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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. | Dr. D Satyanarayana, Professor | Member | |
| 3. | Mr. G Suresh, Assistant 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 2017-18.

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

1. Knowledge on wear and lubrication of materials is to be needed
2. More emphasis on communication and technical terminologies
3. Analysis softwares to be offered exclusively without combining modelling aspects
4. Recent trends on manufacturing technologies is to be emphasized
5. In-depth knowledge of casting, welding and machining has to be imparted
6. Awareness on material property evaluation to be provided to improve the material characterization analysis
7. Special focus need to be given to fast learners
8. Students should be cautious about their physical fitness
9. Special focus need to be given to fast learners
10. Students need to be work on real time problems faced by current industry and society

Detailed feedback analysis report is enclosed as Annexure-I

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.Department of
Mechanical Engineering

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: 2017 – 18

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 2017-18 (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 2017–18**

| Parameters | Strongly Agree | Agree | Moderate | Disagree | Strongly Disagree | Avg. Rating | Grade |
|---|---|---|---|---|---|---|---|
| Q1 | 61.5 | 25.6 | 12.8 | 0 | 0 | 4.483 | Excellent |
| Q2 | 66.7 | 28.2 | 0 | 5.1 | 0 | 4.565 | Excellent |
| Q3 | 84.6 | 15.4 | 0 | 0 | 0 | 4.846 | Excellent |
| Q4 | 84.6 | 15.4 | 0 | 0 | 0 | 4.846 | Excellent |
| Q5 | 59 | 23.1 | 15.4 | 2.6 | 0 | 4.388 | Excellent |
| Q6 | 89.7 | 10.3 | 0 | 0 | 0 | 4.897 | Excellent |
| Q7 | 84.6 | 5.1 | 10.3 | 0 | 0 | 4.743 | Excellent |

The highest score of 4.897 was given to the parameter "Competency with your peers from other Institutions".

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Department of
Mechanical Engineering

Followed by "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 4.846 has been rated as Excellent.

It is clearly visible from the table that the parameters "Current curriculum meets the present industry demands", "Course Contents of Curriculum fulfilled the specified Program Outcomes", "Curriculum has paved a good foundation in understanding the basic engineering concepts" and "Tools and Methodologies followed during practical sessions has enriched the required practical knowledge to serve in Industry" obtained average 4.743, 4.565, 4.483 and 4.388 respectively has been rated as Excellent.

# FEEDBACK ANALYSIS OF EMPLOYERS ON B.Tech-Mechanical Engineering Curriculum in AY: 2017 – 18

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

**Feedback from Employer 2017-18 (Academic Year) - 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 2017–18**

| Parameters | Strongly Agree | Agree | Moderate | Disagree | Strongly Disagree | Avg. Rating | Grade |
|---|---|---|---|---|---|---|---|
| Q1 | 40 | 30 | 30 | 0 | 0 | 4.1 | Excellent |
| Q2 | 40 | 50 | 10 | 0 | 0 | 4.3 | Excellent |
| Q3 | 70 | 20 | 10 | 0 | 0 | 4.6 | Excellent |
| Q4 | 70 | 30 | 0 | 0 | 0 | 4.7 | Excellent |
| Q5 | 40 | 30 | 10 | 20 | 0 | 3.9 | Very Good |

The highest score of 4.7 was given to the parameter "Applicability of the tools and technologies described in the curriculum will be enough to practice in Industry" followed by "Elective are in-line with the technology advancements in Modelling and Manufacturing Sectors" and obtained average score of 4.6 has been rated as Excellent.

"Course Contents of B.Tech Mechanical Engineering Curriculum is in tune with the Program Outcomes" and "Relevance of the Course Contents in tune with the Industry Demands" and with a score of 4.1 and 4.3 respectively has been rated as Excellent.

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Foundation for Science, Technology & Research
**UNIVERSITY**
(Est'd u/s 3 of UGC Act of 1956)

Department of
Mechanical Engineering

The parameter "Problem Solving and Soft Skills acquired by the students through the course contents will enable them to be placed in product and process industry" obtained the scores of 3.9 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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Foundation for Science, Technology & Research
**UNIVERSITY**
(Estd u/s 3 of UGC Act of 1956)

