



**Minutes of CDMC Meeting**

07-03-2020

The members of Curriculum Design and Monitoring Committee for B.Tech Mechanical Engineering program met on 07-03-2020 at AGF-06, 'U' block, of VFSTR. The following members attended the meeting.

S.No	Members	Designation	Signatures
1.	Dr. L S Raju, Professor & HoD	Chairman	
2.	Dr. G Suresh, Assoc. Professor	Member	
3.	Mr. Mihir Barman, Assistant Professor	Member	
4.	Mr. T Ch Anil Kumar, Assistant Professor	Member	

**Agenda of the meeting**

1. Analysis of the feedback collected from various stakeholders such as Alumni, Employers, Faculty, Parents and Students during the academic year 2019-20.

The following are the important points of analysis obtained from various stakeholders:

1. For the benefit of student fraternity, it is decided that R20 Curriculum will be of Project based learning as to that of R19 Curriculum to B. Tech
2. Special focus is given on intradisciplinary and interdisciplinary mini projects
3. Theory integrated lab courses like in R17 Curriculum is followed in R20 Curriculum
4. Courses like employability skills and research methodology are retained in R20 Curriculum also as mandate courses which are offered in R17 Curriculum.
5. Students requested to offer courses on automation and shape memory alloys
6. Employers suggested to offer MOOCS courses to the students for enabling life learning skills
7. Parents recommended to offer case based learning design courses
8. Parents also recommended more in depth design courses as per industrial requirements
9. Alumni suggested to offer courses in the field of robotics and automation
10. Faculty suggested to offer case based learning approach in course design

Detailed feedback analysis report is enclosed as Annexure-I

The outcomes of the meeting will be placed before the BoS for further discussion and recommendations.

Chairman, CDMC





### Annexure-I

## **FEEDBACK ANALYSIS OF ALUMNI on M. Tech-Machine Design Curriculum in AY: 2019 – 20**

Feedback has been received from the Alumni on the following parameters:

- 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

The categorization of rating is as follows: Strongly Agree (5), Agree (4), Moderate (3), Disagree (2) and Strongly Disagree (1).

Feedback Analysis is carried based on Average Satisfaction Rating. Rating categorization is carried based on Excellent ( $\geq 4$ ); Very Good ( $\geq 3.5$  &  $< 4$ ); Good ( $\geq 3$  &  $< 3.5$ ); Moderate ( $> 2$  &  $< 3$ ) and Unsatisfactory ( $< 2$ ).

### **Feedback from Alumni 2019-20 (Academic Year) - PG –M. Tech (MMD)**

The result derived in terms of percentage of Alumni with common views, average score, and ratings is presented in Table 1.

**Table 1: Analysis of feedback from Alumni 2019–20**

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	100	0	0	0	0	5	Excellent
Q2	0	100	0	0	0	4	Excellent
Q3	100	0	0	0	0	5	Excellent
Q4	100	0	0	0	0	5	Excellent
Q5	0	100	0	0	0	4	Excellent
Q6	100	0	0	0	0	5	Excellent
Q7	0	0	100	0	0	4	Excellent



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The highest score of 5 was given to the parameters “Curriculum has paved a good foundation in understanding the concepts”, Curriculum imparted all the required Job Oriented Skills / prerequisite to pursue higher education”, and “Electives of Curriculum served the technical advancements needed to serve in the industry” and “ Competency with your peers from other Institutions”.

Followed by “Course Contents of Curriculum fulfilled the specified Program Outcomes” and “Tools and Methodologies followed during practical sessions has enriched the required practical knowledge to serve in Industry” and “Current curriculum meets the present industry demands” with a score of 4 has been rated as Excellent for foresaid parameters.





## FEEDBACK ANALYSIS OF EMPLOYER on M. Tech-Machine Design Curriculum in AY: 2019 – 20

Feedback has been received from the employer on the following parameters:

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

The categorization of rating is as follows: Strongly Agree (5), Agree (4), Moderate (3), Disagree (2) and Strongly Disagree (1).

