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Department of
Mechanical Engineering

Minutes of CDMC Meeting

24-03-2018

The members of Curriculum Design and Monitoring Committee for B.Tech Mechanical Engineering program met on 24-03-2018 at AGF-04, 'U' block, of VFSTR. The following members attended the meeting.

S.No	Members	Designation	Signatures
1.	Dr. M. Ramakrishna, Professor & HoD	Chairman	
2.	Mr. D Satyanarayana, Assoc. Professor	Member	
3.	Mr. G Suresh, Assistant Professor	Member	
4.	Mr. Mihir Barman, 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 2017-18.

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

1. As per suggestions received from Employers R17 Curriculum is designed by amalgamating theory courses with laboratory sessions.
2. In R17 curriculum keeping in view the valuable feedback from employer's mandate course on employability has been offered.
3. To enhance the research-oriented skills a course on research methodology has been offered as mandate course to the students.
4. Core courses offered in R14 Curriculum are retained as it is as they are on par with industrial requirements that can be understood from feedback analysis.
5. Elective courses like Reliability Engineering, Nanotechnology, Condition Monitoring and fault diagnosis of machinery etc. are retained as it is.
6. As per request from the students and parents more emphasis is given vibration course and is integrated with lab component.

Detailed feedback analysis report is enclosed as Annexure-I

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

Chairman, CDMC

Annexure-I

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FEEDBACK ANALYSIS OF ALUMNI ON M.Tech-Machine Design Curriculum in AY: 2017 – 18

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 2017-18 (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 2017–18

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	0	100	0	0	0	4	Excellent
Q2	50	50	0	0	0	4.5	Excellent
Q3	50	25	25	0	0	4.25	Excellent
Q4	75	25	0	0	0	4.75	Excellent
Q5	75	25	0	0	0	4.75	Excellent
Q6	50	50	0	0	0	4.5	Excellent
Q7	50	0	50	0	0	4.25	Excellent

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The highest score of 4.75 was given to the parameter "Electives of Curriculum served the technical advancements needed to serve in the industry" and "Tools and Methodologies followed during practical sessions has enriched the required practical knowledge to serve in Industry".

Followed by "Course Contents of Curriculum fulfilled the specified Program Outcomes", "Competency with your peers from other Institutions" and "Curriculum imparted all the required Job Oriented Skills / prerequisite to pursue higher education" with a score of 4.5,4.5 and 4.25 has been rated as Excellent respectively.

It is clearly visible from the table that the parameter, "Curriculum has paved a good foundation in understanding the basic engineering concepts" and "Current curriculum meets the present industry demands" obtained average 4.25 has been rated as Excellent for both questions.

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FEEDBACK ANALYSIS OF EMPLOYER ON M. Tech-Machine Design Curriculum in AY: 2017 – 18

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 2017-18 (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 2017–18

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	100	0	0	0	0	5	Excellent
Q4	50	50	0	0	0	4.5	Excellent

The highest score of 5 was given to the parameters "Elective are in-line with the technology advancements in Modelling and Design Sectors" has been rated Excellent

It is clearly visible from the table that the parameter "Course Contents of M.Tech Machine Design Curriculum is in tune with the Program Outcomes" and "Relevance of the Course Contents in tune with the Industry Demands" obtained average score 4.5 and has been rated as Excellent.

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The parameters "Applicability of the tools and technologies described in the curriculum will be enough to practice in Industry" obtained the scores of 4.5 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: 2017 – 18

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 2017-18 (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 2017–18

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	100	0	0	0	0	3.222	Good
Q2	100	0	0	0	0	5	Excellent
Q3	11.1	88.9	0	0	0	4.111	Excellent
Q4	100	0	0	0	0	5	Excellent
Q5	0	100	0	0	0	4	Excellent
Q6	0	11.1	88.9	0	0	3.667	Very Good
Q7	100	0	0	0	0	5	Excellent

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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.

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 4.111 and 4 respectively and has been rated as Excellent.

The parameters "Course Contents of Curriculum in tune with the Program Outcomes" and "Curriculum providing enable towards self-learning" the score is 3.222 and 3.667 respectively and has been rated as Good and Very Good.

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FEEDBACK ANALYSIS OF PARENTS ON M. Tech-Machine Design Curriculum in AY: 2017 – 18

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 2017-18 (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 2017–18

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	62.5	37.5	0	0	0	4.625	Excellent
Q2	50	50	0	0	0	4.5	Excellent
Q3	37.5	50	12.5	0	0	4.25	Excellent
Q4	25	62.5	12.5	0	0	4.125	Excellent
Q5	50	50	0	0	0	4.5	Excellent

The highest score of 4.625 was given to the parameter "Satisfaction of Academic and Emotional Progression of your ward" is rated as Excellent. From the table "Satisfaction with the offered curriculum for your wards future endeavours" and "Curriculum offered is in tune with current Industry needs" with a score of 4.5 and 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 "Your

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ward's competency with the students from other Institutes" obtained average scores 4.25 and 4.125 respectively and has been rated as Excellent.

FEEDBACK ANALYSIS OF STUDENTS ON M. Tech-Machine Design Curriculum in AY: 2017 – 18

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 2017-18 (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 Students 2017–18

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	50	40	10	0	0	4.4	Excellent
Q2	60	40	10	0	0	4.5	Excellent
Q3	50	45	0	0	0	4.5	Excellent
Q4	60	40	10	0	0	4.5	Excellent
Q5	55	45	0	0	0	4.55	Excellent
Q6	70	30	0	0	0	4.7	Excellent
Q7	55	45	0	0	0	4.5	Excellent

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The highest score of 4.7 was given to the parameter "Curriculum providing enable towards self-learning" followed by "Electives have enabled the passion to learn new technologies in emerging and Interdisciplinary Areas" with a score of 4.55 and has been rated as excellent.

It is clearly visible from the table that the parameters, "Course Contents designed offered enriches Core Competencies", "Courses offered in the curriculum serves the needs of Mechanical Industries", "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" obtained an average score 4.5 and has been rated as excellent followed by with an average score of 4.4 to the parameter "Course Contents of Curriculum in tune with the Program Outcomes" rated as excellent.

Chairman, CDMC