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(Estd u/s 3 of UGC Act of 1956)

# Department of Electrical and Electronics Engineering

Date: 18-03-2017

## Curriculum Design and Monitoring Committee

## Minutes of meeting

Curriculum Design and Monitoring Committee meeting for B.Tech program is conducted on 16-03-2017 in HoD Chamber at 10:00 AM. The following members were attended the meeting.

| S.No | Members | Designation | Signature |
|---|---|---|---|
| 1 | Dr. G. Srinivasa Rao<br>Professor& HoD | Chairman | |
| 2 | Mr. P.V.S.Sobhan<br>Assoc. Professor | Member | |
| 3 | Mr. M. SubbaRao<br>Asst. Professor | Member | |

Chairman-CDMC, presented feedback analysis to the committee.

a. Employers suggested the following,
   1. Motivate the students towards research based on current trends.
   2. Project oriented curriculum gives hands on experience.
b. Alumni suggested the following
   1. Advanced courses in core engineering
   2. More emphasis on simulation/software based experiments.
c. Faculty suggested the following
   1. Credits should be given for NPTEL certification courses.
   2. Branch specific physics, mathematics, chemistry should be incorporate in the curriculum instead of common contents to all the branches.
d. Parents suggested the following
   1. Communications skills need to be improved
   2. Concepts suitable to core and government sector should be incorporated in the curriculum.
e. Students suggested the following
   1. More weightage for projects
   2. Regular workshops need to be conducted.

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 Electrical and Electronics Engineering

## Annexure -I

### Feedback from Students 2016-17 (Academic Year) - UG – B. Tech (EEE)

Feedback has been received from the students on the following nine parameters:

Q1. Course Contents of Curriculum are in tune with the Program Outcomes.

Q2. Course Contents are designed to enable Problem Solving Skills and Core competencies

Q3. Courses placed in the curriculum serves the needs of both advanced and slow learners.

Q4. Contact Hour Distribution among the various Course Components (LTP) is satisfiable.

Q5. The electives offered in relation to the Technological advancements in Electrical and allied fields.

Q6. The design of courses in the Curriculum is considered the extra learning or self learning.

Q7. Composition of Basic Sciences, Engineering, Humanities and Management Courses is a right mix and satisfiable.

Q8. Laboratory sessions are sufficient to improve the technical skills of students.

Q9. Inclusion of Minor Project/ Mini Projects improved the technical competency and leadership skills among the 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 categorizationis carried based on Excellent (≥4); Very Good (≥3.5&<4); Good (≥3&<3.5); Moderate (>2 &<3) and Unsatisfactory (<2)

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

Table 1: Analysis of feedback from students 2016–17

| Parameters | Rating 5 | Rating 4 | Rating 3 | Rating 2 | Rating 1 | Average Score | Rating |
|---|---|---|---|---|---|---|---|
| **Q1** | 11.2 | 86 | 2.8 | 0 | 0 | 4.084 | Excellent |
| **Q2** | 12.1 | 86 | 1.9 | 0 | 0 | 4.102 | Excellent |
| **Q3** | 8.9 | 91.1 | 0 | 0 | 0 | 4.089 | Excellent |
| **Q4** | 9.8 | 88.8 | 1.4 | 0 | 0 | 4.084 | Excellent |
| **Q5** | 10.7 | 86.9 | 2.3 | 0 | 0 | 4.08 | Excellent |
| **Q6** | 14.5 | 82.2 | 3.3 | 0 | 0 | 4.112 | Excellent |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Q7** | 13.1 | 83.2 | 3.7 | 0 | 0 | 4.094 | Excellent |
| **Q8** | 2.8 | 95.3 | 1.9 | 0 | 0 | 4.009 | Excellent |
| **Q9** | 4.2 | 86.4 | 9.3 | 0 | 0 | 3.945 | Very Good |

The highest score of 4.112 was given to the parameter "The design of courses in the Curriculum is considered the extra learning or self learning" followed by "Course Contents are designed to enable Problem Solving Skills and Core competencies" with a score of 4.102 and has been rated as Excellent.

