
	Environmental Science	3(2+1)	
	SAF ó 369	~ /	
	Agro forestry System and Management	3(2+1)	
4.	Forest Product Utilization	17	23
	FPU ó 121		
	Ethnobotany	3(2+1)	

	FPU 6 232		
	Wood Anatomy	2(1+1)	
	FPU ó 233		
	Logging and Ergonomics	2(1+1)	
	FPU 6 244		
	Wood Science and Technology	3(2+1)	
	FPU ó 245	0/1 1	
	Wood Products and Utilization FPU 6 356	2(1+1)	
	Medicinal and Aromatic Plants	3(2+1)	
	FPU ó 367		
	Utilization of Non-Timber Forest Products	3(2+1)	
5.	Natural Resource Management	23	31
	NRM ó 121		
	Chemistry and Fertility of Forest Soils	3(2+1)	
	NRM ó 232		
	Forest Engineering and Survey	2(1+1)	
	NRM 6 233		
	Soil Survey and Remote sensing NRM 6 244	3(2+1)	
	Forest Tribology and Anthropology	2(2+0)	
	NRM ó 355	2(2+0)	
	Rangeland Management	3(2+1)	
	NRM ó 356		
	Principles of Forest Economics, Project Planning a	and Evaluation	2(1+1)
	NRM ó 367		
	Forest Management, Policy and Legislation	3(2+1)	
	NRM 6 368		
	Forest Business Management	2(1+1)	
	NRM -369	2(2 . 1)	
	Marketing and Trade of Forest Produce	3(2+1)	1(0
	Total	120	160

Syllabus for CET Forestry for 20 % Section "B": Syllabus of following courses of B.Sc. Agriculture for 10 %

Subject	Course No.	Title	Credits
	AGRO-111	Principles of Agronomy	1+1=2
	AGRO-112	Agricultural Meteorology	1+1=2
	AGRO-113	Introductory Agriculture (Ancient heritage, agricultural scenario and gender equity in Agriculture)	1+0=1
Agronomy	AGRO-124	Water Management including Micro irrigation	2+1=3
Agronomy	AGRO-235	Field Crops ó (I) (Kharif Crops)	2+1=3
	AGRO-236	Practical Crop Production (I) (Kharif Crops)	0+1=1
	AGRO-247	Field Crops-(II) (Rabi Crops)	2+1=3
	AGRO-248	Practical Crop Production (II) (Rabi Crops)	0+1=1
	AGRO-359	Weed Management	1+1=2
	AGRO-3611	Organic and Rainfed farming	1+1=2
	1	Total	12+10=22

	BOT-111	Environmental Science	1+1=2
	BOT-122	Principles of genetics	2+1=3
	BOT-233	Principles of Plant Breeding	2+1=3
Dotony	BOT-234	Crop Physiology	2+1=3
Botany	BOT-245	Breeding of field and Horticultural crops	2+1=3
	BOT-356	Principles of Plant Biotechnology	2+1=3
	BOT-367	Principles of Seed Technology	2+1=3
		Total	13+7=20
	SSAC-111	Introduction to Soil Science	2+1=3
Soil Science	SSAC-122	Soil Chemistry, Soil Fertility and Nutrient Management	2+1=3
	SSAC-243	Manures, Fertilizers and Agrochemicals	2+1=3
	SSAC-354	Biochemistry	2+1=3
	1	Total	8+4=12
	PATH-111	Introductory Plant Pathology	1+1=2
	MIBO-121	Agricultural Microbiology	2+1=3
Plant Pathology	PATH-232	Principles of Plant Pathology	1+1=2
	PATH-243	Diseases of Field Crops and their Management	2+1=3
	PATH-354	Diseases of Horticultural Crops and their Management	2+1=3
		Total	8+5=13
	HORT-111	Production Technology of Fruit Crops	2+1=3
	HORT-132	Production Technology of Vegetables and Flowers	1+1=2
Horticulture	HORT-243	Production Technology of Spices, Aromatics, Medicinal and Plantation Crops	1+1=2
	HORT-364	Post Harvest Management and Value addition of Fruits and Vegetable	1+1=2
		Total	5+4=9
	EXTN-111	Fundamentals of Rural Sociology and Educational Psychology	2+0=2
Agricultural	EXTN-122	Dimensions of Agricultural Extension	1+1=2
Extension	EXTN-353	Extension Methodologies for Transfer of Agricultural Technology	1+1=2
	EXTN-364	Entrepreneurship Development and Communication Skills	1+1=2
		Total	5+3=8
	ECON-121	Principles of Agricultural Economics	2+0=2
	ECON-232	Production Economics and Farm Management	1+1=2
Agricultural	ECON-243	Agricultural Finance & Co-operation	1+1=2
Economics	ECON-354	Agricultural Marketing, Trade and Prices	1+1=2
	ECON-365	Agri-Business Management	1+1=2
	STAT-121	Statistics	1+1=2
		Total	7+5=12

	ASDS-111	Livestock Production and Management	1+1=2		
Animal Science	ASDS-242	Livestock Breeding and Nutrition	1+1=2		
& Dairy Science	ASDS-353	Technology of milk and milk Products	1+1=2		
	ASDS-364	Sheep & Goat production	1+1=2		
		Total	4+4=8		
	ENT-231	Insect Morphology and Systematic	2+1=3		
Agricultural Entomology	ENT-242	Insect Ecology, Integrated Pest Management and Beneficial Insects	2+1=3		
Linomotogy	ENT-353	Crop Pests and Stored Grain Pests and their Management	2+1=3		
	ENT-364	Introductory Nematology	1+1=2		
		Total	7+4=11		
A grieultunel	ENGG-121	Fundamentals of Soil and Water Conservation Engineering	1+1=2		
Agricultural	ENGG-232	Introduction to Computer and Applications	1+1=2		
Engineering	ENGG-353	Farm Power and Machinery	1+1=2		
	ENGG-364	Protected Cultivation and Post harvest Technology	1+1=2		
	Total				
Grand Total					

Section " C ": Syllabus of following courses of B.Sc. Hort for 10 % Weightage Division of Fruit Science

Sr. No.	Course No.	Course title	Credits
1	H/FS-231	Tropical and Subtropical Fruits	2+1
2	H/FS-242	Breeding of Fruit and Plantation Crops	2+1
3	H/FS-243	Arid Fruit Crops	1+1
4	H/FS-354	Temperate and Plantation Fruit Crops	2+1
5	H/HORT-111	Fundamentals of Horticulture	2+1
6	H/HORT-122	Plant Propagation and Nursery Management	2+1
		Total	11+6=17

Division of Vegetable Science

Sr. No.	Course No.	Course title	Credits
1	H/VS-231	Tropical and Subtropical Vegetable Crops	2+1
2	H/VS-242	Temperate Vegetable Crops	1+1
3	H/VS-353	Breeding of Vegetable Crops	2+1
4	H/VS-364	Seed Production of Vegetable Crops	2+1
5	H/VS-365	Protected Cultivation of Vegetable Crops	1+1
6	H/SPICON-231	Spices and Condiments	1+1
		Total	9+6=15

Division of Floriculture and Landscaping

Sr. No.	Course No.	Course title	Credits
1	H/FL-111	Ornamental Horticulture	1+1
2	H/FL-232	Landscape Gardening	1+1
3	H/FL-243	Commercial Floriculture	2+1
4	H/FL-354	Protected Cultivation of Flower Crops	1+1

5	H/FL-365	Breeding and Seed Production of Ornamental Plants	1+1
		Total	6+5=11

Sr. No.	Course No.	Course title	Credits
1	H/PHT-231 Post Harvest Management of Horticultural Crops		2+1
2	H/PHT-362	Processing and Value Addition of Horticultural Crops	1+2
		Total	3+3=6
Division of	of Plant Protection		
Sr. No.	Course No.	Course title	Credits
1	H/PATH-121	Fundamentals of Plant Pathology	1+1
2	H/PATH-232	Diseases of Vegetable, Ornamental and Spice Crops	2+1
3	H/PATH-242	Diseases of Fruits, Plantation, Aromatic and Medicinal Crops	2+1
4	H/PATH-354	Mushroom Culture	0+1
5	H/MIBO-111	Introductory Microbiology	1+1
6	H/MIBO-362	Applied Microbiology	0+1
7	H/ENTO-121	Fundamentals of Entomology	1+1
8	H/ENTO-352	Insect Pest Management of Fruit, Plantation, Medicinal and Aromatic Plants	2+1
9	H/ENTO-353	Insect Pest Management of Vegetable, Ornamental and Spice Crops	2+1
10	H/ENTO-364	Nematode Pests of Horticultural Crops and their Management	1+1
11	H/ENTO-365	Apiculture	0+1
		Total	12+11=23

Division of Post Harvest Technology

Division of Natural Resource Management

Sr. No.	Course No.	Course title	Credits
1	H/SSAC-111	Fundamentals of Soil Science	1+1
2	H/SSAC-244	Soil, Irrigation Water and Plant Analysis	0+1
3	H/SSAC-232	Fundamentals of Bio-chemistry	1+1
4	H/SSAC-122	Soil Fertility and Nutrient Management	2+1
5	Н/ВОТ-354	Environmental Science and Agro-ecology	1+1
6	H/AGRO-121	Water Management of Horticultural Crops	1+1
7	H/AGRO-232	Weed Management in Horticultural Crops	1+1
8	H/AGRO-243	Organic Farming	1+1
9	H/AGROMET-111	Agriculture Meteorology	1+1
10	H/ENGG-351	Farm Power and Machinery	1+1
		Total	10+10=20

Division of Basic Science & Humanities

Sr.	Course No.	Course title	Credits
-----	------------	--------------	---------

No.			
1	H/HORT-123	Growth and Development of Horticultural Crops	1+1
2	H/HORT-354	Introductory Agroforestry and Horti-silvipasture	1+1
3	H/BIOT-361	Fundamentals of Bio-technology	1+1
4	H/BOT-111	Principles of Genetics and Cytogenetics	2+1
5	Н/ВОТ-122	Principles of Plant Breeding	1+1
6	H/BOT-123	Introductory Plant Physiology	1+1
7	H/AROMED-241	Aromatic and Medicinal Crops	1+1
8	H/EXTN-111	Fundamentals of Extension Education	1+1
9	H/EXTN-122	Agril. Communication and Journalism	0+1
10	H/EXTN-363	Entrepreneurship Development and Communication Skills	1+1
11	H/ECON-232	Horti-Business Management	2+0
12	H/ECON-111	Introductory Economics	2+0
13	H/STAT-121	Elementary Statistics	1+1
14	H/COMP-111	Computer Application	1+1
		Total	16+12=28
		Grand Total	67+53=120

<u>Annexure: "E"</u> Syllabus for CET in Home Science Stream for 100% List of the courses for CET along with weightage

