

**DEPARTMENT OF AGRICULTURAL ENGINEERING****Action Taken Report on B. Tech Agricultural Engineering Program R 19 and R21 Feedback Implemented in R22 introduced in the AY 2022-23****Action taken based on the suggestions from Students:**

- Q1. Course Contents of Curriculum are in tune with the Program Outcomes.
- Q2. The Course Contents are designed to enable Problem Solving Skills.
- Q3. Courses offered in the curriculum serves the needs of both Agricultural Industries and IT sector.
- Q4. Contact Hour Distribution among the various Course Components (LTP) is Satisfiable.
- Q5. Electives have enabled the passion to learn new technologies in emerging areas of Agricultural Engineering.
- Q6. The Curriculum is providing opportunity towards Self learning to realize the expectations
- Q7. Composition of Basic Sciences, Engineering, Humanities and Management Courses is a right mix and satisfiable.
- Q8. No. of Laboratory Sessions Integrated with Theory Courses have been sufficient to improve the technical as well as practical skills in Agricultural Engineering.
- Q9. Inclusion of Minor Projects with Theory Courses have enhanced the technical competency and leadership skills.

**Analysis of Overall Feedback given by the Students on R 21**

	<b>Strongly Agree</b>	<b>Agree</b>	<b>Moderate</b>	<b>Disagree</b>	<b>Strongly Disagree</b>	<b>Avg. Rating</b>	<b>Grade</b>
<b>Q1</b>	55.6	27.2	8.2	6.2	0.8	4.246	<b>Excellent</b>
<b>Q2</b>	57.2	25.1	9.1	5.3	1.2	4.255	<b>Excellent</b>
<b>Q3</b>	53.1	27.2	12.3	4.1	1.2	4.206	<b>Excellent</b>
<b>Q4</b>	53.9	25.5	10.3	5.3	2.9	4.159	<b>Excellent</b>
<b>Q5</b>	53.5	28	10.3	5.8	0.4	4.224	<b>Excellent</b>
<b>Q6</b>	58.4	18.9	16	3.7	0.8	4.238	<b>Excellent</b>
<b>Q7</b>	57.2	24.3	9.5	4.9	2.1	4.236	<b>Excellent</b>
<b>Q8</b>	55.1	22.6	14.4	4.5	1.2	4.193	<b>Excellent</b>
<b>Q9</b>	57.6	23	8.6	7.4	1.2	4.218	<b>Excellent</b>

## Itemized responses given to the Suggestions of Students

**Suggestion:** Increase lab hours and more realistic practical theory should be implemented.

**Action Taken:** More emphasis is given on practical sections.

**Suggestion:** Require GATE, ICAR- JRF coaching for Higher Education

**Action Taken:** Syllabus is modified as per GATE Examination. Most of the topics covered in Classroom. Separate Training Programme is planned as CRT.

**Suggestion:** Reduce the external weightage.

**Action Taken:** Weightage for external is reduced from 50 to 50 marks.

### **Action taken based on the suggestions from Alumni:**

Q1.The Curriculum has paved a good foundation in understanding the basic Agricultural Engineering concepts.

Q2.Course Contents of Curriculum are in tune with the Program Outcomes.

Q3.Curriculum has imparted all the required Job Oriented Skills

Q4. Electives of Curriculum have served the technical advancements needed to serve the requirements of existing construction Industry Practices and Codal Provisions.

Q5.Tools and Technologies learnt during laboratory sessions has enriched the required practical knowledge to serve in industry as well as Farming committee.

Q6.Competing with your peers from other Institutions.

Q7.Current Curriculum meets the present industry as well as Farmer demands.

### **Analysis of Overall Feedback given by the Alumni on R 21**

	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
<b>Q1</b>	81	8.6	3.4	5.2	0	4.6	Excellent
<b>Q2</b>	81	10.3	3.4	3.4	0	4.632	Excellent
<b>Q3</b>	82.8	10.3	1.7	3.4	0	4.671	Excellent
<b>Q4</b>	82.8	12.1	1.7	1.7	0	4.709	Excellent
<b>Q5</b>	79.3	15.5	1.7	1.7	0	4.67	Excellent
<b>Q6</b>	82.8	12.1	3.4	0	0	4.726	Excellent
<b>Q7</b>	82.8	13.8	0	1.7	0	4.726	Excellent

**Itemized responses given to the suggestions of Alumni**

**Suggestion:** Visit to ICAR disciplines to be incorporated.

**Action Taken:** Educational Tour concept was introduced from which each Students will learn different sort of courses related to latest technologies in ICAR institutes.