It is clearly visible from the table that the parameters "Composition of Basic Sciences, Engineering, Humanities and Management Courses is a right mix and satisfiable" and "Courses placed in the curriculum serves the needs of both advanced and slow learners" obtained average scores 4.094 and 4.084 respectively and has been rated as Excellent.

The parameters "Course Contents of Curriculum are in tune with the Program Outcomes" and "Course Contents are designed to enable Problem Solving Skills and Core competencies" obtained the scores of 4.084 and 4.08 respectively and has been rated as Excellent which clearly reflects the benefit towards the student expectations.

Average scores of 4.009 and 3.945 were obtained by the parameters "Laboratory sessions are sufficient to improve the technical skills of students"; and "Inclusion of Minor Project/ Mini Projects improved the technical competency and leadership skills among the students".

The feedback analysis reveals that they are well satisfied with the curriculum development and revision. Laboratory sessions help to improve the students technical skills and the courses placed in the curriculum supports both the advanced learners as well as slow learners.

**Feedback from Parents 2016-17 (Academic Year) - UG – B. Tech (EEE)**

Feedback has been received from the parents on the following five parameters:

Q1. Your ward is sensitized towards issues like gender equality, environment and sustainability, ethics and values etc., through relevant courses in the curriculum

Q2. The academic flexibility embedded in the curriculum provides opportunities to students to pursue their interest by choosing from a vast number of pathways / electives from own area/specialization as well as from other areas.

Q3. Competency of your ward is on par with the students from other Universities/Institutes.

Q4. The curriculum has been designed to make your ward industry ready by imparting analytical and reasoning, language and soft skills in addition to technical competencies, as desired by the electrical and allied industries.

Q5. Course Curriculum is of the global standard and is in tune with the needs of electrical and allied industries.

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)

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

**Table 1: Analysis of feedback from parents 2016–17**

| Parameters | Rating 5 | Rating 4 | Rating 3 | Rating 2 | Rating 1 | Average Score | Rating |
|---|---|---|---|---|---|---|---|
| Q1 | 40 | 40 | 20 | 0 | 0 | 4.2 | Excellent |
| Q2 | 20 | 50 | 30 | 0 | 0 | 3.9 | Very Good |
| Q3 | 20 | 50 | 30 | 0 | 0 | 3.9 | Very Good |
| Q4 | 50 | 20 | 30 | 0 | 0 | 4.2 | Excellent |
| Q5 | 40 | 40 | 20 | 0 | 0 | 4.2 | Excellent |

The highest score of 4.2 was given to the parameters "Your ward is sensitized towards issues like gender equality, environment and sustainability, ethics and values etc., through relevant courses in the curriculum" followed by "Course Curriculum is of the global standard and is in tune with the needs of electrical and allied industries" and "The curriculum has been designed to make your ward industry ready by imparting analytical and reasoning, language and soft skills in addition to technical competencies, as desired by the electrical and allied industries" has been rated as Excellent.

It is clearly visible from the table that the parameters "The academic flexibility embedded in the curriculum provides opportunities to students to pursue their interest by choosing from a vast number of pathways / electives from own area/specialization as well as from other areas" and "Competency of your ward is on par with the students from other Universities/Institutes" obtained average score with 3.9 and has been rated as very good..

The feedback analysis reports that from the parents clearly depicts their satisfaction towards the curricular and non-curricular activities rendered by the University. From the analysis it is evident that the parents believe that their wards develop good soft skills and ethical values during their course of study.

**Feedback from Faculty 2016-17 (Academic Year) - UG – B. Tech (EEE)**

Feedback has been received from the Faculty on the following nine parameters:

Q1. Course Contents of Curriculum in tune with the Program Outcomes.

Q2. The depth of the course content is adequate to have significant learning outcomes.

Q3. Curriculum is sufficient to bridge the gap between industry standards /current global scenarios and academics.

Q4. The practical's enable to develop experimental, design, problem solving and analysis skills of the students.

