

**VIGNAN'S**

Foundation for Science, Technology & Research

(Deemed to be University)

-Estd. u/s 3 of UGC Act 1956

DEPARTMENT OF MECHANICAL ENGINEERING

Action Taken Report on M. Tech MD Program R17 Feedback Implemented in R20 introduced in the AY 2020- 21

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 R17

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	52.9	35.3	11.8	0	0	4.411	Excellent
Q2	61.8	38.2	0	0	0	4.618	Excellent
Q3	52.9	47.1	0	0	0	4.529	Excellent
Q4	52.9	29.4	17.6	0	0	4.349	Excellent
Q5	61.8	38.2	0	0	0	4.618	Excellent
Q6	67.6	29.4	2.9	0	0	4.643	Excellent
Q7	76.5	8.8	14.7	0	0	4.618	Excellent

Itemized responses given to the Suggestions of Students

1. **Suggestion:** To include FEM in practical way

Action Taken: To make FEM in more practical way syllabus has been modified in such a way that the lab part is included with more real time case studies.

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 include advance courses like shape memory alloys and automation.

Action Taken: As per suggestion from students courses like Robotics and Automation is offered as regular course, Mechanisms for Automation Systems, Design of Shape Memory Alloy Actuators as elective courses offered in R20 Curriculum,

4. Suggestion: To increase more number of modelling software packages.

Action Taken: In Computer Aided Simulation offered as regular course, students are made hands on practice on CREO and modelling softwares like Solid works, CATIA, AutoCAD are offered as Value Added Courses.

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 R17

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	40	60	0	0	0	4.4	Excellent
Q2	60	40	0	0	0	4.6	Excellent
Q3	70	20	10	0	0	4.6	Excellent
Q4	70	30	0	0	0	4.7	Excellent
Q5	40	50	10	0	0	4.3	Excellent
Q6	50	50	0	0	0	4.5	Excellent
Q7	40	50	10	0	0	4.3	Excellent

Itemized responses given to the suggestions of Alumni

1. Suggestion: Add advance FEM with lab

Action Taken: As suggested, FEM syllabus is modified as case bases studies rather conceptual base.

- Suggestion:** Add more design courses.

Action Taken: Courses like Failure Analysis, Mechanisms for Automation, Shape Memory Actuators Design are been offered which will benefit the students.

- Suggestion:** ADD COURSE ON ROBOTICS AND AUTOMATION.

Action Taken: Robotics and Automation has been incorporated as regular course from R20 regulation onwards.

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 R17

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	54.8	19.4	25.8	0	0	4.29	Excellent
Q2	96.8	3.2	0	0	0	4.968	Excellent
Q3	12.9	87.1	0	0	0	4.129	Excellent
Q4	100	0	0	0	0	5	Excellent
Q5	0	100	0	0	0	4	Excellent
Q6	0	41.9	58.1	0	0	3.419	Good
Q7	100	0	0	0	0	5	Excellent

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

- Suggestion:** Students have expected more courses on open source tools such as CATIA, SOLID WORKS for design and analysis.

Action Taken: As per concern from faculty the fore-mentioned courses are offered as value added courses to students.

- Suggestion:** Case study based learning need to be implemented.

Action Taken: Courses offered as Theory + Lab are incorporated with case based experiments for better understanding and applicability of the concepts.

3. Suggestion: Robotics course to be incorporated.

Action Taken: Robotics and Automation has been offered as regular course in R20 Curriculum.

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 R17

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	40	60	0	0	0	4.4	Excellent
Q2	60	40	0	0	0	4.6	Excellent
Q3	80	20	0	0	0	4.8	Excellent
Q4	20	80	0	0	0	4.2	Excellent

Itemized responses given to the suggestions of Employers

1. Suggestion: Communication skills to be improved.

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

2. Suggestion: Failure Analysis knowledge is required

Action Taken: As per suggestion Failure Analysis Course has been offered as regular course.

3. Suggestion: Advanced courses on materials to be incorporated

Action Taken: Design of Shape Memory Alloy Actuators has been offered as elective.

4. Suggestion: Interdisciplinary skills to be improved

Action Taken: Introduction of interdisciplinary audit courses in R20 curriculum and MOOCS courses definitely improves interdisciplinary knowledge.

5. Suggestion: MOOCS courses need to be offered

Action Taken: As per initiatives from AICTE and suggestions from employers MOOCS has been made mandate to improve life learning skills of students.

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 R17

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	64	28	8	0	0	4.56	Excellent
Q2	64	28	8	0	0	4.56	Excellent
Q3	56	32	12	0	0	4.44	Excellent
Q4	52	36	12	0	0	4.4	Excellent
Q5	52	32	16	0	0	4.36	Excellent

Itemized responses given to the suggestions of Parents

Suggestion: include high knowledge over design course.

Action Taken: As suggested, courses that became stagnate are replaced with courses of importance as per latest needs

Suggestion: add analysis software more in depth

Action Taken: Necessary modifications are done in lab session of Computer aided Simulation course.

Suggestion: add advance courses on design

Action Taken: Courses like Mechanisms for Automation, Design of Shape Memory Alloy Actuators and Failure Analysis are been offered.


Signature