Sr. No.	Course No.	Course Title	Credits	Weightage
1	FSN 111	Elements of Food science	2+1	8
2	FRM 111	Management of Family Resources	2+0	6
3	TAD 111	Fundamentals of clothing construction	1+2	8
4	HECM 111	Home Science Extension & Rural Development	2+1	8
5	HDFS 111	Life Span Development	2+1	8
6	FSN 122	Introduction to Human Nutrition	2+1	8
7	HDFS 122	Early Childhood Development, Care & Education	2+1	8
8	TAD 122	Textile Science & Care	2+1	8
9	FRM 122	Family Economics	1+1	5
10	FRM 123	Consumer Education	1+1	5
11	HECM 122	Communication & Instructional Technology	1+2	8
12	FSN 233	Normal and Therapeutic Nutrition	2+1	8
13	FRM 234	Housing and space Management	1+2	8
14	HDFS 233	Children with Developmental Challenges	2+1	8
15	HECM 233	Diffusion and adoption of Home stead technology	2+1	8
16	TAD 233	Apparel Designing & Construction	1+2	8
17	FSN 244	Food preservation and Storage	1+2	8
18	FRM 245	Fundamentals of Art & Design	1+2	8
19	TAD 244	Fundamentals of Textile Designing	2+1	8
20	HDFS 244	Dynamics of Marriage & Family	2+1	8
21	HECM 244	Programme Development	1+2	8
22	FSN ND 351*	Food Science	2+1	5
23	FSN ND 361*	Advanced Human Nutrition	3+0	5
24	FRM ID 351*	Space Designing-I (Residential)	1+2	5
25	FRM ID 361*	Interior Designing & Decoration	1+2	5
26	HDFS MEC 362*	Organisation & Management of ECCD Programmes	2+3	8
27	TAD TD 353*	Principles of Design Application	1+3	6
28	HE IT CM 353*	Training & Human Resource Development	1+3	6
		Total Credit	85	

*Specialization courses

Annexure: "F"

Section "A" : Syllabus for CET in Agricultural Biotechnology Stream for 80 %	
A. Department of Plant Biotechnology	

Sr. No.	Title	Credits
PB-111	Fundamentals of Genetics	2+1=3
PB-122	Cell Biology	2+1=3
PB-123	Introduction to Plant Biotechnology	2+1=3
PB-234	Plant Breeding Techniques	2+1=3
PB-235	Molecular Markers in Plant Breeding	1+1=2
PB-246	Plants Cell and Tissue Culture	2+1=3
PB-357	Biotechnology of Biotic and Abiotic Stress Resistance	2+1=3
PB-358	Biodiversity Conservation	2+1=3
PB-369	Introduction to Bioinformatics	1+2=3
PB-3610	Biosafety Issues	2+0=2
PB 4712	Techniques in Genetic Transformation	1+3=4
PB 4713	PCR Techniques and its Application	1+3=4
PB 4714	Legal issues in GMOøs and LMOøs	1+3=4
PB 4715	Plant Genomics	1+3=4
	Tota	al 22+22=44
B. Dept. of	Biochemistry and Molecular Biology	
Sr. No.	Title	Credits
Bio-111	Basic Biochemistry	2+1=3
Bio-122	Enzymology	2+1=3
Bio-123	Microbial Genetics	2+1=3
Bio-234	Molecular Biology	2+1=3
Bio-235	Plant Metabolic Pathways	2+1=3
Bio-236	Elements of Immunology	1+1=2
Bio-247	Techniques in Biochemistry and Molecular Biology	2+2=4
Bio-358	Recombinant DNA Technology	2+1=3
Bio-369	Molecular Plant Virology	2+1=3
BIO 4710	Advances in Recombinant Technology	1+3=4
BIO 4711	Secondary Metabolites of Commercial Importance	1+3=4
BIO 4712	Immunological techniques and its Application	1+3=4
BIO 4713	Proteins and Proteomics	1+3=4
BIO 4714	Enzyme Technology	1+3=4
	Total	22+25=47
C. Departm	ent of Post –harvest and Food Biotechnology	•
Sr. No.	Title	Credits
FB-121	Human Nutrition	1+1=2
FB-232	Industrial Microbiology and Fermentation Technology	2+2=4
FB-243	Enzyme Biotechnology in Food Processing	2+1=3
FB-244	Post-harvest Biotechnology of Food Grains	2+1=3
FB-355	Technological Applications in Food Processing	1+1=2
FB-356	Post-harvest Biotechnology of Horticultural Crops	2+1=3
FB-367	Food and Nutrition Security of GM Food crops	1+1=2
FB 478	Cereal Biotechnology	2+2=4
FB 479	Fruit and Vegetable Biotechnology	2+2=4
ED 4710		1.2.4

1+3=4

1+3=4

2+2=4 **19+20=39**

Total

FB 4710

FB 4711

FB 4712

Brewing Technology

Patenting Inventions in Food Biotechnology

Wine Technology

D. Department of Animal Biotechnology

Sr. No.	Title	Credits
AB-231	Basics in Animal Biotechnology	2+1=3
AB-242	Animal Cell Culture	2+1=3
AB-243	Biotechnology of Ruminant Feed Utilization	2+1=3
AB-354	Dairy Process Biotechnology	2+1=3
AB-355	Livestock Genome	2+1=3
AB-366	Animal Genetic Engineering	2+1=3
AB 477	Techniques in Animal Cell Culture	1+3=4
AB 478	Transgenic for improvements in animals	1+3=4
AB 479	Artificial Insemination techniques	1+3=4
AB 4710	Advances in Dairy Microbiology	1+3=4
AB 4711	Probiotics in milk and milk products	1+3=4
	Total	17+21=38

E. Department of Crop Science

Sr. No.	Title	Credits
CS 111	Principles of Plant Physiology	2+1=3
CS 112	Field Crop Production	2+1=3
CS 113	Introductory Entomology	1+1=2
CS 124	Fundamentals of Plant Pathology	1+1=2
CS 125	Agricultural Microbiology	1+1=2
CS 126	Horticultural Crop Production	2+1=3
CS 237	Greenhouse Technology and Protected cultivation	1+1=2
CS 248	BioStatistics	1+1=2
CS 249	Intellectual Property Rights	1+0=1
CS 3510	Computer Application in Biotechnology	1+2=3
CS 3611	Management of Major Insect Pests and Diseases of Field and Horticultural Crops	1+1=2
CS 3612	Marketing and Export of Biotechnological Products	1+1=2
	Total	15+12=27
	Total Credit	95+100=195

Subject	Course No.	Title	Credits
	AGRO-111	Principles of Agronomy	1+1=2
	AGRO-112	Agricultural Meteorology	1+1=2
Agronomy	AGRO-113	Introductory Agriculture (Ancient heritage,	1+0=1
		agricultural scenario and gender equity in	
		Agriculture)	
	AGRO-124	Water Management including Micro irrigation	2+1=3
	AGRO-235	Field Crops ó (I) (Kharif Crops)	2+1=3
	AGRO-247	Field Crops-(II) (Rabi Crops)	2+1=3
	AGRO-359	Weed Management	1+1=2
	AGRO-3610	Farming Systems and Sustainable Agriculture	1+1=2
	AGRO-3611	Organic and Rainfed farming	1+1=2
		Total	12+8=20
	BOT-111	Environmental Science	1+1=2
	BOT-122	Principles of genetics	2+1=3
	BOT-233	Principles of Plant Breeding	2+1=3
Botany	BOT-234	Crop Physiology	2+1=3
	BOT-245	Breeding of field and Horticultural crops	2+1=3
	BOT-356	Principles of Plant Biotechnology	2+1=3
	BOT-367	Principles of Seed Technology	2+1=3
		Total	13+7=20
	SSAC-111	Introduction to Soil Science	2+1=3
Soil Science	SSAC-122	Soil Chemistry, Soil Fertility and Nutrient Management	2+1=3
Son Science	SSAC-243	Manures, Fertilizers and Agrochemicals	2+1=3
	SSAC-354	Biochemistry	2+1=3
		Total	8+4=12
	PATH-111	Introductory Plant Pathology	1+1=2
	MIBO-121	Agricultural Microbiology	2+1=3
Plant Pathology	PATH-232	Principles of Plant Pathology	1+1=2
	PATH-243	Diseases of Field Crops and their Management	2+1=3
	PATH-354	Diseases of Horticultural Crops and their Management	2+1=3
		Total	8+5=13
	HORT-111	Production Technology of Fruit Crops	2+1=3
	HORT-232	Production Technology of Vegetables and Flowers	1+1=2
	HORT-243	Production Technology of Spices, Aromatics,	1+1=2

Syllabus for CET Agricultural Biotechnology for 20% Section "B": Syllabus of following courses of B.Sc. (Agri.) for 8% weightage

	HORT-364	Post Harvest Management and Value addition	1+1=2
		of Fruits	
		Total	5+4=9
	AHDS-111	Livestock Production and Management	1+1=2
Animal Science & Dairy Science	AHDS-242	Livestock Breeding and Nutrition	1+1=2
& Dany Science	AHDS-353	Technology of milk and milk Products	1+1=2
	Total		
	ENT-231	Insect Morphology and Systematic	2+1=3
Agricultural	ENT-242	Insect Ecology, Integrated Pest Management and Beneficial Insects	2+1=3
Entomology	ENT-353	Crop Pests and Stored Grain Pests and their	2+1=3
		Management	
		Total	6+3=9
		Grand Total	55+34=89

Section "C" : Syllabus of following courses of B.Sc. (Hort.) for 3% weightage

Division of Fruit Science

Sr. No.	Course No.	Course title		Credits
1	H/FS-231	Tropical and Subtropical Fruits		2+1
2	H/FS-242	Breeding of Fruit and Plantation Crops		2+1
3	H/FS-243	Arid Fruit Crops		1+1
4	H/FS-354	Temperate and Plantation Fruit Crops		2+1
5	H/HORT-111	Fundamentals of Horticulture		2+1
6	H/HORT-122	Plant Propagation and Nursery Management		2+1
			Total	11+6=17

Division of Vegetable Science

Sr. No.	Course No.	Course title	Credits
1	H/VS-231	Tropical and Subtropical Vegetable Crops	2+1
2	H/VS-242	Temperate Vegetable Crops	1+1
3	H/VS-353	Breeding of Vegetable Crops	2+1
4	H/VS-364	Seed Production of Vegetable Crops	2+1
5	H/VS-365	Protected Cultivation of Vegetable Crops	1+1
6	H/SPICON-231	Spices and Condiments	1+1
		Total	9+6=15

Division of Floriculture and Landscaping

Sr. No.	Course No.	Course title	Credits
1	H/FL-111	Ornamental Horticulture	1+1
2	H/FL-232	Landscape Gardening	1+1
3	H/FL-243	Commercial Floriculture	2+1
4	H/FL-354	Protected Cultivation of Flower Crops	1+1
5	H/FL-365	Breeding and Seed Production of Ornamental Plants	1+1
		Total	6+5=11

Division of Post Harvest Technology

Sr. No.	Course No.	Course title		Credits
1	H/PHT-231	Post Harvest Management of Horticultural Crops		2+1
2	H/PHT-362	Processing and Value Addition of Horticultural Crops		1+2
			Total	3+3=6

Division of Plant Protection

Sr. No.	Course No.	Course title	Credits
1	H/PATH-121	Fundamentals of Plant Pathology	1 + 1
2	H/PATH-232	Diseases of Vegetable, Ornamental and Spice Crops	2+1
3	H/PATH-242	Diseases of Fruits, Plantation, Aromatic and	2+1
		Medicinal Crops	
4	H/MIBO-111	Introductory Microbiology	1+1
5	H/MIBO-362	Applied Microbiology	0+1
6	H/ENTO-121	Fundamentals of Entomology	1+1
7	H/ENTO-352	Insect Pest Management of Fruit, Plantation,	2+1
		Medicinal and Aromatic Plants	
8	H/ENTO-353	Insect Pest Management of Vegetable, Ornamental	2+1
		and Spice Crops	
9	H/ENTO-364	Nematode Pests of Horticultural Crops and their	1 + 1
		Management	
		Total	12+9=21

