



**DEPARTMENT OF APPLIED ENGINEERING**

**Action Taken Report on M.Tech Farm Machinery Program R14 Feedback Implemented in R17 introduced in the AY 2016 – 17**

**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 R14**

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
<b>Q1</b>	57.1	42.9	0	0	0	4.571	<b>Excellent</b>
<b>Q2</b>	42.9	57.1	0	0	0	4.429	<b>Excellent</b>
<b>Q3</b>	100	0	0	0	0	5	<b>Excellent</b>
<b>Q4</b>	85.7	14.3	0	0	0	4.857	<b>Excellent</b>
<b>Q5</b>	57.1	42.9	0	0	0	4.571	<b>Excellent</b>
<b>Q6</b>	85.7	14.3	0	0	0	4.857	<b>Excellent</b>
<b>Q7</b>	85.7	14.3	0	0	0	4.857	<b>Excellent</b>
<b>Q8</b>	57.1	42.9	0	0	0	4.571	<b>Excellent</b>
<b>Q9</b>	85.7	14.3	0	0	0	4.857	<b>Excellent</b>



### **Itemized responses given to the Suggestions of Students**

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

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

**Suggestion:** Apart from curriculum training by Industrial Expert is to be given to students.

**Action Taken:** Concept of Modular course has been introduced in III Year in which expert from Industry will take up a course and was introduced for 1 credit.

**Suggestion:** A recent trend on Farm Machinery manufacturing technologies is to be emphasised.

**Action Taken:** Courses like MPAC, Vehicle Body engineering, are offered as manufacturing stream .

**Suggestion:** The curriculum must improve the placements of the department

**Action Taken:** Modular 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 R14

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

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

**Suggestion:** Materials for Farm Machinery industry, Farm Machinery Chassis and MVT need to be added in Curriculum

**Action Taken:** the above mentioned subjects are introduced with new technologies.

**Suggestion:** Analysis software's to be offered with design subjects

**Action Taken:** **Farm Machinery Components Design** Course is integrated with catia lab and minor project is as included to improve analysing skills.

**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:** 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 R14**

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	53.7	18.5	16.7	5.6	5.6	4.094	Excellent
Q2	53.7	33.3	3.7	9.3	0	4.314	Excellent
Q3	55.6	38.9	5.6	0	0	4.504	Excellent
Q4	53.7	20.4	20.4	5.6	0	4.225	Excellent
Q5	59.3	40.7	0	0	0	4.593	Excellent
Q6	61.1	27.8	7.4	3.7	0	4.463	Excellent
Q7	55.6	27.8	11.1	5.6	0	4.337	Excellent
Q8	68.5	25.9	5.6	0	0	4.629	Excellent
Q9	53.7	40.7	3.7	1.9	0	4.462	Excellent

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

**Suggestion:** Students should correlate the theoretical knowledge and practical applications

**Action Taken:** Theory courses are integrated with lab courses where ever possible with an inclusion of minor project to impart skill based learning

**Suggestion:** More Design software's has to be implement in the course curriculum

**Action Taken:** Hands on experience on design and modelling software's are planned to offered as value added courses

**Suggestion:** up-to-date technologies like RTTW, Electric vehicles, Nano technology in Agriculture need to include in curriculum.

**Action Taken:** new courses have been offered as department electives and open electives broadening the selection window based on their own interest

**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 R14**

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	0	25	25	50	0	2.75	Moderate
Q2	25	0	25	50	0	3	Good
Q3	25	50	25	0	0	4	Excellent
Q4	25	25	50	0	0	3.75	Very Good
Q5	25	50	25	0	0	4	Excellent

**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:** Recent trends on Farm Machinery manufacturing technologies is to be emphasised

**Action Taken:** Courses like Nanotechnology, Vehicle body engineering, manufacturing process for Farm Machinery components is included in the R16 Curriculum

**Suggestion:** Awareness on material property evaluation required

**Action Taken:** materials for Farm Machinery industry subject are included with new technologies required for industry needs.

**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 R14**

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	47.3	36.2	14.9	0	1.6	4.276	Excellent
Q2	47.3	38.8	9.6	2.7	1.6	4.275	Excellent
Q3	36.7	50.5	6.9	0	5.9	4.121	Excellent
Q4	47.3	34.6	12.2	0	5.9	4.174	Excellent
Q5	56.4	21.3	16.5	2.7	3.2	4.253	Excellent

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

**Suggestion:** Give more importance for computing and programming in curriculum.

**Action Taken:** subjects like computer programming in first year and Data structure in third year as main course is added in curriculum.

**Suggestion:** The curriculum should be more practical oriented than theory and suitable for project-oriented learning

**Action Taken:** Lab integrated with Theory and Minor projects along with core courses transform the students as industry ready.

**Suggestion:** Add employability courses in curriculum

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

**Suggestion:** The curriculum must improve the placements of the department

**Action Taken:** Modular courses are offered as a one-credit course and every student must undergo at least one modular course.

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