

**Minutes of CDMC Meeting**

09-06-2021

The members of Curriculum Design and Monitoring Committee for B.Tech Mechanical Engineering program met on ~~09.06.2021~~ 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. D Satyanarayana, Professor	Member	
3.	Dr. G Suresh, Associate Professor	Member	
4.	Mr. N B Prakash T, Assistant Professor	Member	

Agenda of the meeting

Analysis of the feedback collected from various stakeholders such as Alumni, Employers, Faculty and Students during the academic year 2020-21.

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

1. Programming skills should be offered to students
2. Knowledge on few programming like python, AI can be introduced
3. Statistical Methods should be taught
4. Needs hands on training on latest machining
5. Web technologies can be introduced
6. Projects related to programming need to be incorporated
7. Project based learning can be continued
8. Sports and physical fitness introduced in R19 should be continued
9. Electives related to safety and maintenance
10. Experiments related to EDM can be incorporated



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11. Special emphasis on software programming to attract software jobs

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 B.Tech-Mechanical Engineering Curriculum in AY: 2020 – 21

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

- 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

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 (≥ 4); Very Good (≥ 3.5 & < 4); Good (≥ 3 & < 3.5); Moderate (> 2 & < 3) and Unsatisfactory (< 2)

Feedback from Alumni 2020-21 (Academic Year) - UG – B. Tech (ME)

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 2020–21

Parameter	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	92.3	7.7	0	0	0	4.923	Excellent
Q2	76.9	23.1	0	0	0	4.769	Excellent
Q3	84.6	15.4	0	0	0	4.846	Excellent
Q4	84.6	15.4	0	0	0	4.846	Excellent
Q5	84.6	15.4	0	0	0	4.846	Excellent
Q6	88.5	11.5	0	0	0	4.885	Excellent
Q7	100	0	0	0	0	5	Excellent



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Department of Mechanical Engineering

The highest score of 5 was given to the parameter "Current curriculum meets the present industry demands".

Followed by "Curriculum has paved a good foundation in understanding the basic engineering concepts", "Competency with your peers from other Institutions", "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" with a score of 4.923, 4.885 and 4.846 has been rated as Excellent.

It is clearly visible from the table that the parameters "Tools and Methodologies followed during practical sessions has enriched the required practical knowledge to serve in Industry" and "Course Contents of Curriculum fulfilled the specified Program Outcomes" obtained average 4.846, 4.769 respectively has been rated as Excellent.



FEEDBACK ANALYSIS OF EMPLOYERS ON B.Tech- Mechanical Engineering Curriculum in AY: 2020 – 21

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

- 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

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 (≥ 4); Very Good (≥ 3.5 & < 4); Good (≥ 3 & < 3.5); Moderate (> 2 & < 3) and Unsatisfactory (< 2)

Feedback from Employer 2020-21 (Academic Year) - UG – B. Tech (ME)

The result derived in terms of percentage of employer with common views, average score, and ratings is presented in Table 2.

Table 2: Analysis of feedback from Employer 2020–21

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	60	40	0	0	0	4.6	Excellent
Q2	40	60	0	0	0	4.4	Excellent
Q3	60	40	0	0	0	4.6	Excellent
Q4	80	20	0	0	0	4.8	Excellent
Q5	60	40	0	0	0	4.6	Excellent

The highest score of 4.8 was given to the parameters “Applicability of the tools and technologies described in the curriculum will be enough to practice in Industry” and has been rated as Excellent.

It is clearly visible from the table that the parameters “Course Contents of B.Tech Mechanical Engineering Curriculum is in tune with the Program Outcomes”, “Elective are in-line with the technology advancements in Modelling and Manufacturing Sectors” and “Problem Solving and



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Department of Mechanical Engineering

Soft Skills acquired by the students through the course contents will enable them to be placed in product and process industry” obtained average scores 4.6 and has been rated as Excellent.

