DEPARTMENT OF APPLIED ENGINEERING

Action Taken Report on M.Tech Farm Machinery Program R22 Feedback

Implemented in R22 introduced in the AY 2023–24

Action taken based on the suggestions from Students:

Q1. Course Contents of Curriculum in tune with the Program Outcomes

Q2. Course Contents designed and value added courses offered enriches Core Competencies

Q3. Courses placed in the curriculum serves the needs of both Advanced and slow learners

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 Farm Machinery and Power Engineering

Q6. The Curriculum providing opportunity towards Self learning to realize the expectations of present trend in design and research needs

Q7. Inclusion of Employability Orientation Program and Research Methodology in the curriculum is useful in career enhancement

Q8. No. of Laboratory Sessions Integrated with Theory Courses have been sufficient to improve the technical as well as practical Farm Machinery and Power Engineering

Q9. Introducing Mini Projects and Socio-centric Projects along with Theory Courses improved the research competency and leadership skills among the students

Analysis of Overall Feedback given by the Students

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	75	25	0	0	0	4.75	**Excellent**
Q2	50	50	0	0	0	4.5	**Excellent**
Q3	50	50	0	0	0	4.5	**Excellent**
Q4	62.5	37.5	0	0	0	4.625	**Excellent**
Q5	62.5	37.5	0	0	0	4.625	**Excellent**
Q6	75	25	0	0	0	4.75	**Excellent**
Q7	50	50	0	0	0	4.5	**Excellent**
Q8	50	50	0	0	0	4.5	**Excellent**
Q9	87.5	12.5	0	0	0	4.875	**Excellent**

Itemized responses given to the Suggestions of Students

Suggestion: Courses on current trends are to be offered.

Action Taken: Advanced courses related to application of AI and ML are incorporated for Smart Agriculture are offered as electives.

Suggestion: In-house training to be provided for facing competitive exams.

Action Taken: Practices already started with R20 regulations and are continued in this regulation too.

Suggestion: The curriculum must improve the placements of the department

Action Taken: Add on Certification courses / NPTEL courses has been introduced to enhance self-learning capabilities and every student must undergo three certification courses.

Action taken based on the suggestions from Alumni:

Q1. Curriculum has paved a good foundation in understanding the basic Farm Machinery concepts

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

Q3. Curriculum imparted all the required Agriculture Job and research oriented skills

Q4. Professional and open Electives of Curriculum served the technical advancements needed to serve in the Farm machinery and Power Equipment

Q5. Agriculture equipment and technologies learnt during laboratory sessions has enriched the problem solving skills and research abilities

Q6. Compete with your peers from other Universities

Q7. Current curriculum is superior than your studied curriculum

Analysis of Overall Feedback given by the Alumni

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	75	25	0	0	0	4.75	Excellent
Q2	87.5	12.5	0	0	0	4.875	Excellent
Q3	62.5	37.5	0	0	0	4.625	Excellent
Q4	62.5	37.5	0	0	0	4.625	Excellent
Q5	62.5	37.5	0	0	0	4.625	Excellent
Q6	87.5	12.5	0	0	0	4.875	Excellent
Q7	87.5	12.5	0	0	0	4.875	Excellent

Itemized responses given to the suggestions of Alumni

Suggestion: Students need to be work on real time problems faced by current Agriculture industry and society.

Action Taken: Concept of Project based learning has been introduced in which projects related to interdisciplinary and societal and industry oriented are to be carry out by students in respective semesters.

Suggestion: Courses on current trends are to be offered.

Action Taken: Courses like Geo-informatics and Nano-Technology for Precision Farming and Machinery for Precision Agriculture are offered as electives.

Suggestion: Add employability courses in curriculum

Action Taken: Introduced employment orientation program and skill-based courses in every semester to make the student's industry ready.

Action taken based on the suggestions from Faculty:

Q1. Course contents of Curriculum designed is in tune with program outcomes

Q2. Course Contents of the curriculum enhances the problem solving skills and core competencies

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 Structural Engineering.

Q6. The Curriculum providing opportunity towards self-learning to realize the expectations of present trend in design and research needs.

Q7. The inclusion of Employability Orientation Program and Research methodology in the curriculum satisfiable

Q8. The Number of theoretical courses amalgamated with laboratory sessions sufficient to improve the technical skills of students

Q9. Introducing mini Projects and Socio-centric projects along with Theory courses improved the research competency and leadership skills among the students

Analysis of Overall Feedback given by the Faculty

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	80	20	0	0	0	4.8	Excellent
Q2	60	40	0	0	0	4.6	Excellent
Q3	80	20	0	0	0	4.8	Excellent
Q4	80	20	0	0	0	4.8	Excellent
Q5	60	40	0	0	0	4.6	Excellent
Q6	60	40	0	0	0	4.6	Excellent
Q7	40	60	0	0	0	4.4	Excellent
Q8	40	60	0	0	0	4.4	Excellent
Q9	60	40	0	0	0	4.6	Excellent

Itemized responses given to the suggestions of Faculty

Suggestion: Latest Remote Sensing and GIS Technology in agriculture to be included.

Action Taken: These topics are covered in mandatory courses and Elective courses.

Suggestion: Activities related to lifelong learning are to be imparted

Action Taken: To make students self-learned Swayam and NPTEL course have been introduced as mandate

Suggestion: Benefits of skill development need to be provided to all the students irrespective of discipline

Action Taken: Concepts of Machinery for horticulture ad protected Agriculture have been incorporated.

Suggestion: Knowledge about tractor vehicles is required

Action Taken: Courses like Machinery for Precision Agriculture are offered as electives.

Action taken based on the suggestions from Employers:

Q1. Course Contents of Curriculum is in tune with the Program Outcomes

Q2. The Course Contents in adapt with the Agricultural Industry Demands and research needs

Q3. Core Electives and open Elective are in-line with the technology advancements in Agriculture field.

Q4. Applicability of the device and Agricultural technologies described in the curriculum will be enough to practice in existing in Industries as well as farming community

Q5. Problem Solving and Soft Skills acquired by the students through the course contents will enable them to be place in public sector units, MNCs, Government sectors and research agencies.

Analysis of Overall Feedback given by the Employers

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

Itemized responses given to the suggestions of Employers

Suggestion: Awareness on testing of tractors should be given to the students.

Action Taken: A course on Testing and evaluation of Tractors and farm equipments has been incorporated in the curriculum.

Suggestion: Courses on current trends are to be offered.

Action Taken: Courses like Geo-informatics and Nano-Technology for Precision Farming, Machinery for Precision Agriculture are offered as electives.

Suggestion: In-house training to be provided for facing competitive exams.

Action Taken: Practices already started with R20 regulations and are continued in this regulation too.

Suggestion: Knowledge about tractor vehicles is required

Action Taken: Courses like Geo-informatics and Nano-Technology for Precision Farming, Machinery for Precision Agriculture are offered as electives.

HOD-AE

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