Q5. The timely coverage of syllabus is possible in the mentioned number of hours.

Q6. The Curriculum providing opportunity towards self-learning to realize the expectations.

Q7. Rate the capability of the curriculum for improving ethical values in students.

Q8. The number of theoretical courses and laboratory sessions sufficient to improve the technical skills of students.

Q9. Electives enable the passion to learn new technologies in emerging area

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 categorizationis carried based on Excellent (≥4); Very Good (≥3.5&<4); Good (≥3&<3.5); Moderate (>2 &<3) and Unsatisfactory (<2)

The result derived in terms of percentage of faculty with common views, average score, and ratings is presented in Table 1.

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**Table 1: Analysis of feedback from faculty 2016 – 17**

| Parameters | Rating 5 | Rating 4 | Rating 3 | Rating 2 | Rating 1 | Average Score | Rating |
|---|---|---|---|---|---|---|---|
| Q1 | 43.8 | 50 | 6.3 | 0 | 0 | 4.379 | Excellent |
| Q2 | 56.3 | 43.8 | 0 | 0 | 0 | 4.567 | Excellent |
| Q3 | 50 | 50 | 0 | 0 | 0 | 4.5 | Excellent |
| Q4 | 43.8 | 31.3 | 25 | 0 | 0 | 4.192 | Excellent |
| Q5 | 50 | 43.8 | 6.3 | 0 | 0 | 4.441 | Excellent |
| Q6 | 56.3 | 43.8 | 0 | 0 | 0 | 4.567 | Excellent |
| Q7 | 50 | 43.8 | 6.3 | 0 | 0 | 4.441 | Excellent |
| Q8 | 43.8 | 50 | 6.3 | 0 | 0 | 4.379 | Excellent |
| Q9 | 100 | 0 | 0 | 0 | 0 | 5 | Excellent |

The highest score of of 5 was given to the parameter "Electives enable the passion to learn new technologies in emerging area" followed by the parameter "The depth of the course content is adequate to have significant learning outcomes" and other "The Curriculum providing opportunity towards self-learning to realize the expectations" with a score of 4.567 and has been rated as Excellent.

It is clearly visible from the table that the parameters "Curriculum is sufficient to bridge the gap between industry standards /current global scenarios and academics" obtained average scores 4.5 respectively and has been rated as Excellent.

The parameters "The timely coverage of syllabus is possible in the mentioned number of hours" and "Rate the capability of the curriculum for improving ethical values in students" obtained the scores of 4.441 respectively and has been rated as Excellent which clearly reflects the benefit towards the student expectations.

Average scores of 4.379, 4.379 and 4.379 were obtained by the parameters "Course Contents of Curriculum in tune with the Program Outcomes", "The number of theoretical courses and laboratory sessions sufficient to improve the technical skills of students" and "" and also "The practical's enable to develop experimental, design, problem solving and analysis skills of the students".

The analysis of the teachers' feedback reflects the adequacy and availability of teaching-learning facilities and adequacy of the syllabus. Also, it is quite helpful in reframing the course content according to the societal needs.

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## Feedback from Employer 2016-17 (Academic Year) - UG – B. Tech (EEE)

Feedback has been received from the Employer on the following nine parameters:

Q1. Course Contents of Curriculum in tune with the Program Outcomes.

Q2. Curriculum helps in bridging gap between industry and academic institution.

Q3. Applicability of the domains and the tools used for designing the experiments in terms of existing practices in the Electrical and Electronics Industry.

Q4. Professional and Open Electives are in relation to the Technological advancements and fulfilling the needs of electrical and allied industries.

Q5. Curriculum develops skills to model and analyze the electrical and allied industrial issues.

