



DEPARTMENT OF MECHANICAL ENGINEERING

**Action Taken Report on B.Tech., Mechanical Engineering Program R19 & R21
Feedback**

Implemented in R22 introduced in the AY: 2022 – 23

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 Mechanical 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. No. of Laboratory sessions and Theory Courses have been sufficient to improve the technical skills

Analysis of Overall Feedback given by the Students on R19 & R21

| | Strongly Agree | Agree | Moderate | Disagree | Strongly Disagree | Avg. Rating | Grade |
|----|----------------|-------|----------|----------|-------------------|-------------|-----------|
| Q1 | 41.2 | 29.4 | 17.6 | 0 | 0 | 3.764 | Very-Good |
| Q2 | 41.2 | 23.5 | 11.8 | 11.8 | 0 | 3.59 | Very Good |
| Q3 | 58.8 | 23.5 | 5.9 | 0 | 0 | 4.057 | Excellent |
| Q4 | 41.2 | 35.3 | 5.9 | 5.9 | 0 | 3.767 | Very Good |
| Q5 | 41.2 | 41.2 | 0 | 5.9 | 0 | 3.826 | Very Good |
| Q6 | 47.1 | 23.5 | 5.9 | 11.8 | 0 | 3.708 | Very Good |
| Q7 | 47.1 | 17.6 | 11.8 | 11.8 | 0 | 3.649 | Very Good |
| Q8 | 41.2 | 23.5 | 23.5 | 0 | 0 | 3.705 | Very Good |

Itemized responses given to the Suggestions of Students

Suggestion: Increase lab hours and learn by doing practice

Action Taken: More emphasis is given on practices and transaction.



Suggestion: Attendance criteria need to be modified to enable more learning.

Action Taken: Course wise attendance criteria is implemented.

Suggestion: Give more credits for nptel courses.

Action Taken: Credits of 9 is allotted to NPTEL courses.

Suggestion: Reduce the external weightage

Action Taken: Weightage for external is reduced from 60 to 40 marks

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 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 R19 & R21

| | Strongly Agree | Agree | Moderate | Disagree | Strongly Disagree | Avg. Rating | Grade |
|----|----------------|-------|----------|----------|-------------------|-------------|-----------|
| Q1 | 96.4 | 0 | 0 | 0 | 0 | 4.82 | Excellent |
| Q2 | 92.9 | 3.6 | 0 | 0 | 0 | 4.789 | Excellent |
| Q3 | 92.9 | 3.6 | 0 | 0 | 0 | 4.789 | Excellent |
| Q4 | 96.4 | 0 | 0 | 0 | 0 | 4.82 | Excellent |
| Q5 | 92.9 | 3.6 | 0 | 0 | 0 | 4.789 | Excellent |
| Q6 | 92.9 | 3.6 | 0 | 0 | 0 | 4.789 | Excellent |
| Q7 | 92.9 | 3.6 | 0 | 0 | 0 | 4.789 | Excellent |

Itemized responses given to the suggestions of Alumni

Suggestion: Weightage for internal marks can be increased.

Action Taken: Weightage for internal is increased from 40 to 60 marks



Suggestion: Minor degrees in other disciplines to be incorporated.

Action Taken: Minor degree concept was introduced from which each program is offering different sort of courses related to latest technologies.

Suggestion: Honors degree programs to be incorporated.

Action Taken: Honors degree concept was introduced from which each program is offering different sort of courses related to latest technologies.

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 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. 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

Analysis of Overall Feedback given by the Faculty on R19 & R21

| | 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 |
| Q6 | 100 | 0 | 0 | 0 | 0 | 5 | Excellent |
| Q7 | 100 | 0 | 0 | 0 | 0 | 5 | Excellent |
| Q8 | 100 | 0 | 0 | 0 | 0 | 5 | Excellent |



Itemized responses given to the suggestions of Faculty

Suggestion: Way of assessment need to be modified.

Action Taken: Assessment process is modified to Formative and summative as per NEP2020.

Suggestion: Industry Institute courses need to be implemented.

Action Taken: Industry Institute courses is implemented and guest lectures from Industry persons are introduced in every course on Saturdays.

Suggestion: Discussion sessions to be kept in the time table

Action Taken: Discussion sessions in each course is given in the timetable where in students can clarify their doubts and can make discussions related to the courses which enables learning abilities

Action taken based on the suggestions from Employers:

- Q1. Course Contents of B.Tech Mechanical 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 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 R19 & R21

| | 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 | 85.7 | 14.3 | 0 | 0 | 0 | 4.857 | Excellent |

Itemized responses given to the suggestions of Employers

Suggestion: Industry interaction with students can be arranged.



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Department of Mechanical Engineering

Action Taken: Guest lectures from Industry persons and Industry Interaction courses are introduced in the curriculum.

Suggestion: Interdisciplinary knowledge can be improved.

Action Taken: Minor degree and Open elective courses are introduced in the curriculum enables the students to have more Interdisciplinary knowledge.

Suggestion: Good knowledge in coding can be incorporated.

Action Taken: Courses to improve coding knowledge are introduced.

Suggestion: Incorporation of advanced manufacturing techniques.

Action Taken: Latest manufacturing techniques are introduced includes 3D printing, WAAM etc.

Signature

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