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-Estd. u/s 3 of UGC Act 1956

Department of
Mechanical Engineering

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. D Satyanarayana, Professor	Member	
3.	Dr. G Suresh, Associate Professor	Member	
4.	Mr. N B Prakash T, 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. Students need to be work on real time problems faced by current industry and society
2. Special focus need to be given to slow learners
3. Concept of Modular course has been continued from previous regulations
4. Courses on current trends are to be offered
5. Awareness on machine maintenance should be given to the students
6. More emphasis on communication and technical terminologies
7. Activities related to lifelong learning are to be imparted
8. Add employability courses in curriculum
9. In-house training to be provided for facing competitive exams
10. Curriculum need to be enriched with current Industrial trends

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

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Annexure-I

FEEDBACK ANALYSIS OF ALUMNI on B.Tech-Mechanical Engineering 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 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 ($\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) - 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 2019–20

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	36.4	63.6	0	0	0	4.364	Excellent
Q2	36.4	60.6	3	0	0	4.334	Excellent
Q3	66.7	30.3	3	0	0	4.637	Excellent
Q4	42.4	54.5	3	0	0	4.39	Excellent
Q5	48.5	48.5	3	0	0	4.455	Excellent
Q6	24.2	54.5	21.2	0	0	4.026	Excellent
Q7	30.3	54.5	15.2	0	0	4.151	Excellent

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The highest score of 4.637 was given to the parameter "Curriculum imparted all the required Job Oriented Skills / prerequisite to pursue higher education".

Followed by "Tools and Methodologies followed during practical sessions has enriched the required practical knowledge to serve in Industry", "Electives of Curriculum served the technical advancements needed to serve in the industry" and "Curriculum has paved a good foundation in understanding the basic engineering concepts" with a score of 4.455, 4.39 and 4.364 has been rated as Excellent.

It is clearly visible from the table that the parameters "Course Contents of Curriculum fulfilled the specified Program Outcomes", "Current curriculum meets the present industry demands" and "Competency with your peers from other Institutions" obtained average 4.334, 4.151 and 4.026 respectively has been rated as Excellent.

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FEEDBACK ANALYSIS OF EMPLOYERS ON B.Tech-Mechanical Engineering Curriculum in AY: 2019 – 20

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 2019-20 (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 2019–20

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	0	88.9	11.1	0	0	3.889	Very Good
Q2	55.6	44.4	0	0	0	4.556	Excellent
Q3	88.9	0	11.1	0	0	4.778	Excellent
Q4	55.6	44.4	0	0	0	4.556	Excellent
Q5	55.6	44.4	0	0	0	4.556	Excellent

The highest score of 4.778 was given to the parameters "Elective are in-line with the technology advancements in Modelling and Manufacturing Sectors" and has been rated as Excellent.

It is clearly visible from the table that the parameters "Relevance of the Course Contents in tune with the Industry Demands" and "Applicability of the tools and technologies described in the curriculum will be enough to practice in Industry" and obtained average scores 4.556 and has been rated as Excellent.

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The parameter "Course Contents of B.Tech Mechanical Engineering Curriculum is in tune with the Program Outcomes" obtained the scores of 3.889 and has been rated as Very Good 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.

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FEEDBACK ANALYSIS OF FACULTY ON B.Tech-Mechanical Engineering Curriculum in AY: 2019 – 20

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 2019-20 (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 2019–20

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	92.9	0	7.1	0	0	4.858	Excellent
Q2	92.9	7.1	0	0	0	4.929	Excellent
Q3	3.6	96.4	0	0	0	4.036	Excellent
Q4	100	0	0	0	0	5	Excellent
Q5	0	100	0	0	0	4	Excellent
Q6	78.6	21.4	0	0	0	4.786	Excellent
Q7	100	0	0	0	0	5	Excellent
Q8	71.4	28.6	0	0	0	4.714	Excellent

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The highest score of 5 was given to the parameter "Contact Hour Distribution among the various Course Components (LTP) is Satisfiable" and "Composition of Basic Sciences, Engineering, Humanities and Management Courses Satisfiable and has been rated as Excellent.

It is clearly visible from the table that the parameters "Contents of the curriculum enhances the core competencies and employability skills" and "Curriculum designed is in tune with program Vision and Mission" obtained average scores 4.929 and 4.858 respectively and has been rated as Excellent.

From the table that the parameters "Curriculum providing opportunity towards self-learning to meet the expectations" and "Number of theoretical courses and laboratory sessions sufficient to improve the technical skills of students" obtained average scores 4.786 and 4.714 respectively and has been rated as Excellent. The parameters "Allocation of Credits to the Courses Satisfiable" and "Electives offered in the program makes the faculty to explore latest technologies" obtained average scores 4.036 and 4 respectively and has been rated as Excellent.

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FEEDBACK ANALYSIS OF PARENTS ON B.Tech-Mechanical Engineering 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 endeavors
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) - UG – B. Tech (ME)

The result derived in terms of percentage of Parent with common views, average score, and ratings is presented in Table 4.

Table 4: Analysis of feedback from Parent 2019–20

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	17.3	76	6.7	0	0	4.106	Excellent
Q2	18.7	74.7	2.7	4	0	4.084	Excellent
Q3	56	44	0	0	0	4.56	Excellent
Q4	25.3	65.3	6.7	2.7	0	4.132	Excellent
Q5	29.3	64	4	2.7	0	4.199	Excellent

The highest score of 4.56 was given to the parameter "Overall assessment of technical knowledge acquired by your ward who is pursuing his/her program in our University" is rated as Excellent. From the table "Satisfaction with the offered curriculum for your wards future endeavors" followed by "Curriculum offered is in tune with current Industry needs" with a score of 4.084, 4.199 respectively and has been rated as Excellent.

It is clearly visible from the table that the parameters "Your ward's competency with the students from other Institutes" and "Satisfaction of Academic and Emotional Progression of your ward" obtained average scores 4.132 and 4.106 respectively and has been rated as Excellent.

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FEEDBACK ANALYSIS OF STUDENTS ON B.Tech-Mechanical Engineering 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 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 ($\geq$4); Very Good ($\geq$3.5&<4); Good ($\geq$3&<3.5); Moderate (>2 &<3) and Unsatisfactory (<2)

Feedback from Students 2019-20 (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 2019–20

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	74.5	25.5	0	0	0	4.745	Excellent
Q2	66	32.6	0	0	1.4	4.618	Excellent
Q3	41.1	58.9	0	0	0	4.411	Excellent
Q4	27	72.3	0	0	0.7	4.249	Excellent
Q5	28.4	71.6	0	0	0	4.284	Excellent
Q6	71.6	28.4	0	0	0	4.716	Excellent
Q7	29.1	70.9	0	0	0	4.291	Excellent
Q8	31.2	68.8	0	0	0	4.312	Excellent

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It is clearly visible from the table that the parameters "Course Contents of Curriculum in tune with the Program Outcomes" and "Curriculum providing enable towards self-learning" obtained average scores 4.745 and 4.716 has been rated as Excellent.

Followed by "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" with a score of 4.618 and 4.411 has been rated as Excellent.

The parameter "no. of Laboratory sessions and Theory Courses have been sufficient to improve the technical skills" obtained the scores of 4.312 and has been rated as Excellent which will be considered and benefit the students.

Chairman,
CDMC