Feedback Analysis is carried based on Average Satisfaction Rating. Rating categorization is carried based on Excellent ( $\geq 4$ ); Very Good ( $\geq 3.5$  &  $< 4$ ); Good ( $\geq 3$  &  $< 3.5$ ); Moderate ( $> 2$  &  $< 3$ ) and Unsatisfactory ( $< 2$ )

### Feedback from Employer 2019-20 (Academic Year) - PG –M. Tech (MMD)

The result derived in terms of percentage of employer with common views, average score, and ratings is presented in Table 1.

**Table 1: Analysis of feedback from Employer 2019–20**

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	0	100	0	0	0	4	Excellent
Q2	100	0	0	0	0	5	Excellent
Q3	100	0	0	0	0	5	Excellent
Q4	0	100	0	0	0	4	Excellent

The highest score of 5 was given to the parameters “Relevance of the Course Contents in tune with the Industry Demands” and “Elective are in-line with the technology advancements in Modelling and Design Sectors” and has been rated as Excellent.



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It is clearly visible from the table that the parameters "Course Contents of M.Tech Machine Design Curriculum is in tune with the Program Outcomes" obtained average scores 4 and has been rated as Excellent.

The parameter "Applicability of the tools and technologies described in the curriculum will be enough to practice in Industry" obtained the scores of 4 and has been rated as Excellent which will be considered and benefit the students.

Time to time meetings were conducted at the department level to leverage new and advanced techniques to improve the problem solving skills and soft skills of the students which enable them to be placed in Mechanical Industry.

The feedback analysis given by employer reveals that by improving the required skills of students and enable Industry Demands helps the student to get placements.





## FEEDBACK ANALYSIS OF FACULTY on M. Tech-Machine Design Curriculum in AY: 2019 – 20

Feedback has been received from the Faculty on the following parameters:

- 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

The categorization of rating is as follows: Strongly Agree (5), Agree (4), Moderate (3), Disagree (2) and Strongly Disagree (1).

Feedback Analysis is carried based on Average Satisfaction Rating. Rating categorization is carried based on Excellent ( $\geq 4$ ); Very Good ( $\geq 3.5$  &  $< 4$ ); Good ( $\geq 3$  &  $< 3.5$ ); Moderate ( $> 2$  &  $< 3$ ) and Unsatisfactory ( $< 2$ )

### Feedback from Faculty 2019-20 (Academic Year) - PG –M. Tech (MMD)

The result derived in terms of percentage of Faculty with common views, average score, and ratings is presented in Table 1.

**Table 1: Analysis of feedback from Faculty 2019–20**

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	100	0	0	0	0	4.727	Excellent
Q2	90.9	9.1	0	0	0	4.909	Excellent
Q3	9.1	90.9	0	0	0	4.091	Excellent
Q4	100	0	0	0	0	5	Excellent
Q5	0	100	0	0	0	4	Excellent
Q6	0	0	100	0	0	3	Good
Q7	100	0	0	0	0	5	Excellent



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The highest score of 5 was given to the parameters “Contact Hour Distribution among the various Course Components (LTP) is Satisfiable and “No. of Laboratory sessions and Theory Courses have been sufficient to improve the technical skills” and has been rated as Excellent.

It is clearly visible from the table that the parameters “Course Contents designed offered enriches Core Competencies” “Course Contents of Curriculum in tune with the Program Outcomes” and “Courses offered in the curriculum serves the needs of Mechanical Industries” obtained average scores 4.909, 4.727 and 4.091 respectively and has been rated as Excellent.

The parameters “Electives have enabled the passion to learn new technologies in emerging and Interdisciplinary Areas” and “Curriculum providing enable towards self-learning” the score is 4, 3 respectively and has been rated as Excellent and Good.





