VIGNAN'S
Foundation for Science, Technology & Research
UNIVERSITY
(Estd u/s 3 of UGC Act of 1956)

Department of Electrical and Electronics Engineering

Date: 10-03-2016

Curriculum Design and Monitoring Committee

Minutes of meeting

Curriculum Design and Monitoring Committee meeting for B.Tech programme is conducted on 08-03-2016 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 Associate Professor	Member	
3	Mr. M. SubbaRao Assistant Professor	Member	

1. Chairman-CDMC, presented feedback analysis to the committee.
   a. 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.
   b. Alumni suggested the following
      1. Advanced courses in core engineering
      2. More emphasis on simulation/software based experiments.
      3. Need for specialized subjects to meet the current demands of industry
   c. Faculty suggested the following
      i. Credits should be given for NPTEL certification courses.
      ii. Basic Electrical Engineering Course is necessary for Electrical Students as per AICTE.
   d. Parents suggested the following
      i. Communications skills need to be improved
      ii. Prepare the curriculum which constitute the concepts suitable to core and government sector.
      iii. Students should also make to participate in other co-curricular activities in addition to academics.

Students suggested the following

i. More weight-age for projects
ii. Additional training is required to improve Employability skills

Detailed feedback analysis report is enclosed as Annexure-I.

2. Chairman – CDMC has briefed the draft curriculum to the members. (R16 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, as major institutions are offering below 200 credits, it will give the time to self learning.
(c) Offer courses related to life and employability skills.
(d) Incorporate modular course to expose the students in industry prospective and suggested to invite industry person to offer it.
(e) Introduce minor projects in all courses to enhance practical skills.

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 2015-16 (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 2015 – 16

Parameters	Rating 5	Rating 4	Rating 3	Rating 2	Rating 1	Average Score	Rating
Q1	0	93.3	6.7	0	0	3.933	Very Good
Q2	33.3	56.7	10	0	0	4.233	Excellent
Q3	13.3	70	16.7	0	0	3.966	Very Good
Q4	50	36.7	13.3	0	0	4.367	Excellent
Q5	23.3	63.3	13.3	0	0	4.096	Excellent
Q6	16.7	53.3	30	0	0	3.867	Very Good
Q7	26.7	53.3	20	0	0	4.067	Excellent

The highest score of 4.367 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 parameters "Course Contents of Curriculum are in tune with the Program Outcomes" and The curriculum relevant to job and future aspirations have scored 4.233and 4.067 have 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" and "Tools and Technologies learnt during laboratory sessions has enriched the skills." obtained scores 3.933, 3.966 and 3.867 respectively and has been rated as Very Good.

Feedback from Employer 2015-16 (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 ratingsis presented in Table 1.

Table 1: Analysis of feedback from Employer 2015–16

Parameters	Rating 5	Rating 4	Rating 3	Rating 2	Rating 1	Average Score	Rating
Q1	44.4	33.3	22.2	0	0	4.218	Excellent
Q2	33.3	66.7	0	0	0	4.333	Excellent
Q3	44.4	33.3	22.2	0	0	4.218	Excellent
Q4	33.3	55.6	11.1	0	0	4.222	Excellent
Q5	33.3	44.4	22.2	0	0	4.107	Excellent

The highest scores of 4.333 was given to the parameter "Curriculum helps in bridging gap between industry and academic institution" .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" obtained score 4.222 respectively and has been rated as Excellent.