Division of Natural Resource Management

Sr.	Course No.	Course title	Credits
No.			
1	H/SSAC-111	Fundamentals of Soil Science	1+1
2	H/SSAC-232	Fundamentals of Bio-chemistry	1+1
3	H/SSAC-122	Soil Fertility and Nutrient Management	2+1
4	H/BOT-354	Environmental Science and Agro-ecology	1+1
5	H/AGRO-121	Water Management of Horticultural Crops	1+1
6	H/AGRO-232	Weed Management in Horticultural Crops	1+1
7	H/AGRO-243	Organic Farming	1+1
8	H/AGROMET-111	Agriculture Meteorology	1+1
9	H/ENGG-351	Farm Power and Machinery	1+1
		Total	10+9=19

Division of Basic Science & Humanities

Sr.	Course No.	Course title	Credits
No.			
1	H/HORT-123	Growth and Development of Horticultural Crops	1+1
2	H/HORT-354	Introductory Agroforestry and Horti-silvipasture	1+1
3	H/BIOT-361	Fundamentals of Bio-technology	1+1
4	H/BOT-111	Principles of Genetics and Cytogenetics	2+1
5	H/BOT-122	Principles of Plant Breeding	1+1
6	H/BOT-123	Introductory Plant Physiology	1+1
7	H/AROMED-241	Aromatic and Medicinal Crops	1+1
		Total	8+7=15
		Grand Total	59+45=104

r. No.	Name of department/ Discipline	No. of Credits	
1.	Agricultural Sciences	16	
	Agricultural Botany	7	
	F/BOT ó 111		
	Principles of Cytology and Genetics	2(1+1)	
	É F/BOT ó 112		
	Principles of Plant Physiology	2(1+1)	
	É F/ BOT ó 113		
	Introductory Botany	3(2+1)	
	Soil Science	4	
	F/SSAC ó 111		
	Fundamentals of Geology and Soil Science	2(1+1)	
	F/SSACó 232		
	Fundamentals of Biochemistry	2(1+1)	
	Horticulture	3	
	F/HORT ó 111		
	Fundamentals of Horticulture	3(2+1)	
	Biotechnology	2	
	F/ BIOT-361		
	Fundamentals of Biotechnology	2 (1+1)	
2.	Forest Biology and Tree Improvement	23	
	FBT ó 121		
	Dendrology	3 (2+1)	
	FBT ó 122		
	Forest Ecology, Biodiversity and Conservation FBT 6 123	3(2+1)	
	Tree Physiology	2(1+1)	
	FBT ó 234		
	Principles of Tree Improvement	3 (2+1)	
	FBT ó 235		
	Tree Seed Technology	2 (1+1)	
	FBT 6 246		
	Fundamentals of Wildlife	2 (2+0)	
	FBT ó 247	2(0, 1)	
	Forest Pathology	3 (2+1)	
	FBT 6 358 Wild Life Management	2(1 + 1)	
	Wild Life Management FBT ó 369	2 (1+1)	
	Forest Entomology and Nematology	3(2+1)	
3.	Silviculture and Agroforestry	24	
	SAF 6 121		
	Principle and Practices of Silviculture	4(3+1)	
	SAF ó 232		
	Forest Mensuration	3(2+1)	

Section "D ": Syllabus of following courses of B.Sc. Forestry for 3 % weightage

	SAF ó 233	
	Nursery Management	2(1+1)
	SAF ó 244	
	Silviculture of Indian Trees	3 (2+1)
	SAF 6 245 World Forestry Systems	2(2+0)
	SAF 6 356	2(2+0)
	Silvicultural Systems	2(2+0)
	SAF 6 357	-(-:)
	Plantation Forestry and Wasteland Development	2(1+1)
	SAF ó 358	
	Environmental Science	3 (2+1)
	SAF ó 369	
	Agro forestry System and Management	3 (2+1)
4.	Forest Product Utilization	18
	FPU ó 121	
	Ethnobotany	3 (2+1)
	FPU 6 232	0 (1 - 1)
	Wood Anatomy	2 (1+1)
	FPU 6 233 Logging and Ergonomics	2 (1+1)
	FPU 6 244	2(1+1)
	Wood Science and Technology	3 (2+1)
	FPU 6 245	
	Wood Products and Utilization	2 (1+1)
	FPU ó 356	
	Medicinal and Aromatic Plants	3 (2+1)
	FPU ó 367	
	FPU 6 367 Utilization of Non-Timber Forest Products	3 (2+1)
5.	FPU 6 367 Utilization of Non-Timber Forest Products Natural Resource Management	
5.	FPU 6 367 Utilization of Non-Timber Forest Products Natural Resource Management NRM 6 121	3 (2+1) 23
5.	FPU 6 367 Utilization of Non-Timber Forest Products Natural Resource Management NRM 6 121 Chemistry and Fertility of Forest Soils	3 (2+1)
5.	FPU 6 367 Utilization of Non-Timber Forest Products Natural Resource Management NRM 6 121 Chemistry and Fertility of Forest Soils NRM 6 232	3 (2+1) 23 3 (2+1)
5.	FPU 6 367 Utilization of Non-Timber Forest Products Natural Resource Management NRM 6 121 Chemistry and Fertility of Forest Soils NRM 6 232 Forest Engineering and Survey	3 (2+1) 23
5.	FPU ó 367Utilization of Non-Timber Forest ProductsNatural Resource ManagementNRM ó 121Chemistry and Fertility of Forest SoilsNRM ó 232Forest Engineering and SurveyNRM ó 233	3 (2+1) 23 3 (2+1) 2 (1+1)
5.	FPU 6 367 Utilization of Non-Timber Forest Products Natural Resource Management NRM 6 121 Chemistry and Fertility of Forest Soils NRM 6 232 Forest Engineering and Survey	3 (2+1) 23 3 (2+1)
5.	FPU ó 367Utilization of Non-Timber Forest ProductsNatural Resource ManagementNRM ó 121Chemistry and Fertility of Forest SoilsNRM ó 232Forest Engineering and SurveyNRM ó 233Soil Survey and Remote sensingNRM ó 244Forest Tribology and Anthropology	3 (2+1) 23 3 (2+1) 2 (1+1)
5.	FPU ó 367Utilization of Non-Timber Forest ProductsNatural Resource ManagementNRM ó 121Chemistry and Fertility of Forest SoilsNRM ó 232Forest Engineering and SurveyNRM ó 233Soil Survey and Remote sensingNRM ó 244Forest Tribology and AnthropologyNRM ó 355	3 (2+1) 23 3 (2+1) 2 (1+1) 3 (2+1) 2 (2+0)
5.	FPU ó 367Utilization of Non-Timber Forest ProductsNatural Resource ManagementNRM ó 121Chemistry and Fertility of Forest SoilsNRM ó 232Forest Engineering and SurveyNRM ó 233Soil Survey and Remote sensingNRM ó 244Forest Tribology and AnthropologyNRM ó 355Rangeland Management	3 (2+1) 23 3 (2+1) 2 (1+1) 3 (2+1)
5.	FPU ó 367Utilization of Non-Timber Forest ProductsNatural Resource ManagementNRM ó 121Chemistry and Fertility of Forest SoilsNRM ó 232Forest Engineering and SurveyNRM ó 233Soil Survey and Remote sensingNRM ó 244Forest Tribology and AnthropologyNRM ó 355Rangeland ManagementNRM ó 356	3 (2+1) 23 3 (2+1) 2 (1+1) 3 (2+1) 2 (2+0) 3 (2+1)
5.	FPU ó 367Utilization of Non-Timber Forest ProductsNatural Resource ManagementNRM ó 121Chemistry and Fertility of Forest SoilsNRM ó 232Forest Engineering and SurveyNRM ó 233Soil Survey and Remote sensingNRM ó 244Forest Tribology and AnthropologyNRM ó 355Rangeland ManagementNRM ó 356Principles of Forest Economics, Project Planning and Evaluation	3 (2+1) 23 3 (2+1) 2 (1+1) 3 (2+1) 2 (2+0)
5.	FPU ó 367Utilization of Non-Timber Forest ProductsNatural Resource ManagementNRM ó 121Chemistry and Fertility of Forest SoilsNRM ó 232Forest Engineering and SurveyNRM ó 233Soil Survey and Remote sensingNRM ó 244Forest Tribology and AnthropologyNRM ó 355Rangeland ManagementNRM ó 356Principles of Forest Economics, Project Planning and EvaluationNRM ó 367	3 (2+1) 23 3 (2+1) 2 (1+1) 3 (2+1) 2 (2+0) 3 (2+1) 2 (1+1) 2 (1+1)
5.	FPU 6 367Utilization of Non-Timber Forest ProductsNatural Resource ManagementNRM 6 121Chemistry and Fertility of Forest SoilsNRM 6 232Forest Engineering and SurveyNRM 6 233Soil Survey and Remote sensingNRM 6 244Forest Tribology and AnthropologyNRM 6 355Rangeland ManagementNRM 6 356Principles of Forest Economics, Project Planning and EvaluationNRM 6 367Forest Management, Policy and Legislation	3 (2+1) 23 3 (2+1) 2 (1+1) 3 (2+1) 2 (2+0) 3 (2+1)
5.	FPU 6 367Utilization of Non-Timber Forest ProductsNatural Resource ManagementNRM 6 121Chemistry and Fertility of Forest SoilsNRM 6 232Forest Engineering and SurveyNRM 6 233Soil Survey and Remote sensingNRM 6 244Forest Tribology and AnthropologyNRM 6 355Rangeland ManagementNRM 6 356Principles of Forest Economics, Project Planning and EvaluationNRM 6 367Forest Management, Policy and LegislationNRM 6 368	3 (2+1) 23 3 (2+1) 2 (1+1) 3 (2+1) 2 (2+0) 3 (2+1) 2 (1+1) 3 (2+1) 2 (1+1) 3 (2+1) 3 (2+1)
5.	FPU 6 367Utilization of Non-Timber Forest ProductsNatural Resource ManagementNRM 6 121Chemistry and Fertility of Forest SoilsNRM 6 232Forest Engineering and SurveyNRM 6 233Soil Survey and Remote sensingNRM 6 244Forest Tribology and AnthropologyNRM 6 355Rangeland ManagementNRM 6 356Principles of Forest Economics, Project Planning and EvaluationNRM 6 367Forest Management, Policy and Legislation	3 (2+1) 23 3 (2+1) 2 (1+1) 3 (2+1) 2 (2+0) 3 (2+1) 2 (1+1)
5.	FPU ó 367Utilization of Non-Timber Forest ProductsNatural Resource ManagementNRM ó 121Chemistry and Fertility of Forest SoilsNRM ó 232Forest Engineering and SurveyNRM ó 233Soil Survey and Remote sensingNRM ó 244Forest Tribology and AnthropologyNRM ó 355Rangeland ManagementNRM ó 356Principles of Forest Economics, Project Planning and EvaluationNRM ó 367Forest Management, Policy and LegislationNRM ó 368Forest Business Management	3 (2+1) 23 $3 (2+1)$ $2 (1+1)$ $3 (2+1)$ $2 (2+0)$ $3 (2+1)$ $2 (1+1)$ $3 (2+1)$ $3 (2+1)$

