

PARUL UNIVERSITY

R/Notification-1448/2024-25

Office of the Registrar
December 28, 2024

NOTIFICATION

Sub: - Regulations governing programmes offered under Faculty of Agriculture as per 6th Deans' Committee Report of ICAR, New Delhi

Ref: - (i) Proceedings of the Eighteenth Meeting of the Governing Body held on December 2, 2024

(ii) Approval of the President

PREAMBLE:

During the Eighteenth Meeting of the Governing Body held on December 2, 2024, the Governing Body approved Implementation of 6th Deans' Committee Report as notified by ICAR, New Delhi in conducting B.Sc (Hons.) Agriculture, B.Tech (Agricultural Engineering), B.Tech (Dairy Technology) and B.Tech (Food Technology) degree programmes from AY 2024-25. Hence, the Order.

ORDER:

The syllabus and regulations prescribed by 6th Deans' Committee Report as notified by ICAR, New Delhi for conducting B.Sc (Hons.) Agriculture, B.Tech (Agricultural Engineering), B.Tech (Dairy Technology) and B.Tech (Food Technology) degree programmes offered under Faculty of Agriculture be implemented from batch admitted from AY 2024-25 onwards.

The course structure and regulations prescribed by 6th Deans' Committee Report as notified by ICAR, New Delhi for conducting B.Sc (Hons.) Agriculture, B.Tech (Agricultural Engineering), B.Tech (Dairy Technology) and B.Tech (Food Technology) degree programmes offered under Faculty of Agriculture from batch admitted from AY 2024-25 onwards are enclosed in the annexure.

By Order


Registrar

To,

1. Dean, Faculty of Agriculture and Principal, COA
2. Dean, Faculty of Engineering & Technology
3. Principal, PIT
4. Director, IQAC
5. The Controller of Examinations
6. PUMIS Coordinator

Submitted to,

1. The President
2. The Provost

**COMMON ACADEMIC REGULATIONS FOR UNDERGRADUATE DEGREES IN
THE FACULTY OF AGRICULTURE, PARUL UNIVERSITY
Effective from first semester of Academic Year 2024-2025**

Parul University Vadodara Gujarat has started courses with the permission of Government of Gujarat under faculty of Agriculture Since, 2016. The Course curriculum and syllabus are followed as per recommendation of Dean Committees of ICAR. Now University is going to implement Academic Rules and Regulations as per the recommendations of Sixth Dean committee of ICAR under the courses of Faculty of Agriculture from the first semester of Academic year 2024-25.

1. SHORT TITLE:

These Common Academic Regulations may be called the 'Rules' for the award of four years degree programme of B.Sc. (Hons.) Agriculture / B.Tech. (Agricultural Engineering) / B.Tech. (Dairy Technology) and B.Tech. (Food Technology) in the faculty of Agriculture.

2. COMMENCEMENT:

These academic regulations shall come into force from the beginning of the first semester of the academic year 2024-2025.

3. DEFINITIONS:

In these academic regulations unless the context otherwise requires – Following definitions may to be added at appropriate place.

- a) **'Academic year'** means the year normally commencing from the month of June/July and ending in the month of April/ May of the following calendar year and shall consist of two semesters (one odd + one even).
- b) **'Admission'** means admission of students in B.Sc. (Hons.) Agriculture / B.Tech. (Agricultural Engineering)/ B.Tech. (Dairy Technology) and B.Tech. (Food Technology) in the faculty of Agriculture.
- c) **'A Group'** means the group comprises of the subjects of Physics, Chemistry and Mathematics or any other subjects included in future in the Science Stream of the Higher Secondary School Certificate Examination (Standard XII, 10+2 pattern or new pattern of NEP 2020).
- d) **'AB Group'** means the group comprises of the subjects of Physics, Chemistry, Mathematics and Biology in the Science Stream of Higher Secondary School Certificate Examination (Standard XII, 10+2 pattern or as per pattern of NEP 2020).
- e) **'B Group'** means the group comprises of the subjects of Physics, Chemistry and Biology in the Science Stream of the Higher Secondary School Certificate Examination (Standard XII, 10+2 Pattern Or as per pattern of NEP 2020).
- f) **'Course'** also referred to, as 'papers/subject' is a component of the programme. The courses should define learning objectives and learning outcomes. A course may be designed to comprise lectures/tutorials/field work/ outreach activities / project work / vocational Training / viva / seminars / assignments / presentations / self-study/ Skill Enhancement Course/ RAWE: Industrial Attachment /Experiential Learning / Hands-on Training/ Project Work /Internship / Study Tours etc. or a combination of some of these.
- g) **'Course Content'** means a concise outline of the subject-matter of a course laid down by the respective faculty and approved by the Academic Council of Parul University from time to time based on the recommendations of Dean's Committee Report of Indian Council of Agricultural Research to meet the academic standards.
- h) **'Curriculum'** means the aggregate of courses of the study given in the University after acquiring approval of Academic Council of Parul University from time to time

based on the recommendations of Dean's Committee Report of Indian Council of Agricultural Research for a particular field of study to meet the prescribed requirements for a degree.

- i) **'Credit'** means one-hour learning in theory or minimum two hours learning in laboratory/field/tutorial/ In-plant training/ RAWE Programme per week.
 - j) **Choice Based Credit System (CBCS):** The CBCS provides choice for students to select from the prescribed courses (elective or skill enhancement courses).
 - k) **Credit Based Semester System (CBSS):** The system of awarding a degree in terms of number of credits to be completed by the students.
 - l) **'Semester'** consists of 110 working days including semester end examinations.
 - m) **Regular Students:** Any student who has registered for any semester of the programme.
 - n) **'Grade Point'** means It is determined by dividing the total marks obtained by a student (out of 100) by 10 and expressed upto two decimal places.
 - o) **Semester Grade Point Average (SGPA):** It is a measure of performance of work done in a semester. It is ratio of total credit points secured by a student in various courses registered in a semester and the total course credits taken during that semester. It shall be expressed up to two decimal places.
 - p) **Cumulative Grade Point Average (CGPA):** It is a measure of overall cumulative performance of a student over all semesters. The CGPA is the ratio of total credit points secured by a student in various courses in all semesters and the sum of the total credits of all courses in all the semesters. It is expressed up to two decimal places.
Formula: $CGPA = \Sigma (\text{Grade Point} \times \text{Credit Hours}) / \text{Total Credit Hours}$ until the Last Semester. CGPA represents cumulative performance up to any stage of the course.
 - q) **Overall Grade Point Average (OGPA):** If a subject is passed on a second attempt, the Grade Point from the second attempt is considered in CGPA.
The final CGPA will be named Overall Grade Point Average (OGPA) and mentioned in the final transcript.
 - r) **'Field of Study'** means the specialized subject of knowledge in which bachelor' degree is offered by the University.
 - s) **'Higher Secondary School Certificate Examination (HSCE)'** means the examination conducted by the Gujarat Secondary & Higher Secondary Education Board, Gandhinagar or Other Boards.
 - t) **'National Higher Education Qualifications Framework (NHEQF)'** It is a framework that standardizes higher education qualifications and learning outcomes in India
 - u) **'ICAR'** means Indian Council of Agricultural Research, New Delhi.
- 4. ADMISSIONS:**
- 4.1 Admission to first year of B.Sc (Hons.) Agriculture Programme of study in Faculty of Agriculture:**
- 4.1.1 Candidate who have passed 10 + 2 examination from a recognized State Boards with Physics, Chemistry, Biology/ Agriculture and its allied and English subjects ('AB Group' & 'B Group') and with a minimum of 40% marks in aggregate for general category and 35% marks for SC/ST/OBC/SEBC category (are of major three subjects) are eligible for admission to B.Sc (Hons.) Agriculture Degree Programme and guidelines of Government of Gujarat from time to time will also be followed.
 - 4.1.2 Students of Higher Secondary Vocational Stream in Agriculture as well as to the