The parameters "Course Contents of Curriculum in tune with the Program Outcomes" 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 the scores of 4.218 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 2015-16 (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 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 faculty 2015–16

Parameters	Rating 5	Rating 4	Rating 3	Rating 2	Rating 1	Average Score	Rating
Q1	45.5	45.5	9.1	0	0	4.368	Excellent
Q2	45.5	50	4.5	0	0	4.41	Excellent
Q3	54.5	45.5	0	0	0	4.545	Excellent
Q4	50	31.8	18.2	0	0	4.318	Excellent
Q5	59.1	36.4	4.5	0	0	4.546	Excellent
Q6	45.5	40.9	13.6	0	0	4.319	Excellent
Q7	50	40.9	9.1	0	0	4.409	Excellent
Q8	45.5	50	4.5	0	0	4.41	Excellent
Q9	31.8	59.1	9.1	0	0	4.227	Excellent

The highest score of 4.546 was given to the parameter "The timely coverage of syllabus is possible in the mentioned number of hours" and other "Curriculum is sufficient to bridge the

gap between industry standards /current global scenarios and academics" with a score of 4.545 and has been rated as Excellent.

It is clearly visible from the table that the parameters "The depth of the course content is adequate to have significant learning outcomes" and "Rate the capability of the curriculum for improving ethical values in students" and "The number of theoretical courses and laboratory sessions sufficient to improve the technical skills of students"obtained average scores 4.41 and 4.409 and 4.41 respectively and has been rated as Excellent.

The parameters "Course Contents of Curriculum in tune with the Program Outcomes" obtained the scores of 4.368 respectively and has been rated as Excellent which clearly reflects the benefit towards the student expectations.

Average scores of 4.319 and 4.318were 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.

Feedback from Parents 2015-16 (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 parents with common views, average score, and ratings is presented in Table 1.

Table 1: Analysis of feedback from parents 2015 – 16

Parameters	Rating 5	Rating 4	Rating 3	Rating 2	Rating 1	Average Score	Rating
Q1	35	50	15	0	0	4.2	Excellent
Q2	20	55	25	0	0	3.95	Very Good
Q3	20	50	30	0	0	3.9	Very Good
Q4	50	25	25	0	0	4.25	Excellent
Q5	35	50	15	0	0	4.2	Excellent

The highest score of 4.25 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" with a score of 4.2 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" and "your ward is sensitized towards issues like gender equality, environment and sustainability, ethics and values etc., through relevant courses in the curriculum" obtained the scores of 4.2, 3.9 and 3.95 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 2015-16 (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.

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Table 1: Analysis of feedback from students 2015–16

Parameters	Rating 5	Rating 4	Rating 3	Rating 2	Rating 1	Average Score	Rating
Q1	10.9	87.3	1.8	0	0	4.091	Excellent
Q2	13.3	84.8	1.8	0	0	4.111	Excellent
Q3	8.5	91.5	0	0	0	4.085	Excellent
Q4	9.1	89.7	1.2	0	0	4.079	Excellent
Q5	11.5	86.1	2.4	0	0	4.091	Excellent
Q6	14.5	81.8	3.6	0	0	4.105	Excellent
Q7	12.7	84.2	3	0	0	4.093	Excellent
Q8	3.6	94.5	1.8	0	0	4.014	Excellent
Q9	4.2	85.5	10.3	0	0	3.939	Very Good

The highest score of 4.111 was given to the parameter "Course Contents are designed to enable Problem Solving Skills and Core competencies" followed by "The design of courses in the Curriculum is considered the extra learning or self-learning." and " Course Contents of Curriculum are in tune with the Program Outcomes " with a score of 4.105 and 4.091 and has been rated as Excellent.

It is clearly visible from the table that 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 average scores 4.085 and 4.079 respectively and has been rated as Excellent.

The parameters "Composition of Basic Sciences, Engineering, Humanities and Management Courses is a right mix and satisfiable" and "Laboratory sessions are sufficient to improve the technical skills of students" obtained the scores of 4.093 and 4.014 respectively and has been rated as Excellent which clearly reflects the benefit towards the student expectations.

Average scores of 4.014 and 3.939 were obtained by the parameters "The design of courses in the Curriculum is considered the extra learning or self-learning" 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 student's technical skills and the courses placed in the curriculum supports both the advanced learners as well as slow learners.

Chairman, CDMC