**Suggestion:** Provide campus trainings in third year itself.

**Action Taken:** Planning to Introduce CRT and Programming Skills from third year itself

**Suggestion:** Weightage for internal marks can be increased.

**Action Taken:** Weightage for internal is given 50.

***Action taken based on the suggestions from Faculty:***

- Q1. The Course Contents of Curriculum are in tune with program Vision and Mission.
- Q2. Course Contents can enhance the Problem-Solving Skills and Core competencies and employability skills.
- Q3. Allocation of Credits to the Courses are Satisfiable.
- Q4. Contact Hour Distribution among the various Course Components (LTP) is Satisfiable.
- Q5. Electives enable the passion to learn new technologies in emerging areas of Agricultural Engineering.
- Q6. Curriculum is providing opportunity towards Self learning to realize the expectations.
- Q7. Composition of Basic Sciences, Engineering, Humanities and Management Courses are Satisfiable.
- Q8. Number of theoretical courses amalgamated with laboratory sessions are sufficient to improve the technical skills of students.
- Q9. Integration of Minor Project with Theory Courses improved the technical competency and leadership skills among the students.

### Analysis of Overall Feedback given by the Faculty on R 21

	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
<b>Q1</b>	64.3	19	11.9	2.4	2.4	4.404	<b>Excellent</b>
<b>Q2</b>	64.3	28.6	2.4	4.8	0	4.527	<b>Excellent</b>
<b>Q3</b>	66.7	31	2.4	0	0	4.647	<b>Excellent</b>
<b>Q4</b>	64.3	16.7	16.7	2.4	0	4.432	<b>Excellent</b>
<b>Q5</b>	71.4	28.6	0	0	0	4.714	<b>Excellent</b>
<b>Q6</b>	71.4	26.2	0	2.4	0	4.666	<b>Excellent</b>
<b>Q7</b>	71.4	26.2	2.4	0	0	4.69	<b>Excellent</b>
<b>Q8</b>	69	28.6	2.4	0	0	4.666	<b>Excellent</b>
<b>Q9</b>	59.5	38.1	2.4	0	0	4.571	<b>Excellent</b>

#### Itemized responses given to the suggestions of Faculty

**Suggestion:** Way of assessment need to be modified.

**Action Taken:** Assessment process is modified to Formative and Summative as per NEP2020.

**Suggestion:** Discussion sessions to be kept in the time table.

**Action Taken:** Discussion session in each course is given in time table where in students can clarify their doubts and can make discussion related to the courses which enables learning abilities.

**Suggestion:** Industry Institute courses need to be implemented.

**Action Taken:** Industry Institute courses is implemented and guest lectures from industry persons are introduced in every course on Saturday.

**Suggestion:** Suggested to Introduce Remote Sensing lab

**Action Taken:** RS and GIS subject has been introduced in the curriculum as Departmental elective and planned one modular course for hands on experience on GIS software

Analysis of Overall Feedback given by the Employers on R 21

	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	80	20	0	0	0	4.8	Excellent
Q2	80	20	0	0	0	4.8	Excellent
Q3	100	0	0	0	0	5	Excellent
Q4	80	20	0	0	0	4.8	Excellent
Q5	100	0	0	0	0	5	Excellent

Itemized responses given to the suggestions of Employers

**Suggestion:** Field activities can be improved.

**Action Taken:** Experiences learning courses are introduced in the curriculum enable the students to have more activities in the Field.

**Suggestion:** Required Practical orientation by conducting Field/KVK visits

**Action Taken:** Introduced visit of Field/KVK as a part of labs.

**Suggestion:** Train Students through long term Internships related to Agriculture

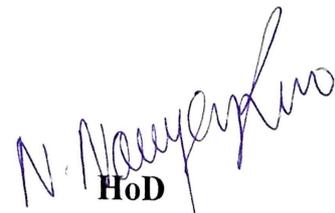
**Action Taken:** A semester long Internship is already there in the curriculum and implementing the same to make the students industry ready before getting placed.

**Suggestion:** Industry interaction with students can be arranged.

**Action Taken:** Guest lectures from industry persons and industry interaction courses are introduced in the curriculum.

**Suggestion:** Good knowledge in IoT application in Agriculture.

**Action Taken:** Courses to improve IoT knowledge are introduced.

  
HoD

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