students of Higher Secondary Post basic Stream, who have passed Higher Secondary School Certificate Examination with Agricultural subjects as well as Farmer's Sons/ Daughters / Brothers / Sisters / Grandsons / Grand Daughters, subject to production of Certificate of 7-12 and 8-A, record of current year from competent authority for having/held land in Gujarat under cultivation by himself/herself / his/her Father/ his/her Mother/ his/her Grand Father (Paternal)/ his/her Grand Mother (Paternal)/ or his/her Brother/Sister, are eligible to secure admission to B.Sc (Hons.) Agriculture subject to the fulfillment of minimum qualifications required for admission in B.Sc. (Hons.) Agriculture

4.2 Admission to first year of B. Tech (Agricultural Engineering) :

- 4.2.1 For admission to degree in B.Tech. (Agricultural Engineering) the candidate shall have passed HSCE (Std. XII, 10 + 2 pattern) in Science Stream with 45% marks for Open category and 40% for Reserved Categories (SC/ST/OBC/SEBC) in theory only or (theory and practical combined) marks with Physics and Chemistry as a compulsory subjects along with Mathematics/ Biology/ Bio-Technology, Agriculture, Agriculture streams or Technical Vocation as one of the subject in qualifying examination ('A Group', 'AB Group' & 'B Group'). The admission process will follow the criteria set by the Admission Committee for Professional Courses (ACPC) and guidelines of Government of Gujarat from time to time will also be followed.

4.3 Admission to first year of B. Tech. (Dairy Technology)

- 4.3.1 For admission to degree in B. Tech. (Dairy Technology) the candidate shall have passed HSCE (std. XII, 10 + 2 pattern) in Science Stream with 45% marks for Open category and 40% for Reserved Categories (SC/ST/OBC/SEBC) in theory only or (theory and practical combined) marks with Physics, Chemistry and Mathematics as a compulsory subjects ('A Group', 'AB Group'). The admission process will follow the criteria set by the Admission Committee for Professional Courses (ACPC) and guidelines of Government of Gujarat from time to time will also be followed.

4.4 Admission to first year of B. Tech. (Food Technology)

- 4.4.1 For admission to degree in B. Tech. (Food Technology) the candidate shall have passed HSCE (std. XII, 10 + 2 pattern) in Science Stream with 45% marks for Open category and 40% for Reserved Categories (SC/ST/OBC/SEBC) in theory only or (theory and practical combined) marks with Chemistry as a compulsory subjects along with Physics/Mathematics/ Biology/ Bio-Technology, Agriculture, Agriculture streams, etc. as one of the subject in qualifying examination ('A Group', 'AB Group' & 'B Group'). The admission process will follow the criteria set by the Admission Committee for Professional Courses (ACPC) and guidelines of Government of Gujarat from time to time will also be followed.
- 4.5 Candidates who have successfully completed a three-year Diploma Programme in Agriculture or its allied fields and wish to pursue a degree programme in a discipline different from the one in which they completed their diploma will be allowed to join the 1st semester of the concerned degree programme (in Agriculture or its allied fields), subject to the following conditions:

1. They must provide an equivalence certificate issued by the respective Board or Education Department of the Government of Gujarat, verifying that their qualification is equivalent to 12th standard.

2. They must meet the eligibility criteria prescribed by the statutory authority for admission to the concerned degree programme.
- 4.6 A candidate who has completed a part of B.Sc (Hons.) Agriculture/ B. Tech (Agricultural Engineering/ B. Tech (Dairy Technology)/ B.Tech (Food Technology) Degree Programme in another university and seeks to continue the respective Programme in Parul University shall be permitted to do so provided
 - a) The candidate shall complete at least 50% of the prescribed coursework in Parul University.
 - b) The courses which are successfully completed by the candidate in the earlier university, which are considered as equivalent to the courses in Parul University as recommended by an Equivalence Committee nominated by the Provost, are transferred to the candidate's credit.
 - c) Such courses as mentioned in (2) above shall be treated as exempted for the transferred candidate.
 - d) The final CGPA of the transferred candidate shall be calculated based on the number of credits the candidate successfully completes in Parul University.
5. **NUMBER OF STUDENTS TO BE ADMITTED:**
 - 5.1 The maximum number of candidates to be admitted in first semester of the Degree course will be in accordance to the intake capacity decided by the University from time to time.
6. **DURATION OF THE ACADEMIC PROGRAMMES**
 - 6.1 The minimum period required to complete the Programme is 4 years (8 semesters).
 - 6.2 The maximum period required to complete the Programme is 7 years (14 semesters).
 - 6.3 After completion of Maximum Duration, NO EXTENSION will be granted.
7. **CLASSIFICATION OF LEVEL OF COURSES WITH TARGETED OUTCOMES:**

The courses have been classified as per the level of teaching and also based on targeted outcome.

 - 7.1 The 1st year of the UG programme (NHEQF Level 4. 5) includes the Foundation courses, introductory courses and skills enhancement courses/training in the chosen area, ability enhancement courses. It is aimed that student/s will acquire the basic knowledge in respective disciplines and adequate skill in some selected areas, to enable them for employment/ entrepreneurship.
 - 7.2 The 2nd year (NHEQF Level 5) includes the basic core courses and additional skill enhancement in chosen areas/ courses. It is aimed that the student/s will acquire the higher level knowledge in respective disciplines and adequate skills in some selected areas, to enable them employment at middle level/ supervisory level or for entrepreneurship.
 - 7.3 The 3rd year includes the advanced core subjects and their practical applications with an objective that the student will have deeper understanding of the subjects and their major application areas.
 - 7.4 The 4th year (NHEQF Level 6) will have the specialization/ elective courses and advanced skill enhancement through project and internship. The student will acquire advanced knowledge and skill in different areas so as to meet the higher order requirements of the society and industry as well as other prospective employers. It will also enable the graduates to become a job provider rather than a job seeker through establishment of enterprises in concerned fields.

8. MULTIPLE ENTRY AND EXIT:

- 8.1 There is provision of multiple entry and exit at different levels. The student/s will have the option to exit after the 1st year. He/ she/ has to complete 10 weeks of internship (10 credits) after 1st year (2 semesters) to be eligible for award of UG-Certificate. The student has another option to exit after the 2nd year. The student has to complete another 10 weeks of internship (10 credits) after 2nd year (4 semesters) to be eligible for award of UG-Diploma.
- 8.2 After four years of study, the student will be awarded UG degree in concerned discipline. No exit after 3 years (6 semesters) is recommended considering the professional nature of the courses.
- 8.3 Students who exit with a UG- Certificate or UG- Diploma are permitted to re-enter within three academic years and complete the degree programme.
- 8.4 **Re-entry:** If a student exit after first year with UG- Certificate and exit after second year with UG-Diploma Certificate are eligible for re-entry in third semester and fifth semester respectively.
- 8.5 **Lateral entry:** If a student having diploma/ polytechnic (3 years course after 10th) in recognized HAEIs in Agriculture, Agricultural Engineering, Dairy technology and Food Technology such students are eligible to get admission in third semester degree course as B.Sc. (Hons.) Agri., B.Tech. (Agril. Engg.), B.Tech. (Dairy Technology) and B.Tech. (Food Technology) respectively.
- 8.6 **Transfer:** Transferees from other University/ Institute are eligible to get the admission upto fifth semester in relevant programme under the faculty of Agriculture Parul University and should be treated as migratory student.