Sr.	Course	Course Title	Credits
No.	No.		
1	FST-111	Principles of Food Processing	2+1=3
2	FST-112	Food Production Trends and Programs	2+0=2
3	FST-123	Post harvest Management of Fruit and	2+1=3
		Vegetable	
4	FST-124	Cereal Processing	2+1=3
5	FST-235	Legume and Oilseed Technology	2+1=3
6	FST-236	Meat, Poultry and Fish Technology	2+1=3
7	FST-237	Wheat Milling and Baking Technology	2+1=3
8	FST-238	Confectionery Technology	1+1=2
9	FST-249	Fruit and Vegetable Processing	2+1=3
10	FST-2410	Food Quality	1+1=2
11	FST-2411	Processing of Milk and Milk Products	1+1=2
12	FST-2412	Spice and Flavor Technology	2+1=3
13	FST-3513	Food Industry By-Products and Waste	1+1=2
		Utilization	
14	FST-3514	Carbonated Beverage Technology	1+1=2
15	FST-3615	Product Development and Formulation	1+1=2
16	FST-3616	Speciality Foods	2+1=3
17	FST-3617	Extrusion Technology	1+1=2
18	FST-3618	Quality Assurance and Certification	2+1=3
		Total	29+17=46

Section "E": Syllabus of following courses of B.Tech. (Food Science) for 3% weightage Department of Food Science and Technology

Department of Food Chemistry and Nutrition

Sr.	Course	Course Title		Credits
No.	No.			
1	FCN-111	Bio-chemistry		2+1=3
2	FCN-112	Food Chemistry-I		2+1=3
3	FCN-123	Food Chemistry óII		2+1=3
4	FCN-124	Human Nutrition		2+1=3
5	FCN-235	Techniques in Food Analysis		1+2=3
6	FCN-246	Food Additives		2+1=3
7	FCN-247	Environmental Science		2+1=3
			Total credits	13+8= 21

Department of Food and Industrial Microbiology

Sr.	Course	Course Title	Credits
No.	No.		
1	FIM-111	Fundamentals of Microbiology	2+1=3
2	FIM-122	Food Microbiology	2+1=3
3	FIM-233	Fermentation and Industrial Microbiology	2+1=3
4	FIM-244	Food Safety and Microbial Standards	2+1=3
5	FIM-355	Food Bio-technology	2+1=3
6	FIM-366	Food Hygiene and Sanitation	2+1=3
		Total credits	s 12+6= 18

Sr.	Course	Course Title	Credits
No.	No.		
1	FTBM-351	Co-operation, Marketing and Finance	2+1=3
2	FTBM-352	Business Management and International Trade	2+0=2
	FTBM-363	Entrepreneurship Development and	1+1=2
		Communication Skills	
4	FTBM-364	Food Laws and Regulations	2+1=3
		Total credits	7+3=10
		Grand Total	61+34=95

Department of Food Trade and Business Management

Section "F": Syllabus of following courses of B.F.Sc. for 3 % weightage

AQUACULTURE

PRINCIPLES OF AQUACULTURE FRESHWATER AQUACULTURE FISH NUTRITION AND FEED TECHNOLOGY CULTURE OF FISH FOOD ORGANISMS ORNAMENTAL FISH PRODUCTION AND MANAGEMENT COASTAL AQUACULTURE AND MARICULTURE FINFISH BREEDING AND HATCHERY MANAGEMENT SHELLFISH BREEDING AND HATCHERY MANAGEMENT DISEASES AND MANAGEMENT BIOTECHNOLOGY AND BIOINFORMATICS GENETICS AND BREEDING

FISHERIES BIOLOGY

TAXONOMY OF FINFISH ANATOMY AND BIOLOGY OF FINFISH TAXONOMY OF SHELLFISH ANATOMY AND BIOLOGY OF SHELLFISH INLAND FISHERIES PHYSIOLOGY OF FINFISHES AND SHELLFISHES MARINE FISHERIES FISH STOCK ASSESSMENT AND MANAGEMENT

Fisheries Technology

PRINCIPLES OF BIOCHEMISTRY FUNDAMENTALS OF MICROBIOLOGY FOOD CHEMISTRY AND FISH IN NUTRITION BIOCHEMICAL TECHNIQUES AND INSTRUMENTATION FREEZING TECHNOLOGY THERMAL PROCESSING AND PACKAGING TECHNOLOGY FISH PRODUCT AND BY PRODUCT TECHNOLOGY FISHERY MICROBIOLOGY AND QUALITY ASSURANCE

<u>Annexure: "G"</u> Syllabus for CET in Agricultural Engineering Stream for 100 % 1) Basic Science and Computer Technology

Course Number	Course Title	Credits
BS-MATH-111	Engineering Mathematics-I	3(2+1)
BS-PHY-112	Engineering Physics	3(2+1)
BS-CT-113	Computer Programming and Data Structures	3(1+2)
BS-MATH-124	Engineering Mathematics-II	3(2+1)
BS-CT-125	Database Management and Internet Applications	2(0+2)
BS-MATH-236	Engineering Mathematics-III	3(2+1)
BS-STAT-237	Statistical Methods	2(1+1)
	Total	19(10+9)

2) Agricultural Science

Course Number	Course Title	Credits
AG-111	Agronomy	2(1+1)
AG-112	Horticulture	2(1+1)
AG-113	Animal Sciences and Dairy Science	2(1+1)
AG-124	Soil Science	2(1+1)
AG-245	Agribusiness Management and Trade	2(2+0)
AG-366	Entrepreneurship Development and Communication Skills	2(1+1)
	Total	12(7+5)

3) Department of Farm Machinery and Power

Course Number	Course Title	Credits
FMP-111	Workshop Practice	2(0+2)
FMP-112	Engineering Drawing	2(0+2)
FMP-123	Workshop Technology	2(1+1)
FMP-124	Machine Drawing and Computer Graphics	2(0+2)
FMP-235	Theory of Machines	3(2+1)
FMP-236	Farm Power	2(1+1)
FMP-247	Farm Machinery and Equipment-I	2(1+1)
FMP-248	Tractor System and Control	2(1+1)
FMP-359	Farm Machinery and Equipment-II	2(1+1)
FMP-3610	Machine Design	3(2+1)
FMP-3611	Field Operation and Maintenance of Tractor and Farm	1(0+1)
	Machinery	
	Total	23(9+14)

Course Number	Course Title		Credits
SWCE-121	Surveying and Leveling		3(1+2)
SWCE-232	Soil Mechanics		3(2+1)
SWCE-233	Watershed Hydrology		3(2+1)
SWCE-244	Soil and Water Conservation Engineering		3(2+1)
SWCE-355	Soil and Water Conservation Structures		3(2+1)
SWCE-366	Watershed Planning and Management		3(2+1)
		Total	18(11+7)

4) Department of Soil and Water Conservation Engineering

5) Department of Irrigation and Drainage Engineering

Course Number	Course Title	Credits
IDE-231	Fluid Mechanics	3(2+1)
IDE-242	Irrigation Engineering	3(2+1)
IDE-353	Groundwater, Wells and Pumps	3(2+1)
IDE-354	Drainage Engineering	3(2+1)
IDE-365	Advanced Irrigation System Design	2(1+1)
IDE-366	Minor Irrigation and Command Area Development	3(2+1)
	Total	17(11+6)

6) Department of Agricultural Process Engineering

Course Number	Course Title	Credits
APE-121	Thermodynamics	3(2+1)
APE-232	Engineering Properties of Biological Materials and Food Quality	2(1+1)
APE-243	Heat and Mass Transfer	2(1+1)
APE-244	Crop Process Engineering	3(2+1)
APE-355	Dairy and Food Engineering	3(2+1)
APE-356	Drying of Farm Crop	2(1+1)
APE-357	Storage Engineering	2(1+1)
APE-368	Refrigeration and Air Conditioning	2(1+1)
	Total	19(11+8)

Course Number	Course Title	Credits
FS-121	Engineering Mechanics	3(2+1)
FS-242	Building Materials	2(1+1)
FS-353	Strength of Material	3(2+1)
FS-354	Agricultural Structures and Environmental Control	3(2+1)
FS-365	Design of Structures	3(2+1)
	Total	14(9+5)

7) Department of Farm Structure

8) Department of Electrical and Other Energy Sources

Course Number	Course Title	Credits
EOES-111	Engineering Chemistry	2(1+1)
EOES-122	Applied Electronics and Instrumentation	3(2+1)
EOES-233	Electrical Circuits	3(2+1)
EOES-244	Electrical Machines and Power Utilization	3(2+1)
EOES-365	Renewable Energy Sources	3(2+1)
	Total	14(9+5)
	Total credit	136(77+59)

<u>Annexure: "H"</u> Syllabus for CET in B.Tech Food Science Stream for 100 %

Sr.	Course	Course Title	Credits
No.	No.		
1	FST-111	Principles of Food Processing	2+1=3
2	FST-112	Food Production Trends and Programs	2+0=2
3	FST-123	Post harvest Management of Fruit and	2+1=3
		Vegetable	
4	FST-124	Cereal Processing	2+1=3
5	FST-235	Legume and Oilseed Technology	2+1=3
6	FST-236	Meat, Poultry and Fish Technology	2+1=3
7	FST-237	Wheat Milling and Baking Technology	2+1=3
8	FST-238	Confectionery Technology	1+1=2
9	FST-249	Fruit and Vegetable Processing	2+1=3
10	FST-2410	Food Quality	1+1=2
11	FST-2411	Processing of Milk and Milk Products	1+1=2
12	FST-2412	Spice and Flavor Technology	2+1=3
13	FST-3513	Food Industry By-Products and Waste	1+1=2
		Utilization	
14	FST-3514	Carbonated Beverage Technology	1+1=2
15	FST-3615	Product Development and Formulation	1+1=2
16	FST-3616	Specialty Foods	2+1=3
17	FST-3617	Extrusion Technology	1+1=2
18	FST-3618	Quality Assurance and Certification	2+1=3
		Total	29+17=46

Department of Food Science and Technology

Department of Food Chemistry and Nutrition

Sr.	Course	Course Title	Credits
No.	No.		
1	FCN-111	Bio-chemistry	2+1=3
2	FCN-112	Food Chemistry-I	2+1=3
3	FCN-123	Food Chemistry óII	2+1=3
4	FCN-124	Human Nutrition	2+1=3
5	FCN-235	Techniques in Food Analysis	1+2=3
6	FCN-246	Food Additives	2+1=3
7	FCN-247	Environmental Science	2+1=3
		Total credits	13 + 8 = 21

Department of Food and Industrial Microbiology

Sr. No.	Course No.	Course Title	Credits
1	FIM-111	Fundamentals of Microbiology	2+1=3
2	FIM-122	Food Microbiology	2+1=3
3	FIM-233	Fermentation and Industrial Microbiology	2+1=3

		Total credits	12+6=18
6	FIM-366	Food Hygiene and Sanitation	2+1=3
5	FIM-355	Food Bio-technology	2+1=3
4	FIM-244	Food Safety and Microbial Standards	2+1=3

Department of Food Engineering

Sr.	Course No.	Course Title	Credits
No.			
1	FE-111	Engineering Drawing	0+1=1
2	FE-112	Fluid Mechanics and Hydraulics	1+1=2
3	FE-123	Energy Generation and Conservation	2+1=3
4	FE-124	Heat and Mass Transfer	1+1=2
5	FE-235	Food Processing Equipments-I	2+1=3
6	FE-236	Food Packaging	2+1=3
7	FE-247	Food Processing Equipments-II	2+1=3
8	FE-358	Refrigeration Engineering and Cold Chain	2+1=3
9	FE-359	Bio-Chemical Engineering	2+1=3
10	FE-3510	Instrumentation and Process Control	2+1=3
11	FE-3611	Food Plant Design and Layout	1+2=3
		Total credits	17+12=29