## FEEDBACK ANALYSIS OF PARENTS on M. Tech-Machine Design Curriculum in AY: 2019 – 20

Feedback has been received from the parents on the following parameters:

- Q1. Satisfaction of Academic and Emotional Progression of your ward
- Q2. Satisfaction with the offered curriculum for your wards future endeavours
- Q3. Overall assessment of technical knowledge acquired by your ward who is pursuing his/her program in our University
- Q4. Your ward's competency with the students from other Institutes
- Q5. Curriculum offered is in tune with current Industry needs

The categorization of rating is as follows: Strongly Agree (5), Agree (4), Moderate (3), Disagree (2) and Strongly Disagree (1).

Feedback Analysis is carried based on Average Satisfaction Rating. Rating categorization is carried based on Excellent ( $\geq 4$ ); Very Good ( $\geq 3.5$  &  $< 4$ ); Good ( $\geq 3$  &  $< 3.5$ ); Moderate ( $> 2$  &  $< 3$ ) and Unsatisfactory ( $< 2$ )

### Feedback from Parent 2019-20 (Academic Year) - PG –M. Tech (MMD)

The result derived in terms of percentage of Parent with common views, average score, and ratings is presented in Table 1.

**Table 1: Analysis of feedback from Parent 2019–20**

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	40	60	0	0	0	4.4	Excellent
Q2	60	20	20	0	0	4.4	Excellent
Q3	40	40	20	0	0	4.2	Excellent
Q4	40	60	0	0	0	4.4	Excellent
Q5	20	80	0	0	0	4.2	Excellent

The highest score of 4.4 was given to the parameter “Satisfaction of Academic and Emotional Progression of your ward”, “Satisfaction with the offered curriculum for your wards future endeavours” and “Your ward's competency with the students from other Institutes” all are has been rated as Excellent.

It is clearly visible from the table that the parameters “Overall assessment of technical knowledge acquired by your ward who is pursuing his/her program in our University” and





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“Curriculum offered is in tune with current Industry needs” obtained average scores 4.2 and has been rated as Excellent.



## FEEDBACK ANALYSIS OF STUDENTS on M. Tech-Machine Design Curriculum in AY: 2019 – 20

Feedback has been received from the students on the following parameters:

- 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

The categorization of rating is as follows: Strongly Agree (5), Agree (4), Moderate (3), Disagree (2) and Strongly Disagree (1).

Feedback Analysis is carried based on Average Satisfaction Rating. Rating categorization is carried based on Excellent ( $\geq 4$ ); Very Good ( $\geq 3.5$  &  $< 4$ ); Good ( $\geq 3$  &  $< 3.5$ ); Moderate ( $> 2$  &  $< 3$ ) and Unsatisfactory ( $< 2$ )

### Feedback from Students 2018-19 (Academic Year) - PG –M. Tech (MMD)

The result derived in terms of percentage of student with common views, average score, and ratings is presented in Table 1.

Table 1: Analysis of feedback from Student 2019–20

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	70.6	29.4	0	0	0	4.2	Excellent
Q2	80	20	0	0	0	4.8	Excellent
Q3	50	45	0	0	0	4.6	Excellent
Q4	80	20	0	0	0	3.8	Very Good
Q5	60	40	0	0	0	4.6	Excellent
Q6	58.8	41.2	0	0	0	4.4	Excellent
Q7	60	40	0	0	0	4.8	Excellent

The highest score of 4.8 was given to the parameters “Course Contents designed offered enriches Core Competencies” and No. of Laboratory sessions and Theory Courses have been sufficient to improve the technical skills”and has been rated as Excellent.





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The parameters "Courses offered in the curriculum serves the needs of Mechanical Industries" and "Electives have enabled the passion to learn new technologies in emerging and Interdisciplinary Areas" obtained an average score of 4.6 and are rated as excellent followed by "Curriculum providing enable towards self-learning" rated as excellent obtained an average score of 4.4.

It is clearly visible from the table that the parameters "Course Contents of Curriculum in tune with the Program Outcomes" obtained average scores 4.2 and has been rated as Excellent.

The parameter "Contact Hour Distribution among the various Course Components (LTP) is Satisfiable" obtained the score of 3.8 which has been rated as Very Good.

  
Chairman, CDMC