9. NEW COURSES FOR ACQUIRING ADVANCED KNOWLEDGE AND SKILL AND FOR STRENGTHENING THEIR CULTURAL AND ETHICAL VALUES AND THROUGH CHOICE BASED PROGRAMS:

- 9.1 **Deeksharambh (Induction—cum-foundation course):** A course entitled “Deeksharambh” (0+2) (Non-gradual) will be offered at the start of first semester for a duration of two weeks. There will be sessions by alumni, business leaders, outstanding achievers in related fields, people with inspiring life experiences as well as the University academic and research managers.
- 9.2 **Common courses:** The following common courses will be offered across the disciplines. This will enable the student for better communication skills and personality development as well as to have a broader view of agriculture and allied sectors, which will allow them for future collaboration with other sectors to face the next generation challenges from a holistic point of view.
 - Farming based livelihood systems
 - Entrepreneurship Development and Business Management
 - Agriculture Marketing and Trade
 - Communication Skills
 - Personality Development
 - Environmental Studies and Disaster Management
 - Agricultural Informatics and Artificial Intelligence

In addition to these common courses and Deeksharambh, the courses such as Physical Education, First Aid, Yoga Practices, Meditation, NCC and NSS have also been made compulsory for students for better social awareness and health of the

future generation.

10. ONLINE COURSES:

- 10.1 As per UGC guideline, a 1 to 3 credit SWAYAM course is expected to be covered in 4 to 12 weeks' duration including the assessment component, in which it should be 40 hours for 3 credit courses to 80 hours for a 6 credit course for the learning from e-content, reading references material, discussion forum posting and assignment.
- 10.2 The online courses can be from any field such as Basic Sciences, Humanities, Psychology, Anthropology, Economics, Engineering, Business Management, Languages including foreign language, Communication skills/ Music, etc., and can be taken from NPTEL, mooKIT, edX, Coursera, SWAYAM or any other portal.
- 10.3 The objective is to allow the students to groom their passion or strengthen their knowledge and competency in any field beyond prescribed courses.
- 10.4 The courses will be non-gradual as separate certificates will be issued by institutes offering the courses. These can be taken any time during the duration of UG program, but preferably during the 3rd and 4th years.
- 10.5 The institute will keep a record of such courses registered and completed by each student and will indicate the title of the (successfully completed) courses in final transcript issued to the student.
- 10.6 The requirement of credits for online courses is different due to the specific need of the disciplines.

11. ELECTIVE COURSES:

- 11.1 The institute will offer a bouquet of Elective courses to be offered to the students. The students will have the freedom to choose a subject among these courses. The institute also have the liberty to develop new Elective courses as per local needs and available expertise.

12. ENTREPRENEURSHIP DEVELOPMENT AS A CAREER PATH:

- 12.1 The restructured undergraduate curricula are designed to enable the students to take up entrepreneurship as a career path. As per NEP-2020, the curricula in all the disciplines of Agricultural education have been refined and fine-tuned with intensive focus on choice-based skill enhancement programs.

Skill enhancement courses are included in different modes as follows:

- Skill enhancement courses in the 1st year and 2nd year as part of the course programs;
- Internship for exit programs after 1st year/ 2nd year; and
- Advanced skill enhancement through Student READY programs such as in-plant training/ internship/ projects in 4th year.

The skills acquired must make the students proactive, pioneering, prospect oriented during their internship or industrial attachment to serve as apprentices in the relevant field. It will empower them to grasp viable avenues of self-employment and entrepreneurship along with diversified career options in different facets of related domains.

13. SKILL ENHANCEMENT COURSES:

- 13.1 Skill enhancement courses are essential requirements for any programme (UG-Certificate/ UG- Diploma or Degree). These will be choice based; student can choose the areas of skill enhancement from a bouquet of skill enhancement modules offered by the parent institute. The institute will develop capabilities for offering such courses
- 13.2 An institute is at liberty to (and in fact, it should) work in partnership with capable organizations/ companies/ NGOs/ progressive entrepreneurs/ farmers for running various skill enhancement programs.

- 13.3 The institute may also formulate and offer courses in any other areas as identified by it, based on institutional expertise/ capabilities/ resources. In addition, the skill enhancement courses suggested by the UGC, may also be offered.

14. INTERNSHIP:

- 14.1 Those students who wish to exit with UG-certificate after one year, has to undergo 10 weeks of internship programme (10 credits) after 1st Year. Similarly, the students who wish to exit with UG- Diploma after 2nd year, has to undergo 10 weeks of internship programme (10 credits) after 2nd Year.
- 14.2 Internship should be preferably arranged outside of the parent institution at any assigned organization/ industry/ research institution/ project or with a progressive farmer/ agri enterprise, etc.

15. ACADEMIC BANK OF CREDIT:

The institute will create an Academic Bank of Credits (ABC) of each student and recognize the ABC of a student as per the norms of the HAEI/ NEP-2020 recommendations.

16. CURRICULUM AND COURSES:

- 16.1 The details of the courses, credits and curriculum of the course shall be such as may be determined by the Academic Council in consultation with the respective faculty and the Boards of Studies in that Faculty from time to time. The distribution of courses for each semester shall be such, as maybe decided by the University from time to time.
- 16.2 A student enrolled in the University for undergraduate degree programme shall be required to pursue the prescribed curriculum and courses.
- 16.3 The curriculum consists of a series of courses designed to provide training to meet the requirements for the award of undergraduate degree.
- 16.4 A course includes lecture and / or practical classes and Student READY Programme in a particular subject covered in a semester.
- 16.5 A student shall be required to earn credits specified for the degree programme inclusive of those for Physical Education/NCC/NSS, Exposure Tour / Educational Tour / Industrial Tour, Projects, In-plant Training, Skill enhancement courses, Seminar and Student READY Programme etc.

