



**Department of Electronics & Communication Engineering.**

**Minutes of CDMC Meeting**

05-03-2019

The members of Curriculum Design and Monitoring Committee for B.Tech Electronics & Communication Engineering program met on 05-03-2019 at VSF - 04, 'H' block, of VFSTR. The following members attended the meeting.

S.No	Members	Designation	Signatures
1.	Mr. T. Pitchaiah	Chairman	
2.	Dr. N. Usharani	Member	
3.	Mr. P.J. Reginald	Member	
4.	P. Krishna Chaitanya	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 2018-19.

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

1. Employers suggested the following,
  - a) Need more practical knowledge for all the students during their graduation.
  - b) Train them initially at the campus before coming to industry.
  - c) Motivate the students towards research based on current trends.
2. Alumni suggested the following
  - a) Advanced courses in core engineering
  - b) More emphasis on simulation/software based experiments.
3. Faculty suggested the following
  - a) Credits should be given for NPTEL certification courses.
  - b) Branch specific physics, mathematics, chemistry should be incorporate in the curriculum instead of common contents to all the branches.
4. Parents suggested the following
  - a) Compulsory inclusion of physical activity programs
  - b) Coaching for technical/Non-technical competitive exams
5. Students suggested the following
  - a) More weightage for projects
  - b) 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.

- (a) Reduce the no of credits - it will give the time to self-learning.
- (b) Majority of theory courses are integrated with laboratory to improve the practical knowledge.
- (c) Introduce physical fitness programs like sports and games.
- (d) Encourage the students to do projects related to intra-departmental, inter-departmental and fulfilling societal needs.
- (e) Introduce MOOCS/NPTEL courses to enhance self-learning.

  
Chairman, CDMC

## Annexure 1

### Feedback from Alumni Students 2018-19 (Academic Year) - UG – B. Tech (ECE)

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

	Strongly Agree	Agree	Moderate	Disagree	Strongly disagree	Avg. Rating	Grade
Q1	48.2	51.8	0	0	0	4.482	Excellent
Q2	69.4	30.6	0	0	0	4.694	Excellent
Q3	49.4	50.6	0	0	0	4.494	Excellent
Q4	69.4	30.6	0	0	0	4.694	Excellent
Q5	49.4	50.6	0	0	0	4.494	Excellent
Q6	49.4	50.6	0	0	0	4.494	Excellent
Q7	41.2	58.8	0	0	0	4.412	Excellent

Feedback has been received from the Alumni 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 highest score of 4.694 was given to the parameter “Q2: Course Contents of Curriculum are in tune with the Program Outcomes” and “Q4: The offering of the electives in relation to the Technological advancements and serve the needed in the industry” followed by “Q3: Curriculum imparted all the required Job Oriented Skills”, “Q5: Tools and Technologies learnt during laboratory sessions has enriched the skills”, and “Q6: Ability to compete with your peers from other Universities” with a score of 4.494 each and has been rated as Excellent.

The parameter “Q1: Curriculum has paved a good foundation in understanding the basic engineering concepts” obtained the average scores of 4.482 and has been rated as Excellent.

It is clearly visible from the table that the parameter “Q7: The curriculum relevant to job and future aspirations” obtained average score of 4.412 and has been rated as Excellent.

#### **Feedback from Employer 2018-19 (Academic Year) - UG – B. Tech (ECE)**

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 2018–19

	<b>Strongly Agree</b>	<b>Agree</b>	<b>Moderate</b>	<b>Disagree</b>	<b>Strongly Disagree</b>	<b>Avg. Rating</b>	<b>Grade</b>
<b>Q1</b>	46.7	53.3	0	0	0	4.467	Excellent
<b>Q2</b>	46.7	46.7	6.7	0	0	4.404	Excellent
<b>Q3</b>	26.7	73.3	0	0	0	4.267	Excellent
<b>Q4</b>	43.3	53.3	3.3	0	0	4.396	Excellent
<b>Q5</b>	43.3	53.3	3.3	0	0	4.396	Excellent

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

- Q1. Course Contents of Curriculum are 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 Electronics and Allied Industry.
- Q4. Professional and Open Electives are in relation to the Technological advancements and fulfilling the needs of electronics and allied industries.
- Q5. Curriculum develops skills to model and analyse the electronics and allied industrial issues.

