VIGNAN'S
Foundation for Science, Technology & Research
(Deemed to be UNIVERSITY)
Estd. u/s 3 of UGC Act 1956 NAAC 'A'

Department of Electrical and Electronics Engineering

Date: 15-03-2019

Curriculum Design and Monitoring Committee

Minutes of meeting

Curriculum Design and Monitoring Committee meeting for B.Tech program is conducted on 12-03-2019 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	Mr. P.V.S.Sobhan Assoc. Professor	Member	
3	Dr. K.Mercy Rosalina Assoc. Professor	Member	

Chairman-CDMC, presented feedback analysis to the committee.

1. Employers suggested the following,
   i. Need more practical knowledge for all the students during their graduation.
   ii. Train them initially at the campus before coming to industry.
   iii. Motivate the students towards research based on current trends.
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. Compulsory inclusion of physical activity programs
   ii. Coaching for technical/Non-technical competitive exams
5. Students suggested the following
   i. More weightage for projects
   ii. Regular workshops need to be conducted.

Detailed feedback analysis report is enclosed as Annexure-I.

6. Chairman – CDMC has briefed the draft curriculum to the members. (R19 Curriculum)

Following are the changes suggested by members of CDMC in the revised curriculum course structure,

(a) Majority of theory courses are integrated with laboratory to improve the practical knowledge.

(b) Reduce the credits; it will give the time to self learning.

(c) Introduce physical fitness programs like sports and games.

(d) Encourage the students to do projects related to societal needs.

(e) Introduce MOOCS/NPTEL courses to enhance self learning..

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 Alumni 2018-19 (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.

Table 1: Analysis of feedback from Alumni 2018 – 19

Parameters	Rating 5	Rating 4	Rating 3	Rating 2	Rating 1	Average Score	Rating
Q1	0	75	25	0	0	3.75	Very Good
Q2	25	12.5	45.8	16.7	0	3.458	Good
Q3	12.5	37.5	33.3	0	16.7	3.291	Good
Q4	50	12.5	37.5	0	0	4.125	Excellent
Q5	20.8	54.2	25	0	0	3.958	Very Good
Q6	16.7	20.8	62.5	0	0	3.542	Very Good
Q7	25	45.8	29.2	0	0	3.958	Very Good

The highest score of 4.128 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", "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 3.75, 3.952, 3.542,and 3.958 respectively and has been rated as Very Good.

The parameter "Course Contents of Curriculum are in tune with the Program Outcomes", and "Curriculum imparted all the required Job Oriented Skills"obtained the score of 3.458 and 3.291 has been rated as Good which clearly reflects the benefit towards the student expectations.

Feedback from Employer 2018-19 (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 2018 – 19

Parameters	Rating 5	Rating 4	Rating 3	Rating 2	Rating 1	Average Score	Rating
Q1	83.3	16.7	0	0	0	4.833	Excellent
Q2	100	0	0	0	0	5	Excellent
Q3	33.3	66.7	0	0	0	4.333	Excellent
Q4	66.7	33.3	0	0	0	4.667	Excellent
Q5	33.3	50	16.7	0	0	4.166	Excellent

The highest scores of 5 and 4.833 was given to the parameter "Curriculum helps in bridging gap between industry and academic institution" and "Course Contents of Curriculum in tune with the Program Outcomes" has been rated as Excellent.

It is clearly visible from the table that the parameters "Professional and Open Electives are in relation to the Technological advancements and fulfilling the needs of electrical and allied industries" and "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 4.667 and 4.333 respectively and has been rated as Excellent.

The parameters "Curriculum develops skills to model and analyze the electrical and allied industrial issues" obtained the scores of 4.166 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 faculty 2018-19 (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).