17.	COURSE STRUCTURE FOR THE DEGREE PROGRAMMES:	
17.1 Annexure-A		
Course Structure of B.Sc. (Hons.) Agriculture as per sixth Dean Committee Report		
Sr. No.	Course Title	Credit Hours
First year		
I Semester		
1	Deeksharambh (Induction cum Foundation course) Non-gradial	2 week
2	Skill Enhancement Course -I*	2(0+2)
3	Skill Enhancement Course -II*	2(0+2)
4	Communication Skills	2(1+1)
5	Farming based livelihood systems	3(2+1)
6	Rural Sociology and Educational Psychology	2 (2+0)
7	Fundamentals of Agronomy	3(2+1)
8	Fundamentals of Soil Science	3(2+1)
9	Fundamentals of Horticulture	3(2+1)
10	National Service Scheme (NSS-I)/ National Cadet Corps (NCC-I)	1(0+1)
11	Introductory mathematics (need based) Non-gradial	1(1+0)
	Total	21(11+10)
II Semester		
1	Skill Enhancement Course -III*	2(0+2)
2	Skill Enhancement Course -IV*	2(0+2)
3	Personality Development	2(1+1)
4	Environmental Studies and Disaster Management	3(2+1)
5	Soil Fertility Management	3(2+1)
6	Fundamentals of Entomology	3(2+1)
7	Livestock and Poultry Management	2(1+1)
8	Fundamentals of Plant Pathology	3(2+1)
9	NCC-II/NSS-II	1(0+1)
	Total	21(10+11)
	Internship (for 10 weeks only for exit option for award of UG certificate)	10 (0+10)
III Semester		
1	Skill Enhancement Course -V*	2(0+2)
2	Entrepreneurship Development and Business Communication	3 (2+1)
3	Physical Education, First Aid, Yoga Practices and Meditation	2(0+2)
4	Principles of Genetics	3(2+1)
5	Crop Production Technology-I (<i>Kharif</i> crops)	3(1+2)
6	Production Technology of Fruit and Plantation Crops	2 (1+1)
7	Fundamentals of Extension Education	2(1+1)
8	Fundamentals of Nematology	2(1+1)
9	Principles and Practices of Natural Farming	2(1+1)
	Total	21(9+12)
IV Semester		

1	Skill Enhancement Course -VI*	2(0+2)
2	Agricultural Informatics and Artificial Intelligence	3(2+1)
3	Production Technology of Vegetables and Spices	2(1+1)
4	Principles of Agricultural Economics and Farm Management	2(2+0)
5	Crop Production Technology-II (<i>Rabi</i> Crops)	3(1+2)
6	Farm Machinery and Power	2 (1+1)
7	Water Management	2 (1+1)
8	Problematic Soils and their management	2(1+1)
9	Basics of Plant Breeding	3(2+1)
10	Insect Ecology and Integrated Pest Management	2(1+1)
	Total	23(12+11)
	Internship (for 10 weeks only for exit option for award of UG- Diploma)	10 (0+10)
V Semester		
1	Agricultural Marketing and Trade	3 (2+1)
2	Introduction to Agro-meteorology	2(1+1)
3	Fundamentals of Crop Physiology	3(2+1)
4	Pest management in Crops and Stored Grains	3 (2+1)
5	Diseases of Field & Horticultural Crops & their Management	3(2+1)
6	Crop Improvement (<i>kharif</i> crops) - I	2 (1+1)
7	Weed Management	2(1+1)
8	Ornamental Crops, MAPs and Landscaping	2 (1+1)
9	Introductory Agro forestry	2 (1+1)
10	Study Tour (Non-gradual)	2 (0+2)
	Total	22(13+9)
VI Semester		
1	Fundamentals of Agri Biotechnology	3(2+1)
2	Basic and Applied Agril Statistics	3(2+1)
3	Crop Improvement (<i>Rabi</i> crops) - II	2(1+1)
4	Renewable energy in Agriculture and Allied Sector	2(1+1)
5	Dryland agriculture/ Rainfed agriculture and watershed management	2(1+1)
6	Agricultural Microbiology and Phyto -remediation	2(1+1)
7	Agricultural Finance & Cooperation	2(1+1)
8	Essentials of Plant Biochemistry	3 (2+1)
9	Fundamentals of Seed Science & Technology	2(1+1)
	Total	21(12+9)
VII Semester		
1	5 **Elective Courses (major or minor) each of 4 (3+1) credits for B.Sc. (Hons) Agriculture degree	20(15+5)
	Total	20(15+5)
VIII Semester		
1	For B.Sc. (Hons)Agriculture Degree Student READY :RAWE/ Industrial Attachment /Experiential Learning / Hands-on Training/ Project Work / Internship	20
	Total	20
	Online Courses (Preferably during 3rd and 4th Year)	10
* Skill Enhancement Courses		
Sr. No.	Course title	Credit

1	Horticulture Nursery Management	2(0+2)
2	Soil, Plant and Water Testing	2(0+2)
3	Commercial Horticulture	2(0+2)
4	Agriculture Waste Management	2(0+2)
5	Beneficial insect farming	2(0+2)
6	Food Processing	2(0+2)
7	Floriculture and Landscaping	2(0+2)
8	Piggery Production Technology	2(0+2)
9	Video Production	2(0+2)
10	Seed Production Technology	2(0+2)
11	Post harvest processing technology	2(0+2)
12	Plantation Crop Production and Processing	2(0+2)
13	Organic Production Technology	2(0+2)
14	Poultry Production Technology	2(0+2)
15	Production Technology of Bioagents	2(0+2)
16	Mushroom Production Technology	2(0+2)
17	Biofertilizer and biopesticide production	2(0+2)
18	Plantation crops production and management	2(0+2)
19	Commercial Sericulture	2(0+2)
20	Seed Production and Testing Technology	2(0+2)
**Elective Courses (Indicative)		Credits
1	Agri-Business Management	4 (3+1)
2	Management of natural resources	4 (3+1)
3	Agrochemicals	4 (3+1)
4	Agricultural Journalism	4 (3+1)
5	Landscaping	4 (3+1)
6	Commercial Plant breeding	4 (3+1)
7	Food safety and standards	4 (3+1)
8	Bioformulation and Nano formulation	4 (3+1)
9	Biopesticides and Biofertilizers	4 (3+1)
10	System Simulation and Agro advisory	4 (3+1)
11	Hi-tech Horticulture	4 (3+1)
12	Protected cultivation	4 (3+1)
13	Climate Resilient Agriculture	4 (3+1)
14	Biotechnology of Crop Improvement	4 (3+1)
15	Geoinformatics and Remote Sensing, precision farming	4 (3+1)
16	Micro-propagation Technologies	4 (3+1)
17	Commercial Seed Production	4 (3+1)
18	Principles and Practices of Organic Farming/ Conservation Agriculture	4 (3+1)
19	Food Science and Nutrition	4 (3+1)
20	Post-Harvest Technology and Value Addition	4 (3+1)
Note: Any 5 Elective Courses will be selected by students during 7 th Semester from above listed courses (20(15+5))		
17.2 Annexure-B		
Course Structure of B. Tech. (Agricultural Engineering) as per sixth Dean Committee Report		
I Semester		

Sr. No.	Course Title	Credit Hours
1	Deeksharambh (Induction cum Foundation course) Non-gradual	2 week
2	Crop Production and Protection Technologies	4 (3+1)
3	Introduction to Agricultural Engineering	4 (3+1)
4	Surveying and Levelling	3 (1+2)
5	Workshop Technology and Practice	2 (0+2)
6	Basic Electrical Gadgets and Instruments	3 (2+1)
7	Agricultural Informatics and Artificial Intelligence	3 (2+1)
8	NSS- I/ NCC- I	1 (0+1)
	Total	20 (11+9)
II Semester		
1	Skill Enhancement	8 (0+8)
2	Engineering Drawing	2 (0+2)
3	Computer Programing and Data Structures	2 (0+2)
4	Farming Based Livelihood Systems	3 (2+1)
5	Environmental Studies and Disaster Management	3 (2+1)
6	Communication Skills	2 (1+1)
7	NSS-II/ NCC- II	1 (0+1)
	Total	21 (5+16)
	Internship (for 10 weeks only for exit option for award of UG certificate)	10 (0+10)
III Semester		
1	Engineering Mathematics- I	3 (3+0)
2	Engineering Physics	3 (2+1)
3	Engineering Chemistry	3 (2+1)
4	Engineering Mechanics	3 (2+1)
5	Soil Mechanics	2 (1+1)
6	Fluid Mechanics and Open Channel Hydraulics	3 (2+1)
7	Engineering Properties of Agricultural Produce and Food Science	3 (2+1)
8	Farm Machinery & Equipment- I	3 (2+1)
9	Physical Education, First Aid, Yoga Practice and meditation	2 (0+2)
	Total	25 (16+9)
IV Semester		
1	Engineering Mathematics-II	3 (3+0)
2	Theory of Structures	2 (1+1)
3	Building Construction & Cost Estimation	2 (2+0)
4	Watershed Hydrology	3 (2+1)
5	Soil and Water Conservation Engineering	3 (2+1)
6	Farm Machinery & Equipment II	3 (2+1)
7	Renewable Energy Sources	3 (2+1)
8	Post-harvest Engineering of Cereals, Pulses and Oilseeds	3 (2+1)
9	Entrepreneurship Development and Business Management	3 (2+1)
	Total	25 (18+7)
	Internship (for 10 weeks only for exit option for award	10 (0+10)

