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[Estd u/s 3 of UGC Act of 1956]

Department of
Mechanical Engineering

Curriculum Design & Monitoring Committee

Curriculum Design & Monitoring Committee of the programme collects and analyses the feedback of stakeholder's on curriculum

Composition:

The composition of the Curriculum Design & Monitoring Committee (CDMC) is as follows:

Head of the Department	-	Chairman
2 to 3 Senior Faculties	-	Members

Activities:

The committee analyses the feedback from the stakeholder's and those inputs are forwarded to BoS for discussion.

Outcomes:

These measures ensure the dynamic involvement of the stakeholder's in the curriculum design and its fortification at multiple stages.

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03-07-2015

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. M Ramakrishna, Associate Professor & HoD	Chairman
2.	Mr. D Satyanarayana, Associate Professor	Member
3.	Mr. G Suresh, Assistant Professor	Member
4.	Mr. N B Prakash T, Assistant Professor	Member

HOD, MECH

Minutes of CDMC Meeting

19-03-2016

The members of Curriculum Design and Monitoring Committee for B.Tech Mechanical Engineering program met on 19-03-2016 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, Associate 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 2015-16.

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

1. Students should correlate the theoretical knowledge and practical applications for which theory courses need to be integrated with laboratory courses
2. More modelling softwares have to be taught apart from course curriculum
3. More choices should be offered for choosing electives
4. Burden on students can be reduced by reducing the credits
5. To have prior knowledge CFD should be learned before appearing internship in industries.
6. Students have expected more courses on advanced manufacturing processes.
7. Students have expressed to include some more knowledge on material science & metallurgy.
8. Students have expected more courses on material science specialization subjects.
9. Case study based learning need to be implemented.
10. The students have requested to introduce Non-Destructive testing in their curriculum which is useful for industrial applications.
11. Students have expected more courses on open-source tools such as CATIA, SOLID WORKS for design and analysis.
12. Skills are very much lagging in students for which skill components need to be strengthened by adding activities and skill to majority of the courses

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13. Life skills such as dance, music, foreign language can be incorporated
14. Employability skills need to be enhanced by introducing courses related to employable orientation
15. Students need to be industry ready, courses need to be introduced which should exclusively dealt by Industry personnel
16. Outcome based learning can be continued as per the present regulations
17. Internship should be continued

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 1

FEEDBACK ANALYSIS OF ALUMNI ON B.Tech-Mechanical Engineering Curriculum in AY: 2015 – 16

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 Students 2015-16 (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 1.

Table 1: Analysis of feedback from Alumni 2015–16

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	63.3	30	6.7	0	0	4.566	Excellent
Q2	73.3	23.3	0	3.3	0	4.663	Excellent
Q3	83.3	16.7	0	0	0	4.833	Excellent
Q4	83.3	16.7	0	0	0	4.833	Excellent
Q5	63.3	30	6.7	0	0	4.566	Excellent
Q6	86.7	13.3	0	0	0	4.867	Excellent
Q7	83.3	3.3	13.3	0	0	4.696	Excellent

The highest score of 4.867 was given to the parameter "Competency with your peers from other Institutions" has been rated Excellent followed by "Curriculum imparted all the required Job Oriented Skills / prerequisite to pursue higher education" and "Electives of Curriculum served

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the technical advancements needed to serve in the industry" with a score of 4.833 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 scores 4.696, 4.663,4.566 and 4.566 respectively and has been rated as Excellent.

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FEEDBACK ANALYSIS OF EMPLOYERS ON B.Tech-Mechanical Engineering Curriculum in AY: 2015 – 16

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

Feedback from Employer 2015-16 (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 2015–16

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	0	100	0	0	0	4	Excellent
Q2	44.4	55.6	0	0	0	4.444	Excellent
Q3	44.4	33.3	22.2	0	0	4.218	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 4.556 was given to the parameter "Applicability of the tools and technologies described in the curriculum will be enough to practice in Industry" and "Problem Solving and Soft Skills acquired by the students through the course contents will enable them to be placed in product and process industry" followed by "Relevance of the Course Contents in tune with the Industry Demands" with a score of 4.444 and has been rated as Excellent.

It is clearly visible from the table that the parameters "Elective are in-line with the technology advancements in Modelling and Manufacturing Sectors" and "Course Contents of B.Tech Mechanical Engineering Curriculum is in tune with the Program Outcomes" obtained scores of 4.218 and 4 respectively and has been rated as Excellent.

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: 2015 – 16

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

Feedback from Faculty 2015-16 (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 2015–16

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	95.9	1.4	2.7	0	0	4.932	Excellent
Q2	93.2	5.5	0	1.4	0	4.908	Excellent
Q3	6.8	93.2	0	0	0	4.068	Excellent
Q4	100	0	0	0	0	5	Excellent
Q5	0	100	0	0	0	4	Excellent
Q6	76.7	23.3	0	0	0	4.767	Excellent
Q7	100	0	0	0	0	5	Excellent
Q8	71.2	28.8	0	0	0	4.712	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.

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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 4.932 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: 2015 – 16

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

Feedback from Parent 2015-16 (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 2015–16

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	55.8	41.7	2.5	0	0	4.533	Excellent
Q2	52.1	42.3	5.5	0	0	4.462	Excellent
Q3	54	40.5	5.5	0	0	4.485	Excellent
Q4	50.9	43.6	5.5	0	0	4.454	Excellent
Q5	52.8	39.9	7.4	0	0	4.458	Excellent

The highest score of 4.533 was given to the parameter "Satisfaction of Academic and Emotional Progression of your ward" and "Overall assessment of technical knowledge acquired by your ward who is pursuing his/her program in our University" followed by "Satisfaction with the offered curriculum for your wards future endeavors" with a score of 4.485 and 4.462 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 "Your ward's competency with the students from other Institutes" obtained average scores 4.528 and 4.454 respectively and has been rated as Excellent.

FEEDBACK ANALYSIS OF STUDENTS ON B.Tech Mechanical Engineering Curriculum in AY: 2015 – 16

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

Feedback from Students 2015-16 (Academic Year) - UG – B. Tech (ME)

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

Table 5: Analysis of feedback from Students 2015–16

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	74.4	25.6	0	0	0	4.744	Excellent
Q2	82.5	17.5	0	0	0	4.805	Excellent
Q3	45.7	54.1	0	0	0	4.459	Excellent
Q4	36.1	63.9	0	0	0	4.361	Excellent
Q5	26.3	73.7	0	0	0	4.263	Excellent
Q6	85.2	14.6	0	0	0	4.844	Excellent
Q7	30.1	69.6	0	0	0.2	4.291	Excellent
Q8	30.1	69.9	0	0	0	4.301	Excellent

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The highest score of 4.844 was given to the parameter "Curriculum providing enable towards self-learning" has been rated as Excellent.

Followed by "Course Contents designed and value added courses offered enriches Core Competencies, Course Contents of Curriculum in tune with the Program Outcomes" with a score of 4.805, 4.744 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 both Mechanical Industries and IT sector" and "Contact Hour Distribution among the various Course Components (LTP) is Satisfiable" obtained average scores 4.459 and 4.361 respectively and has been rated as Excellent followed by "No. of Laboratory sessions and Theory Courses have been sufficient to improve the technical skills", Composition of Basic Sciences, Engineering, Humanities and Management Courses is a right mix and satisfiable" and "Electives have enabled the passion to learn new technologies in emerging and Interdisciplinary Areas" with scores of 4.301, 4.291, 4.263 has been rated as Excellent.

Chairman, CDMC