Department of Food Trade and Business Management

Sr.	Course	Course Title	Credits
No.	No.		
1	FTBM-351	Co-operation, Marketing and Finance	2+1=3
2	FTBM-352	Business Management and International Trade	2+0=2
3	FTBM-363	Entrepreneurship Development and	1+1=2
		Communication Skills	
4	FTBM-364	Food Laws and Regulations	2+1=3
		Total credits	7+3=10
		Grand Total	78+46=124

<u>Annexure: "I"</u> Section "A":Syllabus for CET in B.B.M. (Agri.) Stream for 80 %

1. Departments of Agricultural and Allied Sciences

Sr. No.	Course No.	Course Title	Credits
1	AGRO-111	Agro-Techniques of Principal Crops and Agro- Meteorology	3=2+1
2	AGRO-122	Farming Systems and Sustainable Agriculture	2=2+0
3	AGRO-233	Irrigation Water Management	2=1+1
4	HORT- 111	Production Management of Important Fruit Crops	2=1+1
5	HORT-232	Production Management of Important Vegetable and Floricultural Crops	2=1+1
6	HORT-243	Post Harvest Technology of Horticultural crops	3=2+1
7	BOT-111	Principles of Plant Biotechnology	2=1+1
8	BOT-122	Environmental Science	2=1+1
9	SSAC-121	Soil Fertility, Fertilizers and Nutrient Management	2=1+1
10	SSAC-232	Soil, Water and Plant analysis	2=0+2
11	ASDS- 231	Animal Production Management	2=1+1
12	ASDS-242	Value Addition in Animal Products	2=1+1
13	ENGG-121	Farm Structures and Green House technology	2=1+1
14	ENGG-232	Post-Harvest Technology of Cereals, Pulses, Oilseeds and Cash crops	2=1+1
15	ENT-121	Integrated Pest Management	2=1+1
16	PATH-231	Integrated Disease Management	2=1+1
17	PATH-362	Bio-fertilizers and Mushroom Production	2=1+1
18	EXTN-121	Entrepreneurship and Personality Development	2=2+0
19	EXTN-232	Communication Skills and Market-Led Extension for Business Management	2=1+1
20	EXTN-243	Consumers Psychology in Business Management	2=1+1
21	EXTN-354	Information Technology in Agri- Business	2=1+1
22	EXTN-365	Organizational Behaviour for Business Management	2=2+0
23	COMP-111	Introduction to Computer Applications	2=1+1
24	STAT-241	Business Statistics	3=2+1
		Total	51=29+22

2. Department of Agricultural Economics

Sr. No.	Course No.	Course Title	Credits
1	ECON- 111	Agricultural Economics and Natural Resource Economics	3=2+1
3	ECON- 112	Structure and Dynamics of Indian Agriculture	2=2+0
2	ECON-123	Farm Business Management	2=1+1
4	ECON-124	Money, Banking and International Trade	2=1+1

		Total	24 = 15 + 9
10	ECON-3610	Financial Management in Agri- Business	3=2+1
9	ECON-369	Planning, Formulation and Evaluation of Business Projects	3=1+2
8	ECON- 358	Research Methods in Social Sciences	2=1+1
6	ECON-357	Input-Output Measurement Techniques	2=1+1
7	ECON- 246	Indian Agricultural Policies	2=2+0
5	ECON-235	Agril. Co-operation, Institutions and Management	3=2+1

3. Department of Agricultural Marketing

Sr. No.	Course No.	Course Title	Credits
1	MKT-121	Introduction to Agricultural Marketing	2=1+1
3	MKT-232	Marketing Institutions and Organizations	3=2+1
2	MKT-233	Input Marketing Management	3=2+1
4	MKT-244	Rural Marketing and Market Infrastructure	3=2+1
5	MKT-245	Retail Marketing	3=2+1
7	MKT-356	Trading of Agricultural Commodities-I	2=1+1
6	MKT-357	Market and Trade Acts	2=2+0
8	MKT-368	Trading of Agricultural Commodities-II	2=1+1
		Total	20 = 13 + 7

4. Department of Agri-Business Management

Sr. No.	Course No.	Course Title	Credits
1	ABM-111	Introduction to Agri-Business Management	2=1+1
2	ABM-122	Agro-based Industrialization	2=2+0
3	ABM-233	Office Procedures for Agri-Business	1=0+1
4	ABM-244	Disaster Management in Agriculture	2=1+1
5	ABM-355	Inventory and Risk Management	2=1+1
6	ABM-356	Agro-tourism	2=1+1
7	ABM-357	Production Management, Planning and Control	2=1+1
8	ABM-358	Agro-Processing Managements	2=1+1
9	ABM-359	Marketing and Management Policies	2=1+1
10	ABM-3610	Agri-Business Operations, HRD and Strategic Management	2=2+0
11	ABM-3611	Product Promotion Methods	2=1+1
12	ABM-3612	Managerial Accounting	2=1+1
13	ABM-3613	Market Survey and Price Analysis	2=0+2
		Total	25=13+12
		GRANT TOTAL	120 = 70 + 50

Syllabus for CET B.B.M. (Agri.) for 20% SECTION "B": Syllabus of following courses of B.Tech. (Food Technology) for 2.50% weightage

Sr. No.	Course No.	Course Title	Credits
1	FST-111	Principles of Food Processing	2+1=3
2	FST-112	Food Production Trends and Programs	2+0=2
3	FST-123	Postharvest Management of Fruit and Vegetable	2+1=3
4	FST-124	Cereal Processing	2+1=3
5	FST-235	Legume and Oilseed Technology	2+1=3
6	FST-236	Meat, Poultry and Fish Technology	2+1=3
7	FST-237	Wheat Milling and Baking Technology	2+1=3
8	FST-238	Confectionery Technology	1+1=2
9	FST-249	Fruit and Vegetable Processing	2+1=3
10	FST-2410	Food Quality	1+1=2
11	FST-2411	Processing of Milk and Milk Products	1+1=2
12	FST-2412	Spice and Flavour Technology	2+1=3
13	FST-3513	Food Industry By-Products and Waste Utilization	1+1=2
14	FST-3514	Carbonated Beverage Technology	1+1=2
15	FST-3615	Product Development and Formulation	1+1=2
16	FST-3616	Speciality Foods	2+1=3
17	FST-3617	Extrusion Technology	1+1=2
18	FST-3618	Quality Assurance and Certification	2+1=3
		Total	29+17=46

1. Department of Food Science and Technology

2. Department of Food Chemistry and Nutrition

Sr. No.	Course No.	Course Title	Credits
1	FCN-111	Bio-chemistry	2+1=3
2	FCN-112	Food Chemistry-I	2+1=3
3	FCN-123	Food Chemistry óII	2+1=3
4	FCN-124	Human Nutrition	2+1=3
5	FCN-235	Techniques in Food Analysis	1+2=3
6	FCN-246	Food Additives	2+1=3
7	FCN-247	Environmental Science	2+1=3
		Total	13+8 = 21

3. Department of Food and Industrial Microbiology

Sr. No.	Course No.	Course Title	Credits
1	FIM-111	Fundamentals of Microbiology	2+1=3
2	FIM-122	Food Microbiology	2+1=3
3	FIM-233	Fermentation and Industrial Microbiology	2+1=3
4	FIM-244	Food Safety and Microbial Standards	2+1=3

5	FIM-355	Food Bio-technology	2+1=3
6	FIM-366	Food Hygiene and Sanitation	2+1=3
		Total	12+6=18

4. Department of Food Engineering

Sr. No.	Course No.	Course Title	Credits
1	FE-111	Engineering Drawing	0+1=1
2	FE-112	Fluid Mechanics and Hydraulics	1+1=2
3	FE-123	Energy Generation and Conservation	2+1=3
4	FE-124	Heat and Mass Transfer	1+1=2
5	FE-235	Food Processing Equipments-I	2+1=3
6	FE-236	Food Packaging	2+1=3
7	FE-247	Food Processing Equipments-II	2+1=3
8	FE-358	Refrigeration Engineering and Cold Chain	2+1=3
9	FE-359	Bio-Chemical Engineering	2+1=3
10	FE-3510	Instrumentation and Process Control	2+1=3
11	FE-3511	Food Plant Design and Layout	1+2=3
		Total	17+12=29

5. Department of Food Trade and Business Management

Sr. No.	Course No.	Course Title	Credits
1	FTBM-351	Co-operation, Marketing and Finance	2+1=3
2	FTBM-352	Business Management and International Trade	2+0=2
3	FTBM-363	Entrepreneurship Development and Communication Skills	1+1=2
4	FTBM-364	Food Laws and Regulations	2+1=3
5	FTBM-365	Seminar	0+1=1
		Total	7+4=11
		GRAND TOTAL	78+47 =125

SECTION "C": Syllabus of following courses of B.F.Sc. for 2.50% weightage

Sr. No.	Course No.	Name of the Department	Credits
1. DEP	ARTMENT : AQU	UACULTURE	
1	AQ.CUL. 111	Principles of Aquaculture	1+1=2
2	AQ.CUL. 122	Freshwater Aquaculture	2+1=3
3	AQ.CUL. 213	Fish Nutrition and Feed Technology	2+1=3
4	AQ.CUL. 214	Culture of fish food organisms	1+1=2
5	AQ.CUL. 225	Ornamental Fish Production and Management	1+1=2
6	AQ.CUL. 226	Coastal Aquaculture and Mari culture	2+1=3

		Total	17 +12 =29
11	AQ.CUL. 322	Generics and Breeding	1+1=2
10	AQ.CUL. 321	Biotechnology and Bio-informatics	1+1=2
9	AQ.CUL. 319	Diseases and Management	2+2=4
8	AQ.CUL. 318	Shellfish Breeding and Hatchery Management	2+1=3
7	AQ.CUL. 317	Finfish Breeding and Hatchery Management	2+1=3

2. DEF	2. DEPARTMENT : FISHERIES BIOLOGY				
1	F.BIOL. 111	Taxonomy of Finfish	1+2=3		
2	F.BIOL.112	Anatomy and Biology of Finfish	2+1=3		
3	F.BIOL.123	Taxonomy of Shellfish	1+2=3		
4	F.BIOL.124	Anatomy and Biology of Shellfish	2+1=3		
5	F.BIOL.215	Inland Fisheries	2+1=3		
6	F.BIOL.226	Physiology of Finishes and Shellfishes	2+1=3		
7	F.BIOL.317	Marine Fisheries	2+1=3		
8	F.BIOL.328	Fish Stock Assessment and Management	2+1=3		
		Total	14+10 =24		

3. DEI	3. DEPARTMENT : FISHERIES HYDROGRAPH				
1	F.HY.111	Meteorology and Geography	1+1=2		
2	F.HY.112	Techniques of Soil Analysis	1+1=2		
3	F.HY.113	Limnology	2+1=3		
4	F.HY.124	Physical Oceanography	2+1=3		
5	F.HY.125	Chemical Oceanography	1+1=2		
6	F.HY.226	Marine biology	1+1=2		
7	F.HY.317	Aquatic Biodiversity	2+1=3		
8	F.HY.328	Aquatic Pollution	1+1=2		
9	F.HY.329	Coastal Zone Management	1+0=1		
		Total	12+8=20		

