



## Department of Electrical and Electronics Engineering

Date: 13-03-2020

### Curriculum Design and Monitoring Committee

#### Minutes of meeting

Curriculum Design and Monitoring Committee meeting for B.Tech program is conducted on 11-03-2020 in HoD Chamber at 10:00 AM. The following members were attended the meeting.

S.No	Members	Designation	Signature
1	Dr. G. Srinivasa Rao Professor & HoD	Chairman	
2	Dr. K. Mercy Rosalina Assoc. Professor	Member	
3	Dr. M. Subba Rao Assoc. Professor	Member	

Chairman-CDMC, presented feedback analysis to the committee.

1. Employers suggested the following,
  - i. Train them initially at the campus before coming to industry.
  - ii. Encourage the students to solve societal problems.
2. Alumni suggested the following
  - i. Advanced courses in core engineering
  - ii. More emphasis on simulation/software based experiments.
3. Faculty suggested the following
  - i. Credits should be given for NPTEL certification courses.
  - ii. Branch specific physics, mathematics, chemistry should be incorporate in the curriculum instead of common contents to all the branches.
4. Parents suggested the following
  - i. Communications skills need to be improved
  - ii. Students should also make to participate in various co-curricular activities.
5. Students suggested the following
  - i. More weightage for projects
  - ii. Improve the quantity of the courses conducted by industry persons

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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### Annexure-I

#### Feedback from Students 2019-20 (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 categorization is carried based on Excellent ( $\geq 4$ ); Very Good ( $\geq 3.5$  &  $< 4$ ); Good ( $\geq 3$  &  $< 3.5$ ); Moderate ( $> 2$  &  $< 3$ ) and Unsatisfactory ( $< 2$ )

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 2019-20**

Parameters	Rating 5	Rating 4	Rating 3	Rating 2	Rating 1	Average Score	Rating
Q1	8.9	73.3	17.8	0	0	3.911	Very Good
Q2	8.9	85.9	5.2	0	0	4.037	Excellent
Q3	8.9	86.7	4.4	0	0	4.045	Excellent
Q4	8.1	88.1	3.7	0	0	4.04	Excellent
Q5	9.6	86.7	3.7	0	0	4.059	Excellent
Q6	16.3	80.7	3	0	0	4.133	Excellent
Q7	16.3	81.5	2.2	0	0	4.141	Excellent
Q8	2.2	96.3	1.5	0	0	4.007	Excellent
Q9	3.7	94.8	1.5	0	0	4.022	Excellent

The highest score of 4.141 was given to the parameter "Composition of Basic Sciences, Engineering, Humanities and Management Courses is a right mix and satisfiable" followed by "The design of courses in the Curriculum is considered the extra learning or self learning" with a score of 4.133 and has been rated as Excellent.



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It is clearly visible from the table that the parameters "The electives offered in relation to the Technological advancements in Electrical and allied fields" and "Courses placed in the curriculum serves the needs of both advanced and slow learners" obtained average scores 4.059 and 4.045 respectively and has been rated as Excellent.

The parameters "Contact Hour Distribution among the various Course Components (LTP) is satisfiable" and "Course Contents are designed to enable Problem Solving Skills and Core competencies" obtained the scores of 4.04 and 4.037 respectively and has been rated as Excellent which clearly reflects the benefit towards the student expectations.

Average scores of 4.007; 4.022 and 3.911 were obtained by the parameters "Courses placed in the curriculum serves the needs of both advanced and slow learners"; "Inclusion of Minor Project/ Mini Projects improved the technical competency and leadership skills among the students" and "Laboratory sessions are sufficient to improve the technical skills of 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 Faculty 2019-20 (Academic Year) - UG – B. Tech (EEE)**

Feedback has been received from the Faculty on the following nine parameters: (2015-16)

- 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 categorization is carried based on Excellent ( $\geq 4$ ); Very Good ( $\geq 3.5$  &  $< 4$ ); Good ( $\geq 3$  &  $< 3.5$ ); Moderate ( $> 2$  &  $< 3$ ) and Unsatisfactory ( $< 2$ ).



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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 Faculty 2019 – 20**

Parameters	Rating 5	Rating 4	Rating 3	Rating 2	Rating 1	Average Score	Rating
Q1	61.5	30.8	7.7	0	0	4.538	Excellent
Q2	46.2	53.8	0	0	0	4.462	Excellent
Q3	46.2	53.8	0	0	0	4.462	Excellent
Q4	46.2	30.8	23.1	0	0	4.235	Excellent
Q5	69.2	30.8	0	0	0	4.692	Excellent
Q6	46.2	38.5	15.4	0	0	4.312	Excellent
Q7	61.5	30.8	7.7	0	0	4.538	Excellent
Q8	46.2	53.8	0	0	0	4.462	Excellent
Q9	46.2	38.5	15.4	0	0	4.312	Excellent

The highest score of 4.692 was given to the parameter “The timely coverage of syllabus is possible in the mentioned number of hours” has been rated as Excellent.