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 categorizationis carried based on Excellent (≥4); Very Good (≥3.5&<4); Good (≥3&<3.5); Moderate (>2 &<3) and Unsatisfactory (<2)

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 Employer 2016 – 17**

| Parameters | Rating 5 | Rating 4 | Rating 3 | Rating 2 | Rating 1 | Average Score | Rating |
|---|---|---|---|---|---|---|---|
| **Q1** | 16.7 | 83.3 | 0 | 0 | 0 | 4.167 | Excellent |
| **Q2** | 66.7 | 33.3 | 0 | 0 | 0 | 4.667 | Excellent |
| **Q3** | 50 | 50 | 0 | 0 | 0 | 4.5 | Excellent |
| **Q4** | 66.7 | 33.3 | 0 | 0 | 0 | 4.667 | Excellent |
| **Q5** | 33.3 | 66.7 | 0 | 0 | 0 | 4.333 | Excellent |

The highest scores of 4.667 was given to the parameter "Curriculum helps in bridging gap between industry and academic institution" and "Professional and Open Electives are in relation to the Technological advancements and fulfilling the needs of electrical and allied industries" has been rated as Excellent.

It is clearly visible from the table that the parameters "Applicability of the domains and the tools used for designing the experiments in terms of existing practices in the Electrical and Electronics Industry" obtained average scores 4.5 respectively and has been rated as Excellent.

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The parameters "Course Contents of Curriculum in tune with the Program Outcomes" and "Curriculum develops skills to model and analyze the electrical and allied industrial issues" obtained the scores of 4.166 and 4.333 respectively and has been rated as Excellent which clearly reflects the benefit towards the student expectations.
Time to time meetings were conducted at the department level to leverage new and advanced techniques to combat the learning difficulties of the students.
The feedback analysis given by employer reveals that by improving the required skills of Electrical and Electronics Engineering and it's allied Industry Demands helps the student to get placements.

**Feedback from Alumni 2016-17 (Academic Year) - UG – B. Tech (EEE)**

Feedback has been received from the students on the following seven parameters:

Q1. Curriculum has paved a good foundation in understanding the basic engineering concepts.

Q2. Course Contents of Curriculum are in tune with the Program Outcomes.

Q3. Curriculum imparted all the required Job Oriented Skills

Q4. The offering of the electives in relation to the Technological advancements and serve the needed in the industry.

Q5. Tools and Technologies learnt during laboratory sessions has enriched the skills.

Q6. Ability to compete with your peers from other Universities.

Q7. The curriculum relevant to job and future aspirations

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)

The result derived in terms of percentage of students with common views, average score, and ratings is presented in Table 1.

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**Table 1: Analysis of feedback from Alumni 2016 – 17**

| Parameters | Rating 5 | Rating 4 | Rating 3 | Rating 2 | Rating 1 | Average Score | Rating |
|---|---|---|---|---|---|---|---|
| **Q1** | 0 | 73.9 | 26.1 | 0 | 0 | 3.739 | Very Good |
| **Q2** | 26.1 | 21.7 | 43.5 | 8.7 | 0 | 3.652 | Very Good |
| **Q3** | 21.7 | 47.8 | 21.7 | 0 | 8.7 | 3.735 | Very Good |
| **Q4** | 56.5 | 4.3 | 39.1 | 0 | 0 | 4.17 | Excellent |
| **Q5** | 30.4 | 43.5 | 26.1 | 0 | 0 | 4.043 | Excellent |
| **Q6** | 17.4 | 30.4 | 52.2 | 0 | 0 | 3.652 | Very Good |
| **Q7** | 26.1 | 43.5 | 30.4 | 0 | 0 | 3.957 | Very Good |

The highest score of 4.17 was given to the parameter "The offering of the electives in relation to the Technological advancements and serve the needed in the industry" has been rated as Excellent and followed by the parameter "Tools and Technologies learnt during laboratory sessions has enriched the skills" has scored 4.043 has rated as Excellent.

It is clearly visible from the table that the parameters "Curriculum has paved a good foundation in understanding the basic engineering concepts", "Course Contents of Curriculum are in tune with the Program Outcomes", "Curriculum imparted all the required Job Oriented Skills", "Ability to compete with your peers from other Universities" and "The curriculum relevant to job and future aspirations" obtained average scores 3.739, 3.652, 3.735. 3.652and3.957 respectively and has been rated as Very Good.

**Chairman, CDMC**