4. DEP	4. DEPARTMENT : FISH PROCESSING TECHNOLOGY AND MICROBIOLOGY				
1	F.TECH.111	Principles of Biochemistry	1+1=2		
2	F.TECH.112	Fundamentals of Microbiology	1+1=2		
3	F.TECH.123	Food Chemistry and Fish in Nutrition	2+1=3		
4	F.TECH.124	Biochemical Techniques and Instrumentation	1+1=2		
5	F.TECH.215	Freezing Technology	2+1=3		
6	F.TECH.226	Thermal Processing and Packaging Technology	2+1=3		
7	F.TECH.317	Fish product and by product technology	2+2=4		
8	F.TECH.328	Fishery Microbiology and Quality Assurance	2+2=4		
		Total	13+10=23		

5. DEPARTMENT: FISH ENGINEERING			
1	F.ENGG. 121	Fishing Craft Technology	1+1=2
2	F.ENGG. 212	Fishing Gear Technology	1+1=2
3	F.ENGG. 213	Navigation and Seamanship	1+1=2
4	F.ENGG. 224	Fishing Technology	1+1=2

5	F.ENGG. 225	Aquaculture Engineering	1+1=2
6	F.ENGG. 316	Refrigeration and Equipment Engineering	1+1=2
		Total	6+6=12

6. DEI	6. DEPARTMENT : FISHERIES RESOURCES, ECONOMICS,				
	STATISTICS AND EXTENSION				
1	F.RESE. 111	Information and Communication Technology	1+1=2		
2	F.RESE.112	Elements of Statistics	1+1=2		
3	F.RESE.123	Business Organization and Personnel	1+0=1		
5		Management	1+0-1		
4	F.RESE.214	Fisheries Economics	2+1=3		
5	F.RESE.215	Rural Sociology and Extension Education	1+1=2		
6	F.RESE.216	Disaster Management	1+1=2		
7	F.RESE.227	Statistical Methods	1+1=2		
8	F.RESE.228	Extension Programme Planning	2+1=3		
9	F.RESE.321	Marketing Management	1+1=2		
10	F.RESE.322	Entrepreneurship Development and Finance	1+2=3		
11	F.RESE.329	Fisheries Administration and Legislation	2+0=2		
		Total	14+10=24		

SECTION "D": Syllabus of following courses of B.Sc. (Home Science) for 2.50% weightage

Sr. No.	Course No.	Course Title	Credits
1	FSN- 111	Elements of Food science	2+1
2	FRM- 111	Management of Family Resource	2+0
3	TAD- 111	Fundamentals of clothing construction	1+2
4	HECM- 111	Home Science Extension and Rural Development	2+1
5	HDFS-111	Life Span Development	2+1
6	FSN-122	Introduction to Human Nutrition	2+1
7	HDFS-122	Early Childhood Development, Care and	2+1
		Education	
8	TAD-122	Textile Science and Care	2+1
9	FRM-122	family economics	1+1
10	FRM-123	Consumer Education	1+1
11	HECM- 122	Communication and Instructional Technology	1+2
12	FSN -233	Normal and Therapeutic Nutrition	2+1
13	FRM- 234	Housing and space Management	1+2
14	HDFS- 233	Children with Developmental Challenges	2+1
15	HECM- 233	Diffusion and adoption of Home stead technology	2+1
16	TAD- 233	Apparel Designing and Construction	1+2
17	FSN- 244	Food preservation and Storage	1+2
18	FRM- 245	Fundamentals of Art and design	1+2
19	TAD- 244	Fundamentals of Textile Designing	2+1
20	HDFS- 244	Dynamics of Marriage and Family	2+1
21	HECM- 244	Programme Development	1+2
22	FSN ND- 351*	Food Science	2+1

23	FSN ND- 361*	Advanced Human Nutrition	3+0
24	FRM ID- 351*	Space Designing- (I (Residential)	1+2
25	FRM ID-361*	Interior Designing and Decoration	1+2
26	HDFS MEC-	Organization and Management Of ECCD	2+3
	362*	Programmers	
27	TAD TD- 353*	Principles of Design Application	1+3
28	HEIT CM- 353*	Training and Human Resource Development	1+3
GRAND TOTAL			85

SECTION "E": Syllabus of following courses of B.Tech. (Agril. Engg.) for 2.50% weightage

1. Basic Science and Computer Technology

Sr. No.	Course No.	Course Title	Credits
1	BS-MATH-111	Engineering Mathematics-I	3=2+1
2	BS-PHY-112	Engineering Physics	3=2+1
3	BS-CT-113	Computer Programming and Data Structures	3=1+2
4	BS-MATH-124	Engineering Mathematics-II	3=2+1
5	BS-CT-125	Database Management and Internet Applications	2=0+2
6	PYE-121	Physical Education (Non Credit)	
7	BS-MATH-236	Engineering Mathematics-III	3=2+1
8	BS-STAT-237	Statistical Methods	2=1+1
		Total	19=10+9

2. Department of Agricultural Science

Sr. No.	Course No.	Course Title	Credits
1	AG-111	Agronomy	2=1+1
2	AG-112	Horticulture	2=1+1
3	AG-113	Animal Sciences and Dairy Science	2=1+1
4	AG-124	Soil Science	2=1+1
5	AG-245	Agribusiness Management and Trade	2=2+0
6	AG-366	Entrepreneurship Development and Communication Skills	2=1+1
		Total	12=7+5

3. Department of Farm Machinery and Power

Sr. No.	Course No.	Course Title	Credits
1	FMP-111	Workshop Practice	2=0+2
2	FMP-112	Engineering Drawing	2=0+2
3	FMP-123	Workshop Technology	2=1+1
4	FMP-124	Machine Drawing and Computer Graphics	2=0+2

5	FMP-235	Theory of Machines	3=2+1
6	FMP-236	Farm Power	2=1+1
7	FMP-247	Farm Machinery and Equipment-I	2=1+1
8	FMP-248	Tractor System and Control	2=1+1
9	FMP-359	Farm Machinery and Equipment-II	2=1+1
10	FMP-3610	Machine Design	3=2+1
11	FMP-3611	Field Operation and Maintenance of Tractor and Farm Machinery	1=0+1
		Total	23=9+14

4. Department of Soil and Water Conservation Engineering

Sr. No.	Course No.	Course Title	Credits
1	SWCE-121	Surveying and Levelling	3=1+2
2	SWCE-232	Soil Mechanics	3=2+1
3	SWCE-233	Watershed Hydrology	3=2+1
4	SWCE-244	Soil and Water Conservation Engineering	3=2+1
5	SWCE-355	Soil and Water Conservation Structures	3=2+1
6	SWCE-366	Watershed Planning and Management	3=2+1
		Total	18=11+7

5. Department of Irrigation and Drainage Engineering

Sr. No.	Course No.	Course Title	Credits
1	IDE-231	Fluid Mechanics	3=2+1
2	IDE-242	Irrigation Engineering	3=2+1
3	IDE-353	Groundwater, Wells and Pumps	3=2+1
4	IDE-354	Drainage Engineering	3=2+1
5	IDE-365	Advanced Irrigation System Design	2=1+1
6	IDE-366	Minor Irrigation and Command Area	3=2+1
		Development	
		Total	17=11+6

6. Department of Agricultural Process Engineering

Sr. No.	Course No.	Course Title	Credits
1	APE-121	Thermodynamics	3(2+1)
2	APE-232	Engineering Properties of Biological Materials and Food Quality	2(1+1)
3	APE-243	Heat and Mass Transfer	2(1+1)
4	APE-244	Crop Process Engineering	3(2+1)
5	APE-355	Dairy and Food Engineering	3(2+1)

6	APE-356	Drying of Farm Crop	2(1+1)
7	APE-357	Storage Engineering	2(1+1)
8	APE-368	Refrigeration and Air Conditioning	2(1+1)
		Total	19=11+8

7. Department of Farm Structure

Sr. No.	Course No.	Course Title	Credits
1	FS-121	Engineering Mechanics	3=2+1
2	FS-242	Building Materials	2=1+1
3	FS-353	Strength of Material	3=2+1
4	FS-354	Agricultural Structures and Environmental Control	3=2+1
5	FS-365	Design of Structures	3=2+1
		Total	14=9+5

8. Department of Electrical and Other Energy Sources

Sr. No.	Course No.	Course Title	Credits
1	EOES-111	Engineering Chemistry	2=1+1
2	EOES-122	Applied Electronics and Instrumentation	3=2+1
3	EOES-233	Electrical Circuits	3=2+1
4	EOES-244	Electrical Machines and Power Utilization	3=2+1
5	EOES-365	Renewable Energy Sources	3=2+1
		Total	14=9+5
		GRAND TOTAL	136 =77+59

SECTION "F": Syllabus of following courses of B.Sc. (Agri.) for 2.50% weightage

Sr. No.	Course No.	Title	Credits
1	AGRO-111	Principles of Agronomy	1+1=2
2	AGRO-112	Agricultural Meteorology	1+1=2
3	AGRO-113	Introductory Agriculture (Ancient heritage,	1+0=1
		agricultural scenario and gender equity in Agriculture)	
4	AGRO-124	Water Management including Micro irrigation	2+1=3
5	AGRO-235	Field Crops-(I) (Kharif Crops)	2+1=3
6	AGRO-236	Practical Crop Production (I) (Kharif Crops)	0+1=1
7	AGRO-247	Field Crops -(II) (Rabi Crops)	2+1=3
8	AGRO-248	Practical Crop Production (II)(Rabi Crop)	0+1=1
9	AGRO-359	Weed Management	1+1=2
10	AGRO-3611	Organic and Rained farming	1+1=2
Total			12+10=22

1	BOT-111	Environmental Science	1+1=2
2	BOT-122	Principles of Genetics	2+1=3
3	BOT-233	Principles of Plant Breeding	2+1=3
4	BOT-234	Crop Physiology	2+1=3
5	BOT-245	Breeding of field and Horticultural crops	2+1=3
6	BOT-356	Principles of Plant Biotechnology	2+1=3
7	BOT-367	Principles of Seed Technology	2+1=3
Total			13+7=20

1	SSAC-111	Introduction to Soil Science	2+1=3
2	SSAC-122	Soil Chemistry, Soil Fertility and Nutrient	2+1=3
		Management	
3	SSAC-243	Manures, Fertilizers and Agrochemicals	2+1=3
4	SSAC-354	Biochemistry	2+1=3
Total			8+4=12
1	PATH-111	Introductory Plant Pathology	1+1=2
2	PATH-121	Agricultural Microbiology	2+1=3
3	PATH-232	Principles of Plant Pathology	1+1=2
4	PATH-243	Diseases of Field Crops and their	2+1=3
		Management	
5	PATH-354	Diseases of Horticultural Crops and their	2+1=3
		Management	
Total			8+5=13

1	HORT-111	Production Technology of Fruit Crops	2+1=3
2	HORT-132	Production Technology of Vegetables and	1+1=2
		Flowers	
3	HORT-243	Production Technology of Spices, Aromatics,	1+1=2
		Medicinal and Plantation Crops	
4	HORT-364	Post Harvest Management and Value addition	1+1=2
		of Fruits and Vegetable	
Total			5+4=9

1	EXTN-111	Fundamentals of Rural Sociology and educational Psychology	2+0=2
			1.1.0
2	EXTN-122	Dimensions of Agricultural Extension	1+1=2
3	EXTN-353	Extension Methodologies for Transfer of	1+1=2
		Agricultural Technology	
4	EXTN-364	Entrepreneurship Development and	1+1=2
		Communication Skills	
Total			5+3=8

