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Department of
Mechanical Engineering

08-06-2018

Constitution of Curriculum Design and Monitoring Committee

The Head of the Department is pleased to approve the following members for constituting the Curriculum Design and Monitoring Committee for B.Tech (Mechanical Engineering).

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

HoD, Mech

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Department of
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Minutes of CDMC Meeting

16-03-2019

The members of Curriculum Design and Monitoring Committee for B.Tech Mechanical Engineering program met on 16-03-2019 at AGF-04, '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, Assistant 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 2018-19.

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

1. Students requested to impart more in - depth topics relevant to vibration analysis with practical exposure
2. Students emphasized on training on much more analysis softwares
3. Parents suggested to implore more lab sessions on composite material fabrication and testing
4. Alumni stressed on much more focus to be paid on design core courses as per industrial requirements
5. Employers concerned about the knowledge pertained to failure criteria of materials
6. Employers suggested to in cultivate interdisciplinary skills in the students
7. Students need to be work on real time problems faced by current industry and society
8. Faculty suggested to imply courses related to 3D printing.
9. Faculty suggested feasibility of offering foreign language courses.

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Department of
Mechanical Engineering

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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Department of
Mechanical Engineering

Annexure-I
FEEDBACK ANALYSIS OF ALUMNI ON M. Tech-Machine Design Curriculum in AY: 2018 – 19

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

Feedback from Alumni 2018-19 (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 2018–19

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	66.7	33.3	0	0	0	4.667	Excellent
Q2	66.7	33.3	0	0	0	4.667	Excellent
Q3	100	0	0	0	0	5	Excellent
Q4	66.7	33.3	0	0	0	4.667	Excellent
Q5	0	66.7	33.3	0	0	3.667	Very Good
Q6	33.3	66.7	0	0	0	4.333	Excellent
Q7	33.3	66.7	0	0	0	4.333	Excellent

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Department of
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The highest score of 4.8 was given to the parameter "Curriculum imparted all the required Job Oriented Skills / prerequisite to pursue higher education".

Followed by "Curriculum has paved a good foundation in understanding the concepts", "Course Contents of Curriculum fulfilled the specified Program Outcomes" and "Electives of Curriculum served the technical advancements needed to serve in the industry" with a score of 4.667 has been rated as Excellent.

It is clearly visible from the table that the parameter, "Competency with your peers from other Institutions" "Current curriculum meets the present industry demands" and "Tools and Methodologies followed during practical sessions has enriched the required practical knowledge to serve in Industry" obtained average 4.33,4.33 and 3.667 has been rated as Excellent and Very Good respectively.

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Department of
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FEEDBACK ANALYSIS OF EMPLOYERS ON M. Tech-Machine Design Curriculum in AY: 2018 – 19

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

Feedback from Employer 2018-19 (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 2018–19

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	50	50	0	0	0	4.5	Excellent
Q2	50	50	0	0	0	4.5	Excellent
Q3	50	50	0	0	0	4.5	Excellent
Q4	0	100	0	0	0	4	Excellent

The highest score of 4.5 was given to the parameter "Course Contents of M.Tech Machine Design Curriculum is in tune with the Program Outcomes" 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", "Elective are in-line with the technology advancements in Modelling and Design Sectors" obtained scores 4.5 and has been rated as Excellent.

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Department of
Mechanical Engineering

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.

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Department of
Mechanical Engineering

FEEDBACK ANALYSIS OF FACULTY ON M. Tech-Machine Design Curriculum in AY: 2018 – 19

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

Feedback from Faculty 2018-19 (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 2018–19

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	100	0	0	0	0	4.727	Excellent
Q2	100	0	0	0	0	5	Excellent
Q3	18.2	81.8	0	0	0	4.182	Excellent
Q4	100	0	0	0	0	5	Excellent
Q5	0	100	0	0	0	4	Excellent
Q6	0	9.1	90.9	0	0	3.636	Very Good
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 parameters, "Course Contents designed offered enriches Core Competencies", "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 followed by parameter "Course Contents of Curriculum in tune with the Program Outcomes" with an average score of 4.727 rated as excellent.

It is clearly visible from the table that 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 average scores 4.182 and 4 respectively and has been rated as Excellent.

The parameters "Curriculum providing enable towards self-learning" the score is 3.636 and has been rated as Very Good.

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Department of
Mechanical Engineering

FEEDBACK ANALYSIS OF PARENTS ON M. Tech-Machine Design Curriculum in AY: 2018 – 19

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

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

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

Table 1: Analysis of feedback from Parent 2018–19

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	41.7	41.7	0	0	0	4.583	Very Good
Q2	50	33.3	16.7	0	0	4.667	Excellent
Q3	41.7	50	8.3	0	0	4.667	Excellent
Q4	33.3	41.7	25	0	0	4.583	Excellent
Q5	33.3	50	16.7	0	0	4.344	Excellent

The highest score of 4.667 was given to the parameters "Satisfaction with the offered curriculum for your wards future endeavours" and "Overall assessment of technical knowledge acquired by your ward who is pursuing his/her program in our University" are rated as Excellent followed by "Your ward's competency with the students from other Institutes" and "Satisfaction of Academic and Emotional Progression of your ward" with an average score of 4.583 rated as excellent. "Curriculum offered is in tune with current Industry needs" with a score of 4.344 and has been rated as Excellent.

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Department of
Mechanical Engineering

FEEDBACK ANALYSIS OF STUDENTS ON M. Tech-Machine Design Curriculum in AY: 2018 – 19

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 (≥4); Very Good ($\geq3.5\&<4$); Good ($\geq3\&<3.5$); 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 students with common views, average score, and ratings is presented in Table 1.

Table 1: Analysis of feedback from Student 2018–19

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	58.8	35.3	5.9	0	0	4.529	Excellent
Q2	58.8	41.2	0	0	0	4.588	Excellent
Q3	47.1	52.9	0	0	0	4.471	Excellent
Q4	52.9	35.3	11.8	0	0	4.411	Excellent
Q5	70.6	29.4	0	0	0	4.706	Excellent
Q6	76.5	23.5	0	0	0	4.765	Excellent
Q7	70.6	29.4	0	0	0	4.589	Excellent

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Department of
Mechanical Engineering

The highest score of 4.765 was given to the parameter "Curriculum providing enable towards self-learning" and has been rated as Excellent.

It is clearly visible from the table that the three parameters "Electives have enabled the passion to learn new technologies in emerging and Interdisciplinary Areas", "No. of Laboratory sessions and Theory Courses have been sufficient to improve the technical skills" obtained average scores 4.706 and 4.589 respectively and has been rated as Excellent.

The parameter "Course Contents designed offered enriches Core Competencies." obtained the scores of 4.588 and has been rated as Excellent which will be considered and benefit the students towards the Core Industry.

Chairman, CDMC