



## DEPARTMENT OF MECHANICAL ENGINEERING

### Action Taken Report on M. Tech MD Program R14 Feedback Implemented in R17 introduced in the AY 2017- 18

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

- Q1. Course Contents of Curriculum in tune with the Program Outcomes
- Q2. Course Contents designed offered enriches Core Competencies
- Q3. Courses offered in the curriculum serves the needs of Mechanical Industries
- 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. No. of Laboratory sessions and Theory Courses have been sufficient to improve the technical skills

#### Analysis of Overall Feedback given by the Students on R14

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	61.9	38.1	0	0	0	4.619	Excellent
Q2	57.1	19	23.8	0	0	4.329	Excellent
Q3	47.6	52.4	0	0	0	4.476	Excellent
Q4	38.1	57.1	4.8	0	0	4.333	Excellent
Q5	71.4	28.6	0	0	0	4.714	Excellent
Q6	95.2	4.8	0	0	0	4.952	Excellent
Q7	61.9	14.3	23.8	0	0	4.381	Excellent

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

1. **Suggestion:** to include problematic courses in design

**Action Taken:** care is taken to cover exercise problems in design courses offered in R14 Curriculum.

2. **Suggestion:** To have vibration courses and practical knowledge.

**Action Taken:** More number of case studies and identification the cause and effect of vibration problems in the machinery are done in the course 'Mechanical Vibrations' course.

3. **Suggestion:** to have more analysis packages more

**Action Taken:** Apart from structural analysis students are also trained in thermal and Fluid analysis in ANSYS.

4. **Suggestion:** add materials courses more

**Action Taken:** Courses like nanotechnology, Mechanics of Composite materials, Tribology have been offered as Electives.

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

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

Q2. Course Contents of Curriculum fulfilled the specified Program Outcomes

Q3. Curriculum imparted all the required 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. Competency with your peers from other Institutions

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	38.5	61.5	0	0	0	4.385	Excellent
Q2	15.4	76.9	7.7	0	0	4.077	Excellent
Q3	61.5	38.5	0	0	0	4.615	Excellent
Q4	23.1	69.2	7.7	0	0	4.154	Excellent
Q5	46.2	53.8	0	0	0	4.462	Excellent
Q6	30.8	53.8	15.4	0	0	4.154	Excellent
Q7	15.4	69.2	15.4	0	0	4	Excellent

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

1. **Suggestion:** Add advance FEM with lab

**Action Taken:** As suggested, AFEA syllabus is modified as theory with lab component

**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 Satisfiable
- Q4. Contact Hour Distribution among the various Course Components (LTP) is Satisfiable
- 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. Number of theoretical courses and laboratory sessions sufficient to improve the technical skills of students

**Analysis of Overall Feedback given by the Faculty on R14**

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	52.9	47.1	0	0	0	4.529	Excellent
Q2	94.1	5.9	0	0	0	4.941	Excellent
Q3	5.9	94.1	0	0	0	4.059	Excellent
Q4	100	0	0	0	0	5	Excellent
Q5	0	100	0	0	0	4	Excellent
Q6	0	47.1	52.9	0	0	3.471	Good
Q7	100	0	0	0	0	5	Excellent

**Itemized responses given to the suggestions of Faculty (that are relevant to MD are considered)**

1. **Suggestion:** To have prior knowledge on softwares before appearing internship in industries.  
**Action Taken:** As per concern from faculty students are made aware of modelling and analysis softwares before going for internship in second year.
2. **Suggestion:** Non-Destructive testing in their curriculum which is useful for industrial applications  
**Action Taken:** Condition Monitoring and Fault Diagnosis of machinery is offered as elective and students will be made aware the importance of subject in practical point of view.

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

- Q1. Course Contents of M.Tech Machine Design 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 Design Sectors

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

**Analysis of Overall Feedback given by the Employers on R14**

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	40	40	20	0	0	4.2	Excellent
Q2	40	60	0	0	0	4.4	Excellent
Q3	60	40	0	0	0	4.6	Excellent
Q4	40	60	0	0	0	4.4	Excellent

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

1. **Suggestion:** Employability Skills to be improved

**Action Taken:** As R20 curriculum is based on project based learning the project presentations delivered out by students and EOP definitely helps in improving communication skills.

2. **Suggestion:** Practical knowledge should be given more emphasis

**Action Taken:** As R17 Curriculum is skill based more emphasis given on practical component of theoretical concepts for better understanding of the courses.

3. **Suggestion:** NDT techniques and Reliability knowledge is required

**Action Taken:** CMFDM and Reliability Engineering are offered as electives and students are made aware of the practical importance of courses in industrial point of view.

**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. Your ward's competency with the students from other Institutes
5. Curriculum offered is in tune with current Industry needs

**Analysis of Overall Feedback given by the Parents on R14**

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	30.8	69.2	0	0	0	4.308	Excellent
Q2	69.2	30.8	0	0	0	4.692	Excellent
Q3	53.8	30.8	15.4	0	0	4.384	Excellent
Q4	38.5	38.5	23.1	0	0	4.158	Excellent
Q5	53.8	46.2	0	0	0	4.538	Excellent

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

1. **Suggestion:** include more design course.

**Action Taken:** As suggested, more courses on design are offered as electives apart from regular courses.

2. **Suggestion:** to have software packages

**Action Taken:** Students are made to practice software packages on modelling and analysis for AFEA and also to carry out project works.

3. **Suggestion:** to introduce vibration courses

**Action Taken:** Mechanical Vibration course is continued as it is in R14 curriculum



Signature