



DEPARTMENT OF APPLIED ENGINEERING

Action Taken Report on M.Tech Farm Machinery Program R17 Feedback

Implemented in R20 introduced in the AY 2019–20

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 offered in the curriculum serves the needs of both Farm Machinery 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 and Interdisciplinary Areas
- Q6.Curriculum providing enable towards self-learning
- Q7.Composition of Basic Sciences, Engineering, Humanities and Management Courses is a right mix and satisfiable
- Q8.Laboratory sessions are sufficient to improve the technical skills of students
- Q9.Suggest any other points to improve the quality of the curriculum

Analysis of Overall Feedback given by the Students on R17

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	75	25	0	0	0	4.75	Excellent
Q2	100	0	0	0	0	5	Excellent
Q3	87.5	12.5	0	0	0	4.875	Excellent
Q4	50	50	0	0	0	4.5	Excellent
Q5	87.5	12.5	0	0	0	4.875	Excellent
Q6	87.5	12.5	0	0	0	4.875	Excellent
Q7	75	25	0	0	0	4.75	Excellent
Q8	87.5	12.5	0	0	0	4.875	Excellent
Q9	87.5	12.5	0	0	0	4.875	Excellent



Itemized responses given to the Suggestions of Students

Suggestion: Burden on the students need to be decreased as per the new guidelines of AICTE

Action Taken: Credits have been reduced

Suggestion: Courses on current trends are to be offered.

Action Taken: courses like Electric and hybrid vehicles, Robotics, 3d printing for Agriculture components are offered as electives.

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

Action Taken: Practices already started with R17 regulations and are continued in this regulation too.

Suggestion: The curriculum must improve the placements of the department

Action Taken: Modular courses and Value added courses are offered as a one-credit course and every student must undergo at least one modular course taught by an external expert from Industry. Along with that courses from APSSDC are offered to improve the knowledge on software packages as an add-on course in the curriculum

Action taken based on the suggestions from Alumni:

- Q1. Curriculum has paved a good foundation in understanding the basic engineering concepts
- Q2. Course Contents of Curriculum are in tune with the Program Outcomes
- Q3. Curriculum imparted all the required Agriculture Job Oriented Skills / prerequisite to pursue higher education
- Q4. Electives of Curriculum served the technical advancements needed to serve in the industry
- Q5. Tools and Methodologies followed during practical sessions has enriched the required practical knowledge to serve in Industry
- Q6. Ability to compete with your peers from other Universities
- Q7. Current curriculum meets the present industry demands

**Analysis of Overall Feedback given by the Alumni on R17**

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	12.5	75	12.5	0	0	4	Excellent
Q2	12.5	37.5	37.5	12.5	0	3.5	Very Good
Q3	12.5	12.5	25	37.5	12.5	2.75	Moderate
Q4	12.5	37.5	25	25	0	3.375	Good
Q5	12.5	25	12.5	50	0	3	Good
Q6	25	12.5	37.5	12.5	12.5	3.25	Good
Q7	12.5	50	25	0	12.5	3.5	Very Good

Itemized responses given to the suggestions of Alumni

Suggestion: Special focus need to be given to fast learners.

Action Taken: As continue with previous regulations Honour degree has been offered to the fast learners who have zero backlog history with 8.0 CGPA till end of second year.

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 Electric and hybrid vehicles, Robotics,3d printing for Agriculture components are offered as electives.

Suggestion: Add employability courses in curriculum

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

Action taken based on the suggestions from Faculty:

Q1. Curriculum designed is in tune with program Vision and Mission

Q2. Contents of the curriculum enhances the 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 Justifiable
Q5.Electives offered in the program makes the faculty to explore latest technologies.
Q6.Curriculum providing opportunity towards self-learning to meet the expectations
Q7.Composition of Basic Sciences, Engineering, Humanities and Management Courses Satisfiable
Q8.Number of theoretical courses and laboratory sessions sufficient to improve the technical skills of students
Q9.Suggest any other points to improve the quality of the curriculum