Department of
Mechanical Engineering

# FEEDBACK ANALYSIS OF FACULTY ON B.Tech-Mechanical Engineering Curriculum in AY: 2017 – 18

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

**Feedback from Faculty 2017-18 (Academic Year) - 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 2017–18**

| Parameters | Strongly Agree | Agree | Moderate | Disagree | Strongly Disagree | Avg. Rating | Grade |
|---|---|---|---|---|---|---|---|
| Q1 | 93.9 | 0 | 6.1 | 0 | 0 | 4.878 | Excellent |
| Q2 | 97 | 3 | 0 | 0 | 0 | 4.97 | Excellent |
| Q3 | 6.1 | 93.9 | 0 | 0 | 0 | 4.061 | Excellent |
| Q4 | 100 | 0 | 0 | 0 | 0 | 5 | Excellent |
| Q5 | 0 | 100 | 0 | 0 | 0 | 4 | Excellent |
| Q6 | 75.8 | 24.2 | 0 | 0 | 0 | 4.758 | Excellent |
| Q7 | 100 | 0 | 0 | 0 | 0 | 5 | Excellent |
| Q8 | 72.7 | 27.3 | 0 | 0 | 0 | 4.727 | Excellent |

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 "Curriculum designed is in tune with program Vision and Mission" and "Contents of the curriculum enhances the core competencies and employability skills" obtained average scores 4.878 and 4.908 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 4.767 and 4.712 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 4.068 and 4 respectively and has been rated as Excellent.

# FEEDBACK ANALYSIS OF PARENTS ON B.Tech-Mechanical Engineering 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 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 2017-18 (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-1.

**Table 1: Analysis of feedback from Parent 2017–18**

| Parameters | Strongly Agree | Agree | Moderate | Disagree | Strongly Disagree | Avg. Rating | Grade |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Q1 | 28.7 | 71.3 | 0 | 0 | 0 | 4.287 | Excellent |
| Q2 | 65.9 | 34.1 | 0 | 0 | 0 | 4.659 | Excellent |
| Q3 | 27.1 | 72.9 | 0 | 0 | 0 | 4.271 | Excellent |
| Q4 | 40.3 | 59.7 | 0 | 0 | 0 | 4.403 | Excellent |
| Q5 | 38 | 62 | 0 | 0 | 0 | 4.38 | Excellent |

The highest score of 4.659 was given to the parameter "Satisfaction with the offered curriculum for your wards future endeavors" rated as Excellent. From the table "Overall assessment of technical knowledge acquired by your ward who is pursuing his/her program in our University" followed by "Your ward's competency with the students from other Institutes" with a score of 4.271, 4.403 respectively and has been rated as Excellent.

It is clearly visible from the table that the parameters "Curriculum offered is in tune with current Industry needs" and "Satisfaction of Academic and Emotional Progression of your ward" obtained average scores 4.38 and 4.287 respectively and has been rated as Excellent.

# FEEDBACK ANALYSIS OF STUDENTS ON B.Tech-Mechanical Engineering 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 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 2017-18 (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 2017–18**

| Parameters | Strongly Agree | Agree | Moderate | Disagree | Strongly Disagree | Avg. Rating | Grade |
|---|---|---|---|---|---|---|---|
| Q1 | 69.2 | 30.8 | 0 | 0 | 0 | 4.692 | Excellent |
| Q2 | 96.2 | 2.8 | 0 | 0 | 1 | 4.932 | Excellent |
| Q3 | 35.6 | 64.4 | 0 | 0 | 0 | 4.356 | Excellent |
| Q4 | 5.2 | 93.8 | 0 | 0 | 1 | 4.022 | Excellent |
| Q5 | 2.1 | 97.9 | 0 | 0 | 0 | 4.021 | Excellent |
| Q6 | 89.6 | 10.4 | 0 | 0 | 0 | 4.896 | Excellent |
| Q7 | 8.3 | 91.3 | 0 | 0 | 0.3 | 4.07 | Excellent |
| Q8 | 9.7 | 90.3 | 0 | 0 | 0 | 4.097 | Excellent |

VIGNAN'S
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Department of
Mechanical Engineering

The highest score of 4.932 was given to the parameter "Course Contents designed and value added courses offered enriches Core Competencies".

Followed by "Curriculum providing enable towards self-learning" and "Course Contents of Curriculum in tune with the Program Outcomes" with a score of 4.896 and 4.692 has been rated as Excellent.

It is clearly visible from the table that the parameters "Courses offered in the curriculum serves the needs of both Mechanical Industries and IT sector" and "No. of Laboratory sessions and Theory Courses have been sufficient to improve the technical skills" obtained average score of 4.356 and 4.097 respectively has been rated as Excellent.

From the table "Composition of Basic Sciences, Engineering, Humanities and Management Courses is a right mix and satisfiable", "Electives have enabled the passion to learn new technologies in emerging and Interdisciplinary Areas" and "Contact Hour Distribution among the various Course Components (LTP) is Satisfiable" obtained scores of 4.07, 4.021 and 4.022 respectively has been rated Excellent.

**Chairman,**
**CDMC**