of UG- Diploma)		
V Semester		
1	Strength of Materials	2 (1+1)
2	Theory of Machines	2 (2+0)
3	Thermodynamics and Heat Transfer	3 (3+0)
4	Tractor & Automotive Engines	3 (2+1)
5	Irrigation and Drainage Engineering	4 (3+1)
6	Food and Dairy Engineering	4 (3+1)
7	Personality Development	2 (1+1)
8	Seminar	1 (0+1)
9	Study Tour (Non-gradual)	2 (0+2)
Total		21 (15+6)
VI Semester		
1	Tractor Systems & Controls	3 (2+1)
2	Groundwater, Wells and Pumps	3 (2+1)
3	Sensors, AI and Robotics in Agriculture	3 (2+1)
4	Agricultural Structures & Environment Control	3 (2+1)
5	Bioenergy Systems: Design and Applications	3 (2+1)
6	Refrigeration and Air-conditioning	3 (2+1)
7	Post-harvest Engineering of Horticultural Crops	2 (1+1)
8	Case Study	1 (0+1)
Total		21 (13+8)
VII Semester		
1	Project- I	3 (3+0)
2	Engineering Graphics and Design	2 (0+2)
3	Food Quality and Safety	3 (2+1)
4	Watershed Planning and Management	3 (2+1)
5	Sprinkler & Micro Irrigation Systems	2 (1+1)
6	Machine Design	2 (2+0)
7	Electrical Machines	3 (2+1)
8	Agricultural Statistics and Data Analysis	2 (1+1)
Total		20 (10+10)
VIII Semester		
1	Project -II	4 (0+4)
2	In-plant Training/ Research Internship	8 (0+8)
3	*Elective- I	3 (2+1)
4	*Elective- II	3 (2+1)
5	*Elective- III	3 (2+1)
Total		21 (6+15)
Online Courses (Preferably during 3 rd and 4 th Year)		06
*ELECTIVES (SEMESTER 8)		
1	Mechanics of Tillage and Traction	3 (2+1)
2	Farm Machinery Design and Production	3 (2+1)
3	Tractor Design and Testing	3 (2+1)
4	Hydraulic Drives and Controls	3 (2+1)
5	Human Engineering and Safety	3 (2+1)
6	Precision Agriculture and System Management	3 (2+1)
7	Photovoltaic Technology and Systems	3 (2+1)

8	Wind Power Technology and Systems	3 (2+1)
9	Waste and By-products Utilization	3 (2+1)
10	Floods and Control Measures	3 (2+1)
11	Remote Sensing and GIS Applications	3 (2+1)
12	Information Technology for Land and Water Management	3 (2+1)
13	Wasteland Development	3 (2+1)
14	Minor Irrigation and Command Area Development	3 (2+1)
15	Management of Canal Irrigation System	3 (2+1)
16	Water Quality and Management Measures	3 (2+1)
17	Landscape Irrigation Design and Management	3 (2+1)
18	Application of Plastics in Agriculture	3 (2+1)
19	Precision Farming Techniques for Protected Cultivation	3 (2+1)
20	Environmental Engineering	3 (2+1)
21	Development of Processed Food Products	3 (2+1)
22	Food Packaging Technology	3 (2+1)
23	Food Plant and Equipment Design	3 (2+1)
24	Emerging Technologies in Food Processing	3 (3+0)
25	Processing of Livestock, Fish and Marine Products	3 (2+1)
26	Food Business Management and Entrepreneurship Development	3 (3+0)
27	MATLAB Programming	3 (1+2)
28	Python Programming	3 (1+2)
29	Artificial Intelligence	3 (2+1)
30	Advances in Automation and Robotics in Agriculture	3 (2+1)
31	Machine Learning	3 (2+1)
32	Operations Research	3 (3+0)
33	Mechatronics	3 (2+1)
34	Natural Fibres: Extraction & Properties	3 (2+1)
35	Natural Fibre Applications in Agriculture	3 (2+1)
36	Processing of Natural Fibres	3 (2+1)
37	Agricultural Marketing and Trade	3 (2+1)

17.3 Annexure-C

Course Structure of B. Tech. (Dairy Technology) as per sixth Dean Committee Report

I Semester

Sr. No.	Course Title	Credit Hours
1	Deeksharambh (Induction cum Foundation course) Non-gradual	2 week
2	Workshop Practice	2 (1+1)
3	Fluid Mechanics	2 (1+1)
4	Engineering Drawing	1 (0+1)
5	Fundamentals of Microbiology	2 (1+1)
6	Physical Chemistry of Milk	2 (1+1)
7	Agricultural Informatics and Artificial Intelligence	3 (2+1)
8	Communication Skills	2 (1+1)
9	Farming Based Livelihood System	3 (2+1)
10	NCC-I / NSS-I	1 (0+1)
11	Skill Enhancement Course - I*	2 (0+2)

12	Skill Enhancement Course - II*	2 (0+2)
	Total	22 (9+13)
II Semester		
1	Market Milk	4 (3+1)
2	Heat & Mass Transfer	3 (2+1)
3	Basic Electrical Engineering	3 (2+1)
4	Microbiology of Fluid Milk	2 (1+1)
5	Chemistry of Milk	3 (2+1)
6	Environmental Studies and Disaster Management	3 (2+1)
7	Personality Development	2 (1+1)
8	NCC-II / NSS-II	1 (0+1)
9	Skill Enhancement Course - III*	2 (0+2)
10	Skill Enhancement Course - IV*	2 (0+2)
	Total	25 (13+12)
	Internship (for 10 weeks only for exit option for award of UG certificate)	10 (0+10)
III Semester		
1	Thermodynamics	3 (2+1)
2	Traditional Indian Dairy Products	3 (2+1)
3	Dairy Engineering	3 (2+1)
4	Refrigeration & Air Conditioning	3 (2+1)
5	Starter Culture and Fermented Dairy Products	2 (1+1)
6	Physical Education, First Aid, Yoga Practices, and Meditation	2 (0+2)
7	Agriculture Marketing & Trade	3 (2+1)
8	Skill Enhancement Course - V*	2 (0+2)
	Total	21 (11+10)
IV Semester		
1	Cheese Technology	5 (3+2)
2	Fat Rich Dairy Products	3 (2+1)
3	Ice-cream & Frozen Deserts	3 (2+1)
4	Chemistry of Dairy Products	2 (1+1)
5	Microbiology of Dairy Products	2 (1+1)
6	ICT in Dairy Industry	2 (1+1)
7	Entrepreneurship Development and Business Management	3 (2+1)
8	Skill Enhancement Course - VI*	2 (0+2)
	Total	22 (12+10)
	Internship (for 10 weeks only for exit option for award of UG- Diploma)	10 (0+10)
V Semester		
1	Condensed & Dried Milks	4 (3+1)
2	Dairy By-products Technology	3 (2+1)
3	Quality and Safety Monitoring in Dairy Industry	3 (2+1)
4	Chemical Quality Assurance	2 (1+1)
5	Instrumentation and Process Control	3 (2+1)
6	Dairy Process Engineering	3 (2+1)
7	Operations Research	2 (1+1)
8	Economic Analysis	2 (2+0)