It is clearly visible from the table that the parameters “Course Contents of Curriculum in tune with the Program Outcomes” and “Rate the capability of the curriculum for improving ethical values in students” obtained average scores 4.538 respectively and has been rated as Excellent.

The parameters “The depth of the course content is adequate to have significant learning outcomes” and “Curriculum is sufficient to bridge the gap between industry standards /current global scenarios and academics” and “The number of theoretical courses and laboratory sessions sufficient to improve the technical skills of students” obtained the scores of 4.462 respectively and has been rated as Excellent which clearly reflects the benefit towards the student expectations.

Average scores of 4.312, 4.312 and 4.235 were obtained by the parameters “The Curriculum providing opportunity towards self-learning to realize the expectations”, “Electives enable the passion to learn new technologies in emerging area” and “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 Parents 2019-20 (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 ( $\geq 4$ ); Very Good ( $\geq 3.5$  &  $< 4$ ); Good ( $\geq 3$  &  $< 3.5$ ); 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 parents 2019 – 20**

Parameters	Rating 5	Rating 4	Rating 3	Rating 2	Rating 1	Average Score	Rating
Q1	40	40	20	0	0	4.2	Very Good
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



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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..

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 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 Employer 2019-20 (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 categorization is carried based on Excellent ( $\geq 4$ ); Very Good ( $\geq 3.5$  &  $< 4$ ); Good ( $\geq 3$  &  $< 3.5$ ); Moderate ( $> 2$  &  $< 3$ ) and Unsatisfactory ( $< 2$ )

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 Employer 2019 – 20**

Parameters	Rating 5	Rating 4	Rating 3	Rating 2	Rating 1	Average Score	Rating
Q1	71.4	14.3	14.3	0	0	4.571	Excellent
Q2	57.1	42.9	0	0	0	4.571	Excellent
Q3	71.4	28.6	0	0	0	4.714	Excellent
Q4	28.6	57.1	14.3	0	0	4.143	Excellent
Q5	100	0	0	0	0	5	Excellent

The highest scores of 5 and 4.714 was given to the parameter “Curriculum develops skills to model and analyze the electrical and allied industrial issues” and “Applicability of the domains and the tools used for designing the experiments in terms of existing practices in the Electrical and Electronics Industry” has been rated as Excellent.

It is clearly visible from the table that the parameters “Course Contents of Curriculum in tune with the Program Outcomes” and “Curriculum helps in bridging gap between industry and academic institution” obtained average scores 4.571 and 4.571 respectively and has been rated as Excellent.

The parameters “Professional and Open Electives are in relation to the Technological advancements and fulfilling the needs of electrical and allied industries” obtained the scores of 4.143 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 2019-20 (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.



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- 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 ( $\geq 4$ ); Very Good ( $\geq 3.5$  &  $< 4$ ); Good ( $\geq 3$  &  $< 3.5$ ); 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 Alumni 2019–20**

Parameters	Rating 5	Rating 4	Rating 3	Rating 2	Rating 1	Average Score	Rating
Q1	0	68.8	31.2	0	0	3.691	Very Good
Q2	18.8	18.8	50	12.5	0	3.442	Good
Q3	18.8	37.5	31.2	0	12.5	3.504	Very Good
Q4	50	12.5	37.5	0	0	4.125	Excellent
Q5	25	43.8	31.3	0	0	3.941	Very Good
Q6	12.5	25	62.5	0	0	3.5	Very Good
Q7	18.8	50	31.3	0	0	3.879	Very Good

The highest score of 4.125 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.

It is clearly visible from the table that the parameters “Curriculum has paved a good foundation in understanding the basic engineering concepts”, “Curriculum imparted all the required Job Oriented Skills”, “Tools and Technologies learnt during laboratory sessions has enriched the skills”, “Ability to compete with your peers from other Universities” and “The curriculum relevant to job and future aspirations” obtained average scores 3.691, 3.504, 3.941, 3.5 and 3.879 respectively and has been rated as Very Good.

The parameter “Course Contents of Curriculum are in tune with the Program Outcomes” obtained the score of 3.442 has been rated as Good which clearly reflects the benefit towards the student expectations.

  
Chairman, CDMC