1	ECON-121	Principles of Agricultural Economics	2+0=2
2	ECON-232	Production Economics and Farm	1+1=2
		Management	
3	ECON-243	Agricultural Finance and Co-operation	1+1=2
4	ECON-354	Agricultural Marketing, Trade and Prices	1+1=2
5	ECON-365	Agri-business Management	1+1=2
6	ECON-121	Statistics	1+1=2
Total			7+5=12

1	ASDS-111	Livestock Production and Management	1+1=2
2	ASDS-242	Livestock Breeding and Nutrition	1+1=2
3	ASDS-353	Technology of milk and Milk products	1+1=2
4	ASDS-364	Sheep and goat production	1+1=2
Total			4+4=8

1	ENT-231	Insect Morphology and Systematic	2+1=3
2	ENT-242	Insect Ecology, Integrated Pest	2+1=3
		Management and Beneficial Insects	
3	ENT-353	Crop Pests and Stored Grain Pests and their	2+1=3
		Management	
4	ENT-364	Introductory Nematology	1+1=2
Total			7+4=11

1	ENGG-121	Fundamentals of Soil and Water Consolation	1+1=2
		Engineering	
2	ENGG-232	Introduction to Computer and Applications	1+1=2
3	ENGG-353	Farm Power and Machinery	1+1=2
4	ENGG-364	Protected Cultivation and Post harvest	1+1=2
		Technology	
Total			4+4=8
GRAND TOTAL			73+50=123

SECTION "G": Syllabus of following courses of B.Sc. (Agri. Bio-Tech.) for 2.50% weightage

Sr. No.	Title	Credits
Bio-111	Basic Biochemistry	2+1=3
Bio-122	Enzymology	2+1=3
Bio-123	Microbial Genetics	2+1=3
Bio-234	Molecular Biology	2+1=3
Bio-235	Plant Metabolic Pathways	2+1=3
Bio-236	Elements of Immunology	1+1=2
Bio-247	Techniques in Biochemistry and Molecular Biology	2+2=4
Bio-358	Recombinant DNA Technology	2+1=3
Bio-369	Molecular Plant Virology	2+1=3
BIO 4710	Advances in Recombinant Technology	1+3=4

BIO 4711	Secondary Metabolites of Commercial Importance	1+3=4
BIO 4712	Immunological techniques and its Application	1+3=4
BIO 4713	Proteins and Proteomics	1+3=4
BIO 4714	Enzyme Technology	1+3=4
Total		22+25=47

2. Department of Plant Biotechnology

Sr. No.	Title	Credits
PB-111	Fundamentals of Genetics	2+1=3
PB-122	Cell Biology	2+1=3
PB-123	Introduction to Plant Biotechnology	2+1=3
PB-234	Plant Breeding Techniques	2+1=3
PB-235	Molecular Markers in Plant Breeding	1+1=2
PB-246	Plants Cell and Tissue Culture	2+1=3
PB-357	Biotechnology of Biotic and Abiotic Stress Resistance	2+1=3
PB-358	Biodiversity Conservation	2+1=3
PB-369	Introduction to Bioinformatics	1+2=3
PB-3610	Biosafety Issues	2+0=2
PB 4712	Techniques in Genetic Transformation	1+3=4
PB 4713	PCR Techniques and its Application	1+3=4
PB 4714	Legal issues in GMOøs and LMOøs	1+3=4
PB 4715	Plant Genomics	1+3=4
Total		22+22=44

3. Department of Crop Science

Sr. No.	Title	Credits
CS 111	Principles of Plant Physiology	2+1=3
CS 112	Field Crop Production	2+1=3
CS 113	Introductory Entomology	1+1=2
CS 124	Fundamentals of Plant Pathology	1+1=2
CS 125	Agricultural Microbiology	1+1=2
CS 126	Horticultural Crop Production	2+1=3
CS 237	Greenhouse Technology and Protected cultivation	1+1=2
CS 248	BioStatistics	1+1=2
CS 249	Intellectual Property Rights	1+0=1
CS 3510	Computer Application in Biotechnology	1+2=3
CS 3611	Management of Major Insect Pests and Diseases of Field	1+1=2
	and Horticultural Crops	
CS 3612	Marketing and Export of Biotechnological Products	1+1=2
Total		15+12=27

Sr. No.	Title	Credits
FB-121	Human Nutrition	1+1=2
FB-232	Industrial Microbiology and Fermentation Technology	2+2=4
FB-243	Enzyme Biotechnology in Food Processing	2+1=3
FB-244	Post-harvest Biotechnology of Food Grains	2+1=3
FB-355	Technological Applications in Food Processing	1+1=2
FB-356	Post-harvest Biotechnology of Horticultural Crops	2+1=3
FB-367	Food and Nutrition Security of GM Food crops	1+1=2
FB 478	Cereal Biotechnology	2+2=4
FB 479	Fruit and Vegetable Biotechnology	2+2=4
FB 4710	Brewing Technology	1+3=4
FB 4711	Wine Technology	1+3=4
FB 4712	Patenting Inventions in Food Biotechnology	2+2=4
Total		19+20=39

4. Department of Post Harvest and Food Biotechnology

5. Department of Animal Biotechnology

Sr. No.	Title	Credits
AB-231	Basics in Animal Biotechnology	2+1=3
AB-242	Animal Cell Culture	2+1=3
AB-243	Biotechnology of Ruminant Feed Utilization	2+1=3
AB-354	Dairy Process Biotechnology	2+1=3
AB-355	Livestock Genome	2+1=3
AB-366	Animal Genetic Engineering	2+1=3
AB 477	Techniques in Animal Cell Culture	1+3=4
AB 478	Transgenic for improvements in animals	1+3=4
AB 479	Artificial Insemination techniques	1+3=4
AB 4710	Advances in Dairy Microbiology	1+3=4
AB 4711	Probiotics in milk and milk products	1+3=4
Total	Total	
Total Cred	it	95+100=195

SECTION "H": Syllabus of following courses of B.Sc. (Forestry) for 2.50% weightage 1. Silviculture and Agroforestry (SAF)

Sr.No	Course No	Course title	Credits
1	SAF-121	Principles and Practices of Silviculture	3+1=4
2	SAF-232	Forest Mensuration	2+1=3
3	SAF-233	Nursery Management	1+1=2
4	SAF-244	Silviculture of Indian Trees	2+1=3
5	SAF-245	World Forestry System	2+0=2
6	SAF-356	Silviculture System	2+0=2
7	SAF-357	Plantation Forestry and Waste Land Development	1+1=2
8	SAF-358	Environmental Science	2+1=3
9	SAF-369	Agroforestry System and Management	2+1=3
	Total		17+7 = 24

Sr. No.	Course No	Course title	Credits
1	FBT-121	Dendrology	2+1=3
2	FBT-122	Forest Ecology, Biodiversity and Conservation	1+1=2
3	FBT-123	Tree physiology	1+1=2
4	FBT-234	Principles of Tree Improvement	2+1=3
5	FBT-235	Tree Seed Technology	1+1=2
6	FBT-246	Fundamentals of Wildlife	2+0=2
7	FBT-247	Forest Pathology	2+1=3
8	FBT-358	Wildlife Management	1+1=2
9	FBT-369	Forest Entomology and Nematology	2+1=3
	Total		14+8=22

2. Forest Biology and Tree Improvement (FBT)

3. Forest Products and Utilization (FPU)

Sr. No	Course No	Course title	Credits
1	FPU-121	Ethnobotony	1+1=2
2	FPU-232	Wood Anatomy	1+1=2
3	FPU-233	Logging and Ergonomics	1+1=2
4	FPU-244	Wood Science and Technology	2+1=3
5	FPU-245	Wood Product and Utilization	1+1=2
6	FPU-356	Medicinal and Aromatic Plant	2+1=3
7	FPU-367	Utilization of Non Timber Forest Product	2+1=3
		Total Credit	10+7=17

4. Natural Resource Management (NRM)

Sr. No	Course No.	Course title	Credits
1	NRM-121	Chemistry and Fertility of Forest Soil	2+1=3
2	NRM-232	Forest Engineering and Survey	1+1=2
3	NRM-233	Soil Survey and Remote Sensing	2+1=3
4	NRM-244	Forest Tribology and Anthropology	2+0=2
5	NRM-355	Rangeland Management	2+1=3
6	NRM-356	Principles of Forest Economics, Project Planning and Evaluation	1+1=2
7	NRM-367	Forest Management, Policy and Legislation	2+1=3
8	NRM-368	Forest Business Management	1+1=2
9	NRM-369	Marketing and Trade of Forest Produce	2+1=3
		Total Credit	15+8 =23

Sr.	Course No	Course title	Credit
No			
1	F/ECON-111	Introductory Forest Economics	2+0=2
2	F/SSAC-111	Fundamental of Geology and Soil Science	1+1=2
3	F/AGROMET-111	Agricultural Meteorology	1+1=2
4	F/BOT-111	Principles of Cytology and Genetics	1+1=2
5	F/BOT-112	Principles of Plant Physiology	1+1=2
6	F/BOT-113	Introductory Botany	2+1=3
7	F/HORT-111	Fundamentals of Horticulture	2+1=3
8	F/ENGG-121	Principles of Hydrology, Soil and Water Conservation	2+1=3
9	F/SSAC-232	Fundamental of Biochemistry	1+1=2
10	F/ASDS-241	Live Stock Management	1+1=2
11	F/STAT-351	Elementary Statistics	1+1=2
12	F/COMP-351	Introduction to Computer Application and Programming	1+1=2
13	F/ EXTN-241	Extension Education	1+1=2
14	F/BIOT-361	Fundamental of Biotechnology	1+1=2
15	F/EXTN-362	Entrepreneurship Development and Communication Skills	2+1=3
		Total	20+14=34
		GRAND TOTAL	76+44=120

5. Agriculture Sciences and Humanities

SECTION "I": Syllabus of following courses of B.Sc. (Hort.) for 2.50% weightage 1. Department of Horticulture

Sr. No	Course No	Course title	Credit
1	H/HORT-111	Fundamentals of Horticulture	3=2+1
2	H/FL-111	Ornamental Horticulture	2=1+1
3	H/HORT-122	Propagation and Nursery Management	3=2+1
4	H/HORT-123	Growth and Horticultural Crops	2=1+1
5	H/FS-231	Tropical and sub-tropical fruits	3=2+1
6	H/VS-231	Tropical and sub-tropical vegetables and Tuber crops	3=2+1
7	Н/РНТ-231	Post harvest management of horticultural crops	3=2+1
8	H/SPICON-231	Spices and Condiments	2=1+1
9	H/FL-232	Landscape gardening	2=1+1
10	H/FS-242	Breeding of fruit and Plantation crops	3=2+1
11	H/FS-243	Arid fruit crops	2=1+1
12	H/VS-242	Temperate Vegetables	2=1+1
13	H/FL-243	Commercial Floriculture	3=2+1
14	H/AROMED-241	Aromatic and Medicinal Plants	2=1+1
15	H/VS-353	Breeding of Vegetable Crops	3=2+1
16	H/FS-354	Temperate Fruit and Plantation Crops	3=2+1
17	H/HORT-354	Introductory Agroforestry and Horti silvipasture	2=1+1

18	H/FL-354	Protected Cultivation of Flower crops	2=1+1
19	H/FL-365	Breeding and Seed Production of	2=1+1
		Ornamental Crops	
20	H/VS-354	Seed Production in Vegetable Crops	3=2+1
21	H/VS-365	Protected Cultivation of Vegetable crops	2=1+1
22	H/PHT-362	Processing and Value Addition In	3=1+2
		Horticultural Crops	
		Total	55=32+23