9	Study Tour (Non Gradiat)	2 (0+2)
	Total	22 (15+7)
VI Semester		
1	Dairy Plant Management and Pollution Control	2 (1+1)
2	Strength of Materials & Dairy Machine Design	3 (2+1)
3	Financial Management & Cost Accounting	3 (2+1)
4	Food and Industrial Microbiology	2 (1+1)
5	Packaging of Dairy Products	2 (1+1)
6	Food Technology - I	3 (2+1)
7	Food Chemistry	3 (2+1)
8	Energy Conservation and Management	2 (1+1)
	Total	20 (12+8)
VII Semester		
1	Food Engineering	3 (2+1)
2	Dairy Plant Design and Layout	2 (1+1)
3	Food Technology-II	3 (2+1)
4	Sensory Evaluation of Dairy Products	2 (1+1)
5	Biochemistry and Human Nutrition	2 (1+1)
6	Elective-I**	2 (1+1)
7	Elective-II**	2 (1+1)
8	Elective-III**	2 (1+1)
9	Elective-IV**	2 (1+1)
	Total	20 (11+9)
VIII Semester		
1	In-Plant Training	20 (0+20)
	Total	20
	Online Courses (Preferably during 3rd and 4th Year)	08
*List of Skill Enhancement Courses (SEC)		
Sr. No.	Course Title	Credit Hours
1	Operation of Liquid Milk Processing System	2 (0+2)
2	Technology of Heat and Acid Coagulated Milk Products	2 (0+2)
3	Basic Aspects of Milk and Milk Products Testing	2 (0+2)
4	Basic Microbiological Tests for Quality of Milk and Milk Products	2 (0+2)
5	Operation of Ice cream Freezers, Ice Candy Making Unit and Their Packaging	2 (0+2)
6	Nutritional Evaluation of Milk and Milk Products	2 (0+2)
7	ISO 22000 : Food Safety Management System	2 (0+2)
8	Understanding Operations of a Sweet Shop	2 (0+2)
9	Malpractices in Dairy Industry: Detection & Control	2 (0+2)
10	Market Survey on Dairy and Related Aspects	2 (0+2)
11	Extrusion Processing in Dairy and Food Industry	2 (0+2)
12	NABL Accreditation of Laboratory	2 (0+2)
**List of Elective Courses		
Sr. No.	Course Title	Credit Hours
1	Industrial Statistics	2 (1+1)

2	Fundamentals of Dairy Extension	2 (1+1)
3	Dairy Biotechnology	2 (1+1)
4	Instrumental Technique in Food Analysis	2 (1+1)
5	Food Additives and Preservatives	2 (1+1)
6	Design and Formulation of Foods	3 (2+1)
** Elective Courses (minimum of 8 credit hours from the elective courses should be opted to complete total 20 credits)		
17.4 Annexure-D		
Course Structure of B. Tech. (Food Technology) as per sixth Dean Committee Report		
I Semester		
Sr. No.	Course Title	Credit Hours
1	Deeksharambh (Induction cum Foundation course) Non-gradual	2 week
2	Fundamentals of Food Processing	3 (2+1)
3	Workshop Technology	3 (1+2)
4	Basic Electrical Engineering	3 (2+1)
5	General Microbiology	3 (2+1)
6	Farming Based Livelihood System	3 (2+1)
7	Communication Skills	2 (1+1)
8	NCC-I/ NSS-I	1 (0+1)
9	Skill Enhancement Course-I*	2 (0+2)
10	Skill Enhancement Course-II*	2 (0+2)
Total		22 (10+12)
II Semester		
1	Post Harvest Engineering	3 (2+1)
2	Food Chemistry - I	3 (2+1)
3	Unit Operations in Food Processing	3 (2+1)
4	Food Thermodynamics	3 (2+1)
5	Engineering Drawing and Graphics	3(1+2)
6	Environmental Studies and Disaster Management	3 (2+1)
7	NCC - II/ NSS-II	1(0+1)
8	Skill Enhancement Course - III*	2 (0+2)
9	Skill Enhancement Course - IV*	2 (0+2)
Total		23 (11+12)
Internship (for 10 weeks only for exit option for award of UG certificate)		10 (0+10)
III Semester		
1	Food Chemistry II	3 (2+1)
2	Fluid Mechanics	3 (2+1)
3	Heat and Mass Transfer in Food Processing	3 (2+1)
4	Basic Electronic Engineering	2 (1+1)
5	Engineering Mathematics I	2 (2+0)
6	Agricultural Informatics and Artificial Intelligence	3 (2+1)
7	Physical Education, First Aid, Yoga Practices and Meditation	2 (0+2)
8	Skill Enhancement Course-V*	2 (0+2)
Total		23 (13+10)

IV Semester		
1	Fundamentals of Food Engineering	3 (2+1)
2	Food Plant Sanitation	3 (2+1)
3	Food Quality, Safety Standards and Certification	2 (2+0)
4	Engineering Mathematics II	2 (2+0)
5	Food Plant Utilities and Services	3 (2+1)
6	Entrepreneurship Development and Business Management	3 (2+1)
7	Personality Development	2 (1+2)
8	Skill Enhancement Course – VI*	2 (0+4)
Total		20 (13+7)
Internship (for 10 weeks only for exit option for award of UG-Diploma)		10 (0+10)
V Semester		
1	Food Biochemistry and Nutrition	3 (2+1)
2	Processing Technology of Cereals	3 (2+1)
3	Processing Technology of Fruits and Vegetables	3 (2+1)
4	Food Packaging Technology and Equipment	2 (1+1)
5	Processing of Spices and Plantation Crops	3 (2+1)
6	Food Storage Engineering	3 (2+1)
7	Project Preparation and Management	2 (1+1)
8	Agricultural Marketing and Trade	3 (2+1)
9	Study tour - Non Gradual	2 (0+2)
Total		22 (14+8)
VI Semester		
1	Food Additives and Preservatives	2 (1+1)
2	Sensory Evaluation of Food Products	2 (1+1)
3	Processing Technology of Legumes and Oilseed	3 (2+1)
4	Food Refrigeration and Cold Chain	3 (2+1)
5	Processing of Meat, Fish and Poultry Products	3 (2+1)
6	Processing Technology of Beverages	3 (2+1)
7	Bakery, Confectionary and Snack Products	3 (2+1)
8	Processing Technology of Liquid Milk	2 (1+1)
Total		21 (13+8)
VII Semester		
1	Food Process Equipment Design	3 (2+1)
2	Processing Technology of Dairy Products	3 (2+1)
3	ICT Applications in Food Industry	3 (1+2)
4	Seminar	1(0+1)
5	**Elective I	3 (2+1)
6	**Elective II	3 (2+1)
7	**Elective III	2 (1+1)
8	**Elective IV	2 (1+1)
Total		20 (11+9)
VIII Semester		
1	Students READY - Industrial Internship	20 (0+20)
Total		20 (0+20)