Analysis of Overall Feedback given by the Faculty on R17

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	50.6	23.4	18.2	3.9	3.9	4.129	Excellent
Q2	50.6	36.4	3.9	9.1	0	4.285	Excellent
Q3	50.6	45.5	3.9	0	0	4.467	Excellent
Q4	49.4	23.4	23.4	3.9	0	4.186	Excellent
Q5	55.8	44.2	0	0	0	4.558	Excellent
Q6	57.1	33.8	3.9	5.2	0	4.428	Excellent
Q7	55.8	32.5	9.1	2.6	0	4.415	Excellent
Q8	61	33.8	5.2	0	0	4.558	Excellent
Q9	54.5	41.6	3.9	0	0	4.506	Excellent

Itemized responses given to the suggestions of Faculty

Suggestion: latest BS Standards for Vehicle emission norms to be included.

Action Taken: These topics are covered in Farm Machinery Emissions and control which is offered as mandatory course

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 3D printing need to be provided to all the students irrespective of discipline

Action Taken: Concepts of 3D printing for Agriculture have been incorporated.



Suggestion: Knowledge about motorsport vehicles is required

Action Taken: Subjects like racing two and four wheelers, fundamentals of motor sport engineering are offered as Department electives

Action taken based on the suggestions from Employers:

Q1.Course Contents of B.Tech Agriculture Engineering Curriculum is in tune with the Program Outcomes

Q2.Relevance of the Course Contents in tune with the Industry Demands

Q3.Elective are in-line with the technology advancements in Modelling and Agriculture Manufacturing Sectors

Q4.Applicability of the tools and technologies described in the curriculum will be enough to practice in Industry.

Q5.Problem Solving and Soft Skills acquired by the students through the course contents will enable them to be placed in product and process industry.

Analysis of Overall Feedback given by the Employers on R17

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	66.7	0	0	33.3	0	4.001	Excellent
Q2	55.6	11.1	11.1	22.2	0	4.001	Excellent
Q3	66.7	0	33.3	0	0	4.334	Excellent
Q4	55.6	11.1	33.3	0	0	4.223	Excellent
Q5	44.4	22.2	11.1	22.2	0	3.885	Very Good

Itemized responses given to the suggestions of Employers

Suggestion: More emphasis on communication and technical terminologies.

Action Taken: Certifications like PET and BEC, CRT and life skills have been offered throughout the program at different stages.

Suggestion: Awareness on Vehicle maintenance should be given to the students.

Action Taken: A course on vehicle evaluation and Maintenance has been incorporated in the curriculum.

Suggestion: Courses on current trends are to be offered.

Action Taken: Robotics, Modelling of Electric and Hybrid vehicles, NVH offered as electives.



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

Action Taken: Practices already started with R17 regulations and are continued in this regulation too.

Suggestion: as per BS Standards, Supercharging and turbo charging areas need to be covered in the curriculum

Action Taken: These topics are covered in a course called Supercharging and turbo charging which is offered as elective course.

Action taken based on the suggestions from Parents:

1. Satisfaction of Academic and Emotional Progression of your ward
2. Satisfaction with the offered curriculum for your wards future endeavours?
3. Overall assessment of technical knowledge acquired by your ward who is pursuing his/her program in our University
4. Competency of your ward is on par with the students from other Universities/Institutes
5. Course Curriculum is of the global standard and is in tune with the needs of Farm Machinery and IT enabled industries

Analysis of Overall Feedback given by the Parents on R17

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	62.5	12.5	12.5	12.5	0	4.25	Excellent
Q2	62.5	12.5	12.5	0	12.5	4.125	Excellent
Q3	62.5	12.5	12.5	0	12.5	4.125	Excellent
Q4	62.5	12.5	12.5	12.5	0	4.25	Excellent
Q5	62.5	12.5	12.5	12.5	0	4.25	Excellent

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

Suggestion: Apart from curriculum, training by Yoga and physical fitness is to be given to students.

Action Taken: New 1 credit course of Yoga and physical fitness, Sports has been introduced to the students in R20 Curriculum

Suggestion: Students need to be work on real time problems faced by current 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: Students should be cautious about Ethics and values.

Action Taken: A course has been introduced as mandatory course called professional Ethics, human values and gender equity.

Suggestion: Special focus need to be given for managerial behaviour.

Action Taken: As continue with previous regulations management science has been offered to the Students as a mandatory Course.

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