2. Department of Soil Science and Agricultural Chemistry

Sr. No	Course No	Course title	Credits
1	H/SSAC-111	Fundamentals of Soil science	2=1+1
2	H/SSAC-122	Soil Fertility and Nutrient Management	3=2+1
3	H/SSAC-233	Fundamentals of Biochemistry	2=1+1
4	H/SSAC-244	Soil, Irrigation water and Plant analysis	1=0+1
		Total Credit	8=4+4

3. Department of Agricultural Botany

Sr. No	Course No	Course title	Credits
1	H/BOT-111	Principles of Genetics and Cytogenetics	3=2+1
2	H/BOT-122	Principles of Plant Breeding	2=1+1
3	H/BOT-123	Introductory Plant Physiology	2=1+1
4	H/BOT-354	Environmental science and Agro-ecology	2=1+1
5	H/BOT-361	Fundamentals of Biotechnology	2=1+1
		Total Credit	11=6+5

4. Department of Agricultural Extension

Sr. No	Course No	Course title	Credits
1	H/EXTN-111	Fundamentals of Extension Education	2=1+1
2	H/EXTN-122	Agricultural Communication and Journalism	1=0+1
3	H/EXTN-363	Entrepreneurship Development and Communication skill	2=1+1
		Total Credit	5=2+3

5. Department of Agricultural Economics

Course No	Course title	Credits
H/ECON-111	Introductory Economics	2=2+0
H/STAT-121	Elementary Statistics	2=1+1
H/ECON-242	Horti-Business Management	2=2+0
	Total	6=5+1
	H/ECON-111 H/STAT-121	H/ECON-111Introductory EconomicsH/STAT-121Elementary StatisticsH/ECON-242Horti-Business Management

6. Department of Agronomy

Sr. No	Course No	Course title	Credits
1	H/AGROMET-111	Agricultural Meteorology	2=1+1
2	H/AGRO-121	Water Management in Horticultural crops	2=1+1
3	H/AGRO-232	Weed Management in Horticultural crops	2=1+1
4	H/AGRO-243	Organic Farming	2=1+1
		Total	8=4+4

7. Department of Agricultural Plant Protection and Microbiology

Sr. No	Course No	Course title	Credits
1	H/MIBO-111	Introductory Microbiology	2=1+1
2	H/ MIBO -362	Applied Microbiology	1=0+1
3	H/PATH-121	Fundamentals of Plant Pathology	2=1+1
4	H/PATH-232	Disease of vegetables, ornamentals and spice crops	3=2+1
5	H/PATH-243	Disease of fruit, plantation, medicinal and aromatic crops	3=2+1
6	H/PATH-354	Mushroom culture	1=0+1
		Total	12=6+6

Sr. No	Course No	Course title	Credits
1	H/ENTO-121	Fundamentals of Entomology	2=1+1
2	H/ ENTO -352	Insect pest management of vegetables, ornamentals and spice crops	3=2+1
3	H/ ENTO -353	Insect pest management of fruit, plantation, medicinal and aromatic crops	3=2+1
4	H/ ENTO -364	Nematode pest of Horticultural crops and their management	2=1+1
5	H/ ENTO -365	Apiculture	1=0+1
		Total	11=6+5

8. Department of Agricultural Entomology

9. Department of Agricultural Engineering and allied

Sr. No	Course No	Course title	Credits
1	H/COMP-111	Computer Applications	2=1+1
2	H/ENGG-351	Farm power and Machinery	2=1+1
		Total	4=2+2
		GRAND TOTAL	120 = 67 + 53

Annexure: "J"

Syllabus for CET in Fisheries Science Stream for 100 % weightage

AQUACULTURE

PRINCIPLES OF AQUACULTURE FRESHWATER AQUACULTURE FISH NUTRITION AND FEED TECHNOLOGY CULTURE OF FISH FOOD ORGANISMS ORNAMENTAL FISH PRODUCTION AND MANAGEMENT COASTAL AQUACULTURE AND MARICULTURE FINFISH BREEDING AND HATCHERY MANAGEMENT SHELLFISH BREEDING AND HATCHERY MANAGEMENT DISEASES AND MANAGEMENT BIOTECHNOLOGY AND BIOINFORMATICS GENETICS AND BREEDING

FISHERIES BIOLOGY

TAXONOMY OF FINFISH ANATOMY AND BIOLOGY OF FINFISH TAXONOMY OF SHELLFISH ANATOMY AND BIOLOGY OF SHELLFISH INLAND FISHERIES PHYSIOLOGY OF FINFISHES AND SHELLFISHES MARINE FISHERIES FISH STOCK ASSESSMENT AND MANAGEMENT

Fisheries Hydrography

METEOROLOGY AND GEOGRAPHY TECHNIQUES OF SOIL ANALYSIS LIMNOLOGY PHYSICAL OCEANOGRAPHY CHEMICAL OCEANOGRAPHY MARINE BIOLOGY AQUATIC BIODIVERSITY AQUATIC POLLUTION COASTAL ZONE MANAGEMENT

Fisheries Technology

PRINCIPLES OF BIOCHEMISTRY FUNDAMENTALS OF MICROBIOLOGY FOOD CHEMISTRY AND FISH IN NUTRITION BIOCHEMICAL TECHNIQUES AND INSTRUMENTATION FREEZING TECHNOLOGY THERMAL PROCESSING AND PACKAGING TECHNOLOGY FISH PRODUCT AND BY PRODUCT TECHNOLOGY FISHERY MICROBIOLOGY AND QUALITY ASSURANCE

FISHERIES ENGINEERING

FISHING CRAFT TECHNOLOGY FISHING GEAR TECHNOLOGY NAVIGATION AND SEAMANSHIP FISHING TECHNOLOGY AQUACULTURE ENGINEERING REFREGERATION AND EQUIPMENT ENGINEERING

Fisheries Resources, Economics, Statistics and Extension Education

INFORMATION AND COMMUNICATION TECHNOLOGY ELEMENTS OF STATISTICS BUSINESS ORGANIZATION AND PERSONNEL MANAGEMENT FISHERIES ECONOMICS RURAL SOCIOLOGY AND EXTENSION EDUCATION DISASTER MANAGEMENT STATISTICAL METHODS EXTENSION PROGRAMME PLANNING FISHERIES ADMINISTRATION AND LEGISLATION MARKETING MANAGEMENT ENTERPRENEURSHIP DEVELOPMENT AND FINANCE COMMUNICATION SKILLS

Annexure : "K"

Sr. No.	Faculty	Weightage (%)	No. of questions
1	B.B.M. (Agri.)	11%	22
2	B.Sc. (Forestry)	11%	22
3	Agri. Biotechnology	11%	22
4	Agriculture	11%	22
5	Fisheries	11%	22
6	B.Tech. (Agril. Engineering)	11%	22
7	B.Sc. (Hort.)	11%	22
8	Food Tech	11%	22
9	B.Sc. (Hons.) Home Science Food and Nutrition	11%	22
10	General questions on PHT	1%	2
	Total	100%	200

Faculty-wise weightage for Post Harvest Management (PHM) CET

COMMON SYLLABUS FOR POST HARVEST MANAGEMENT (PHM)CET COURSE LIST

Sr. No.	Faculty	Course No.	COURSE LIST Course Title	Credit	Total credit
1	B.B.M. (Agri.)	HORT- 243	Post Harvest Technology of Horticultural Crops	2+1=3	3
		ENGG-232	Post Harvest Technology for cereals, pulses, Oilseeds and Cash Crops	1+1=2	2
		ASDS-242	Value Addition in Animal Products.	1+1=2	2
		ABM-358	Agro-Processing Management	1+1=2	2
		HORT-232	Production Management of Important Vegetables and Floriculture Crops	1+1=2	2
		ASDS-231	Animal Production Management	1+1=2	2
		HORT-111	Production Management of Important Fruit Crops	1+1=2	2
			То	tal credit	15
2	B.Sc.	FPU-356	Medicinal and Aromatic Plant	2+1=3	3
	(Forestry)	FPU-245	Wood Products and Utilization	1+1=2	2
		NRM-357	Principles of Forest Economics, Project Planning and Evaluation	1+1=2	2
		FPU-367	Utilization of Non-Timber Forest Products	2+1=3	3
		NRM-369	Forest Business Management	1+1=2	2
		NRM-3610	Marketing and Trade of Forest Produces	2+1=3	3
			То	tal credit	15
3	B.Sc. (Agril. Biotechnology)	FB- 244	Post Harvest Biotechnology of Food grains	2+1=3	3
		FB- 366	Post Harvest Biotechnology of Horticultural crops	2+1=3	3
		FB- 343	Enzyme Biotechnology in Food Processing	2+1=3	3
		FB- 232	Industrial Microbiology and Fermentation Technology	2+2=4	4
		FB- 355	Technological Applications in Food Processing	1+1=2	2
		1	То	tal credit	15
4	B.Sc. (Agri.)	HORT- 232	Production Technology of Vegetables and Flowers	1+1=2	2
		HORT- 243	Production Technology of Spices, Aromatic, Medicinal and Plantation crops	1+1=2	2
		HORT- 111	Production Technology of Fruits Crops	2+1=3	3
		HORT- 364	Post Harvest Management and Value Addition of Fruits and Vegetables	1+1=2	2
		ECON- 365	Agri. Business Management	1+1=2	2
		ENGG- 364	Protected Cultivation and Post Harvest Technology	1+1=2	2
	1		То	tal credit	13
5	B. F.Sc.	F-BIOL-328	Fish Stock Assessment and Management	2+1=3	3
	(Fisheries science)	F-TECH-123	Food Chemistry and Fish in Nutrition	2+1=3	3
		F-TECH-215	Freezing Technology	2+1=3	3
		F-TECH-226	Thermal Processing and Packaging Technology	2+1=3	3
		F-TECH-317	Fish Product and By Product Technology	2+2=4	4
			To	tal credit	16

		Overall credit			131
	1		Т	otal credit	15
		FSN-ND-353	Food Standards and Quality Control	2+1=3	3
	Science.)	FSN-ND-352	Food Analysis	1+2=3	3
		FSN-ND-351	Food science	2+1=3	3
		FSN-244	Food Preservation and Storage	1+2=3	3
9	B.Sc. (Home	AG-Econ-231	Marketing Management	2+1=3	3
	•			otal credit	15
		FIM-122	Food Microbiology	2+1=3	3
		FST-236	Meat Poultry and fish Technology	2+1=3	3
	technology)	FST-124	Cereal processing	2+1=3	3
		FST-123	Post Harvest management of fruits and vegetables	2+1=3	3
8	B. Tech (Food	FST-111	Principle and food processing	2+1=3	3
	T			otal credit	16
		H/ECON-242	Horti-Business Management	2+0=2	2
		H/FL-243	Commercial Floriculture	2+1=3	3
		H/SPICON-231	Spices and condiments	1+1=2	2
		H/PHT-231	Post harvest management of horticultural crops	2+1=3	3
		H/VS-231	Tropical and Sub-tropical Vegetables	2+1=3	3
7	B.Sc. (Hort.)	H/PS-231	Tropical and Sub-tropical fruits	2+1=3	3
			Т	otal credit	11
		APE- 357	Storage Engineering	1+1=2	2
		APE- 356	Drying of farm crops	1+1=2	2
		AG- 245	Agri. Business Management	2+0=2	2
	Engineering)	APE- 368	Refrigeration and Air Conditioning	1+1=2	2
6	B.Tech. (Agri.	APE- 244	Crop Process Engineering	2+1=3	3