Online Courses (Preferably during 3rd and 4th Year)		06
* Skill Enhancement Courses		
Sr. No.	Course Title	Credit Hours
1	Maintenance of Food Processing Equipment	2 (0+2)
2	Introduction to Drying Technology and Dryers	2 (0+2)
3	Introduction to Good Laboratory Practices	2 (0+2)
4	Basic Food Analysis Laboratory Techniques	2 (0+2)
5	Introduction to Milling	2 (0+2)
6	Introduction to Manufacturing of Bakery Products	2 (0+2)
7	Introduction to Electrical and Control Systems in Food Industry	2 (0+2)
8	Introduction to Bottling and Canning Line	2 (0+2)
9	Introduction to Mechanical Systems in Food Industry	2 (0+2)
10	Introduction to Food Safety and sanitization	2 (0+2)
11	Introduction to Processing of Extruded Foods	2 (0+2)
12	Introduction to AutoCAD	2 (0+2)
**List of Elective Courses		
Sr. No.	Course Title	Credit Hours
1	Design and Formulation of Foods	3 (2+1)
2	Industrial Microbiology	3 (2+1)
3	Introduction to Food Biotechnology	3 (2+1)
4	Business Management and Economics	2 (2+0)
5	Statistical Methods and Numerical Analysis	2 (1+1)
6	Instrumentation and Process Control in Food Industry	3 (1+2)
7	Instrumental Techniques in Food Analysis	2 (1+1)
8	Traditional Indian Dairy Products	2 (1+1)
9	Ice-cream and Frozen Desserts	3 (2+1)
10	Energy Conservation and Management	2 (1+1)
11	Applications of Renewable Energy in Food Processing	2 (1+1)
12	Food Plant Design and Layout	3 (2+1)
13	Waste and By-Products Utilization	3 (2+1)

18. ACADEMIC REQUIREMENT:

18.1 In order to earn under graduates' degree of the University, an enrolled student shall have to complete satisfactorily the prescribed number of course credits including those acquired by the approved transfer, and shall have earned an cumulative grade point average (CGPA) / overall grade point average (OGPA) of **5.000** and above.

18.2 A course credit of each class will be of one hour of theory lecture or two hours of practical (Laboratory / field work / SEC) per week in each semester.

19. SYSTEM OF TEACHING:

19.1 There will be eight semesters during which the student shall complete the requirements of course credits under the semester system of teaching and continuous evaluation. The same shall run in four academic year duration, each academic year (July-June) being divided into two semesters each consisting of 110 working days including semester end examinations.

19.2 An academic year shall be divided into two semesters.

19.3 The semester will be announced in every academic calendar year by the Registrar

prepared by Deans of the respective faculties. Suitable adjustment in a semester will be made to accommodate Diwali vacation, summer vacation and other holidays as may be notified by the University.

19.4 The medium of instructions shall be English.

19.5 Each class (Contact hour) will be of 50 minute duration and one practical will be of two contact hours.

20. ATTENDANCE:

20.1 While pursuing degree programme, a student shall be required to attend lecture, classes and / or perform practical in laboratory / field work / in plant training, etc. Student shall also put required efforts in library work and shall submit the assignments, reports, etc. as per instructions from the course teachers.

20.2 Students must maintain a minimum of 75% attendance in a semester to be eligible to appear in the End Semester Examination. Non-compliance will require the student to repeat the semester the following year.

20.3 Attendance-based grading:

20.3.1 75-79% : 1 marks

80-84% : 2 marks

85-89% : 3 marks

90-94% : 4 marks

95% and above : 5 marks

20.4 The Vice Chancellor may condone up to 10% shortage of attendance for genuine reasons, based on the recommendation of the Dean.

20.5 A student admitted to Hospital on account of serious sickness / accident, shall be allowed the benefit of attendance and missing internal examination(s), if any for corresponding number of days depending upon the nature of illness by the concerned Dean/Principal of the College, after he/she produces a medical Certificate from the Medical Officer of the University or from a Medical Officer of any Government hospital as special case. However, in any circumstances including the benefits of Medical Certificate a student whose attendance in particular course is should not be less than fifty percent on an average of both theory and practical. The treatment as an outdoor patient will not be considered for granting the benefit of attendance. However, in exceptional circumstances the Dean/Principal of the college may grant the benefit of attendance on valid reason.

21. EXAMINATION AND EVALUATION SYSTEM:

21.1 The mode of evaluation through different types of examination and weightage for each course shall be as follows:

Evaluation and Grading System

- Uniform system using Grade Point Average (GPA).
- Evaluation on a 10-point scale:
- 10 points = 100 marks.

21.2 The mode of evaluation through the different types of examination and weightage for each course shall be as follows;

21.2.1 Nature of Evaluation

A. Courses with Theory and Practical		
Nature of Exam/ Categories of courses	Marks	Duration
Mid-term exam	20	One hour
Quiz/Assignment and Attendance	20	-
Final Practical (Internal)	20	-
End Semester Theory Exam	40	Two hour

Total		100	-
B.	Courses with only Theory		
Nature of Exam/ Categories of courses		Marks	Duration
Mid-term exam		30	One hour
Quiz/Assignment and Attendance		20	-
End Semester Theory Exam		50	Two hour
Total		100	-
C.	Courses with only Practical		
Nature of Exam/ Categories of courses		Marks	Duration
Mid-term exam (Practical)		30	-
Quiz/Assignment and Attendance		20	-
Final Practical (Internal)		50	-
Total		100	-

Note: The course teacher will carry out the internal evaluation through different examination of theory and practical for each course as the case may be.

21.3 **Evaluation Guidelines:**

External Theory Exams:

- Questions prepared by external experts.
- Evaluated by faculty other than the course instructor.
- Duration: for the semester end theory exam would be of 2 hours.

Mid-term Exam:

- Duration: for the mid-term exam will be of 1 hours.

Courses with only Practical:

Internal Practical Exams: Conducted by the course instructor and a nominated faculty by HoD/Dean.

Courses with Theory and Practical:

- Conducted by the course instructor and a nominated faculty by HoD/Dean.
- There would be 20 Marks of Final Internal Exam

21.4 **Quizzes and Progressive Assessments:**

- There will be two Quizzes within the semester one before Mid-Term Exam and one after. The student scoring lower than 50% marks in any one quiz can opt for appearing for the third Quiz to improve their grade.
- Assessment should focus on critical thinking and creativity. (Group Assignments)

21.5 **Skill Enhancement Courses:** Evaluated like practical-only courses.

21.6 **Online/MOOC Courses:** Marked as 'Satisfactory' in the transcript.