The parameter “Relevance of the Course Contents in tune with the Industry Demands” obtained the scores of 4.4 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 B.Tech-Mechanical Engineering Curriculum in AY: 2020 – 21

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

- 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

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 (≥ 4); Very Good (≥ 3.5 & < 4); Good (≥ 3 & < 3.5); Moderate (> 2 & < 3) and Unsatisfactory (< 2)

Feedback from Faculty 2020-21 (Academic Year) - UG – B. Tech (ME)

The result derived in terms of percentage of Faculty with common views, average score, and ratings is presented in Table 3.

Table 3: Analysis of feedback from Faculty 2020–21

Parameter	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	85.7	14.3	0	0	0	4.857	Excellent
Q2	92.9	7.1	0	0	0	4.929	Excellent
Q3	82.1	17.9	0	0	0	4.821	Excellent
Q4	89.3	10.7	0	0	0	4.893	Excellent
Q5	85.7	14.3	0	0	0	4.857	Excellent
Q6	92.9	7.1	0	0	0	4.929	Excellent
Q7	85.7	10.7	3.6	0	0	4.821	Excellent
Q8	85.7	14.3	0	0	0	4.857	Excellent



The highest score of 4.929 was given to the parameter "Contents of the curriculum enhances the core competencies and employability skills" and "Curriculum providing opportunity towards self-learning to meet the expectations" and has been rated as Excellent.

It is clearly visible from the table that the parameters "Contact Hour Distribution among the various Course Components (LTP) is Satisfiable" and "Curriculum designed is in tune with program Vision and Mission", "Electives offered in the program makes the faculty to explore latest technologies" and "Number of theoretical courses and laboratory sessions sufficient to improve the technical skills of students" obtained average scores 4.893 and 4.857 respectively and has been rated as Excellent.

From the table that the parameters "Allocation of Credits to the Courses Satisfiable" and "Composition of Basic Sciences, Engineering, Humanities and Management Courses Satisfiable" obtained average scores 4.821 and has been rated as Excellent.



FEEDBACK ANALYSIS OF STUDENTS ON B.Tech-Mechanical Engineering Curriculum in AY: 2020 – 21

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 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

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 (≥ 4); Very Good (≥ 3.5 & < 4); Good (≥ 3 & < 3.5); Moderate (> 2 & < 3) and Unsatisfactory (< 2)

Feedback from Students 2020-21 (Academic Year) - UG – B. Tech (ME)

The result derived in terms of percentage of students with common views, average score, and ratings is presented in Table 5.

Table 5: Analysis of feedback from Students 2020–21

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	48.8	45.9	2.9	1.7	0.6	4.403	Excellent
Q2	47.1	44.8	6.4	1.2	0.6	4.369	Excellent
Q3	49.4	43.6	2.3	3.5	1.2	4.365	Excellent
Q4	54.1	39.5	4.1	0.6	1.7	4.437	Excellent
Q5	50	44.8	2.9	1.7	0.6	4.419	Excellent
Q6	54.7	38.4	4.1	2.3	0.6	4.446	Excellent
Q7	52.9	43	2.3	0.6	1.2	4.458	Excellent
Q8	50.6	43.6	3.5	1.7	0.6	4.419	Excellent



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It is clearly visible from the table that the parameters "Composition of Basic Sciences, Engineering, Humanities and Management Courses is a right mix and Satisfiable" and "Curriculum providing enable towards self-learning" obtained average scores 4.458 and 4.446 has been rated as Excellent.

Followed by "Contact Hour Distribution among the various Course Components (LTP) is Satisfiable" and "Electives have enabled the passion to learn new technologies in emerging and Interdisciplinary Areas" with a score of 4.437 and 4.419 has been rated as Excellent.

The parameter "Course Contents of Curriculum in tune with the Program Outcomes", "Course Contents designed and value added courses offered enriches Core Competencies" and "Courses offered in the curriculum serves the needs of both Mechanical Industries and IT sector" obtained the scores of 4.40, 4.369 and 4.367 has been rated as Excellent which will be considered and benefit the students.


Chairman, CDMC