Department of Electrical and Electronics Engineering

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 faculty 2018 – 19

Parameters	Rating 5	Rating 4	Rating 3	Rating 2	Rating 1	Average Score	Rating
Q1	56.3	37.5	6.3	0	0	4.504	Excellent
Q2	56.3	43.8	0	0	0	4.567	Excellent
Q3	50	50	0	0	0	4.5	Excellent
Q4	43.8	37.5	18.8	0	0	4.254	Excellent
Q5	62.5	31.3	6.3	0	0	4.566	Excellent
Q6	56.3	31.3	12.5	0	0	4.442	Excellent
Q7	50	31.3	18.8	0	0	4.316	Excellent
Q8	56.3	43.8	0	0	0	4.567	Excellent
Q9	50	31.3	12.5	6.3	0	4.253	Excellent

The highest score of 4.567 was given to the parameter "The depth of the course content is adequate to have significant learning outcomes" followed by "The number of theoretical courses and laboratory sessions sufficient to improve the technical skills of students" with a score of 4.567 and has been rated as Excellent.

It is clearly visible from the table that the parameters "The timely coverage of syllabus is possible in the mentioned number of hours" and "Course Contents of Curriculum in tune with the Program Outcomes" obtained average scores 4.566 and 4.504 respectively and has been rated as Excellent.

The parameters "Curriculum is sufficient to bridge the gap between industry standards /current global scenarios and academics" and "The Curriculum providing opportunity towards Self learning to realize the expectations" obtained the scores of 4.5 and 4.442 respectively and has been rated as Excellentwhich clearly reflects the benefit towards the student expectations.

Average scores of 4.316, 4.254 and 4.253 were obtained by the parameters "Rate the capability of the curriculum for improving ethical values in students"; "The practical's enable to develop experimental, design, problem solving and analysis skills of the students" and "Electives enable the passion to learn new technologies in emerging area".

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.

Feedback from Parents 2018-19 (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 ratings is presented in Table 1.

Table 1: Analysis of feedback from parents 2018 – 19

Parameters	Rating 5	Rating 4	Rating 3	Rating 2	Rating 1	Average Score	Rating
Q1	35	45	20	0	0	4.15	Very Good
Q2	20	50	30	0	0	3.9	Very Good
Q3	15	55	30	0	0	3.85	Very Good
Q4	50	20	30	0	0	4.2	Excellent
Q5	35	45	20	0	0	4.15	Excellent

The highest score of 4.2 was given to the parameter "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" followed by "Course Curriculum is of the global standard and is in tune with the needs of electrical and allied industries" and "Your ward is sensitized towards issues like gender equality, environment and sustainability, ethics and values etc., through relevant courses in the curriculum" with a score of 4.15 and has been rated as Excellent.

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","Competency of your ward is on par with the students from other Universities/Institutes" obtained the scores of 3.9, 3.85 respectively and has been rated as Very Good 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 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 Students 2018-19 (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 2018–19

Parameters	Rating 5	Rating 4	Rating 3	Rating 2	Rating 1	Average Score	Rating
Q1	7.2	89.8	3	0	0	4.042	Excellent
Q2	7.2	91	1.8	0	0	4.054	Excellent
Q3	5.4	94.6	0	0	0	4.054	Excellent
Q4	5.4	93.4	1.2	0	0	4.042	Excellent
Q5	6.6	91	2.4	0	0	4.042	Excellent
Q6	10.8	85.5	3.6	0	0	4.068	Excellent
Q7	9.6	87.3	3	0	0	4.062	Excellent
Q8	3.6	95.2	1.2	0	0	4.024	Excellent
Q9	3	89.2	7.8	0	0	3.952	Very Good

The highest score of 4.068 was given to the parameter "The design of courses in the Curriculum is considered the extra learning or self learning" followed by "Composition of Basic Sciences, Engineering, Humanities and Management Courses is a right mix and satisfiable" with a score of 4.062 and has been rated as Excellent.

It is clearly visible from the table that the parameters "Course Contents are designed to enable Problem Solving Skills and Core competencies" and "Courses placed in the curriculum serves the needs of both advanced and slow learners" obtained average scores 4.054 and 4.054 respectively and has been rated as Excellent.

The parameters "Courses placed in the curriculum serves the needs of both advanced and slow learners" and "Contact Hour Distribution among the various Course Components (LTP) is satisfiable" obtained the scores of 4.042 and 4.042 respectively and has been rated as Excellent which clearly reflects the benefit towards the student expectations.

Average scores of 4.024 and 3.952 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.

Chairman, CDMC