21.7 **Deficiency Courses:** Graded as 'Satisfactory' or 'Unsatisfactory', **without grade points.**

21.8 **Pattern of Question paper for ESE theory shall be as follows**

For the Subject with Theory and Practical		
Q.1	Do as directed	Marks
A.	State whether the given statement is true or false (Each of 0.5 mark)	05
B.	Multiple choice questions (Each of 0.5 marks)	05
Q.2	Do as directed	
A.	Define the following (Any five out of seven questions)	05
B.	Answer the following (Any five out of seven questions)	05
Q.3	Write short notes (Any four out of five questions)	08

Q.4	Long questions (Any three out of Four questions)	12
For the Subject with only Theory		
Q.1	Do as directed	Marks
A.	State whether the given statement is true or false (Each of 0.5 mark)	05
B.	Multiple choice questions (Each of 0.5 marks)	10
Q.2	Do as directed	
A.	Define the following (Any five out of seven questions)	05
B.	Answer the following (Any five out of seven questions)	05
Q.3	Write short notes (Any five out of six questions)	10
Q.4	Long questions (Any three out of Four questions)	15

21.9 Note:

- It is mandatory for the student to appear for mid-term/ internal practical examinations in a course failing which the student will not be permitted to appear for ESE Theory Examination for the concerned course.
- The question paper for the End Semester Theory Examination will be set by an External Member. The concerned HOD/ Convener shall ensure coverage of entire syllabus in the question paper. Moderation may be done wherever required.
- The answer papers will be evaluated by a teacher in the concerned subject (other than the course teacher if available in the concerned discipline of college/ institute) in the university.
- Practical Examination will be conducted by the Course Teacher with an additional teacher nominated by the concerned HOI/HOD.
- In case a student is aggrieved with the marks obtained in the subject in the End Semester Theory Examination, the student may apply for Rechecking/ Reassessment of Answer script by paying the prescribed fees.
- Arrangement shall be made by the Controller of Examinations for Rechecking/ Reassessment.
- If the difference in marks awarded between 1st and 2nd examiners is at least 10% of maximum marks, the paper is sent to a 3rd examiner. If the difference in marks awarded between the 1st and 3rd examiner is a minimum of 10% of the maximum marks, the average of the marks awarded by the 2nd and 3rd examiners shall be awarded to the student.
- The Controller of Examinations shall arrange for obtaining internal marks from the Course Teacher and totaling Internal and External Marks and announcing the result.
- The grades obtained by the students shall be finalized as follows: The total marks scored by a student out of 100 shall be divided by 10 and expressed up to two decimal places.
- A student who fails to pass a course due to insufficient marks in the examination shall be allowed to appear for supplementary examinations, including both the end-semester examination and the internal examination, to improve their overall performance in the subject in which they have been declared failed. For such students, as far as calculation of their score in internal examination is concerned, the highest score obtained in either the previous internal

examination or the remedial internal examination will be considered for their internal marks.

- k) A student should score a minimum grade point of 5.00/10.00 to pass in a course.
- l) A student will be promoted to higher semesters irrespective of the number of backlogs of the earlier semesters.

22. ACADEMIC CALENDER:

22.1 Academic calendar shall be prepared by the Dean Faculty of Agriculture and shall contain the following:

- a) Dates of commencement and closure of semesters
- b) Dates of internal and external examination
- c) Preparatory Leave

23. FACULTY ADVISOR:

23.1 To help the students in planning their courses of study and to render general advice regarding either the academic Programme or any other activity, the Dean of the Faculty of Agriculture, will assign every year, a certain number of students from the first semester to a faculty member who will be called Faculty Advisor. The set of students thus assigned will continue to be under the guidance of this Faculty Advisor till they complete the Programme.

24. COURSE EVALUTION BY STUDENTS:

24.1 Every course offered in a semester is evaluated on the basis of feedback received from the students who have studied that course during the last week of a semester. The feedback system shall be computerized and coordinated by the Dean. The compiled feedback reports system shall be forwarded to the concerned Principal/Head of Institution who will scrutinize the same and may take appropriate steps to enhance the quality of teaching of the courses.

25. CREDITS AND GRADE POINT:

25.1 Grading and evaluation will be in "Ten Point Grade System".

25.2 The student shall have to obtain at least 5.000 Grade Point (GP) or above in order to clear a course and Overall Grade Point Average (OGPA) of 5.000 to earn the degree.

25.3 Grade Point Calculations

25.3.1 SGPA Calculation (Semester Grade Point Average)

- **Formula:** $SGPA = \frac{\sum (\text{Grade Point} \times \text{Credit Hours})_{\text{in one Semester}}}{\text{Total Credit Hours in the semester}}$

SGPA represents the average grade point for a semester.

25.3.2 CGPA Calculation (Cumulative Grade Point Average)

- **Formula:** $CGPA = \frac{\sum (\text{Grade Point} \times \text{Credit Hours})_{\text{until last Semester}}}{\text{Total Credit Hours until the Last Semester}}$
- CGPA represents cumulative performance up to any stage of the course.
- Formula for CGPA to % Marks conversion
 $\% \text{ Marks} = CGPA \times 10$

25.3.3 OGPA Calculation (Overall Grade Point Average)

- If a subject is passed in the second attempt, the Grade Point from the second attempt is considered in CGPA.
- The **final CGPA** will be named **Overall Grade Point Average (OGPA)** and mentioned in the **final transcript**.
- Formula for OGPA to % Marks conversion
 $\% \text{ Marks} = OGPA \times 10$

26. ELIGIBILITY FOR THE AWARD OF DEGREE:

- 26.1 A student shall be eligible for award of the concerned degree if he/she fulfills all the following conditions;
- a) Registered and successfully completed all the components prescribed for the degree Programme.
 - b) Obtained CGPA greater than or equal to 5.0 (Minimum requirements for Pass).
 - c) Has no dues to the Institute, hostels, libraries, NCC/NSS etc., and
 - d) No disciplinary action is pending against him/her.
- 26.2 It will be obligatory for the students to earn "S" grade for all non-credit courses in order to be eligible for the award of the degree. If student earn "US" grade he shall have to repeat the course as and when offered.

27. AWARD OF DIVISIONS:

- 27.1 The award of classes will be based on the Cumulative Grade Point Average / Overall Grade Point Average obtained by the candidates and will be governed by the following criteria.

CGPA/OGPA	Division
5 to <6	Pass
6 to <7	Second Division
7 to <8	First Division
≥ 8	First Division with Distinction

Divisions are awarded based on the Cumulative Grade Point Average (CGPA) / Overall Grade Point Average (OGPA).

28. GRADE SHEET:

A grade sheet will be issued to each student indicating his performance in all courses taken in a particular semester and also indicating the Grades and SGPA.

29. TRANSCRIPTS:

- 29.1 After successful completion of the total Programme of study, a Transcript containing performance of all academic years will be issued as a final record. The Grade Sheet shall indicate full information on the grades obtained in all courses including those in first and subsequent attempts. Duplicate transcripts will also be issued if required after the payment of requisite fee. Partial transcript will also be issued up to any point of study to any student on request and by paying the stipulated fee in force.
- 29.2 Faculty of Agriculture shall approve and recommend to the Academic Council the list of candidates for the award of degree.

30. GOLD MEDALS AND AWARDS:

- 30.1 In order to be eligible for the award of medals/ prizes and ranks etc., the student should complete the course within the prescribed minimum duration. The students who have repeated any course shall not be eligible for the award.

31. AMENDMENTS TO REGULATIONS:

- 31.1 The Academic Council reserves the right to revise, amend or change the Regulations, Schemes of Examinations, and/or Syllabi or any other matter pertaining to the course as deemed fit from time to time.