The highest score of 4.467 was given to the parameter “Course Contents of Curriculum are in tune with the Program Outcomes.” followed by “Curriculum helps in bridging gap between industry and academic institution” with a score of 4.404 and has been rated as Excellent.

It is clearly visible from the table that the parameters “Curriculum develops skills to model and analyse the electronics and allied industrial issues.” and “Professional and Open Electives are in relation to the Technological advancements and fulfilling the needs of electronics and allied industries ” obtained average scores 4.396 and 4.396 respectively and has been rated as Excellent.

The parameter “Applicability of the domains and the tools used for designing the experiments in terms of existing practices in the Electronics and Allied Industry” obtained the scores of 4.267 and has been rated as Excellent which will be considered and benefit the students towards the ECE and its related Industry.

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 ECE and its related Industries.

The feedback analysis given by employer reveals that by improving the required skills of Applicability and fulfilling the gap between industries to academia to enable Industry Demands helps the student to get placements.

#### **Feedback from faculty 2018-19 (Academic Year) - UG – B. Tech (ECE)**

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 2018–19

	Strongly Agree	Agree	Moderate	Disagree	Strongly disagree	Avg. Rating	Grade
<b>Q1</b>	44.6	55.4	0	0	0	4.446	Excellent
<b>Q2</b>	44.6	54.5	0.8	0	0	4.434	Excellent
<b>Q3</b>	44.6	55.4	0	0	0	4.446	Excellent
<b>Q4</b>	39.7	60.3	0	0	0	4.397	Excellent
<b>Q5</b>	46.3	52.9	0.8	0	0	4.455	Excellent

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

Q1. Curriculum designed is in tune with program Vision and Mission

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

Q3. The depth of the course content is adequate to have significant learning outcomes.

Q4. Curriculum is sufficient to bridge the gap between industry standards /current global scenarios and academics

Q5. The practicals enable to develop experimental, design, problem solving and analysis skills of the students.

The highest score of 4.455 was given to the parameter "Q5: The practicals enable to develop experimental, design, problem solving and analysis skills of the students" followed by "Q1: Curriculum designed is in tune with program Vision and Mission" and "Q3: The depth of the course content is adequate to have significant learning outcomes" with a score of 4.446 each and has been rated as Excellent.

It is clearly visible from the table that the parameters "Q4: Curriculum is sufficient to bridge the gap between industry standards /current global scenarios and academics", and "Q2: Contents of Curriculum in tune with the Program Outcomes" obtained average scores 4.397, and 4.434 respectively and has been rated as Excellent.

#### **Feedback from Parents 2018-19 (Academic Year) - UG – B. Tech (ECE)**

The result derived in terms of percentage of Parents with common views, average score, and ratings is presented in Table 4.

Table 4: Analysis of feedback from Parents 2018–19

	<b>Strongly Agree</b>	<b>Agree</b>	<b>Moderate</b>	<b>Disagree</b>	<b>Strongly disagree</b>	<b>Avg. Rating</b>	<b>Grade</b>
<b>Q1</b>	72.5	17.5	0	0	0	4.325	Excellent
<b>Q2</b>	40	45	15	0	0	4.25	Excellent
<b>Q3</b>	45	27.5	27.5	0	0	4.175	Excellent
<b>Q4</b>	32.5	47.5	20	0	0	4.125	Excellent
<b>Q5</b>	20	47.5	32.5	0	0	3.875	Very Good

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 electronics and allied industries.

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

The highest score of 4.325 was given to the parameter “Q1: Your ward is sensitized towards issues like gender equality, environment and sustainability, ethics and values etc., through relevant courses in the curriculum” followed by “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” with a score of 4.25 and has been rated as Excellent.

It is clearly visible from the table that the parameters “Q3: Competency of your ward is on par with the students from other Universities/Institutes” and “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” obtained average score 4.175 and 4.125 respectively and has been rated as Excellent.

The parameter “Q5: Course Curriculum is of the global standard and is in tune with the needs of electrical and allied industries” obtained the score of 3.875 and has been rated as very good which clearly reflects the benefit towards the parent’s 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.



### Feedback from Students 2018-19 (Academic Year) - UG – B. Tech (ECE)

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

Table 5: Analysis of feedback from students 2018 – 19

	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	63.6	36.4	0	0	0	4.636	Excellent
Q2	51.2	48.8	0	0	0	4.512	Excellent
Q3	43	57	0	0	0	4.43	Excellent
Q4	30.2	69.8	0	0	0	4.302	Excellent
Q5	39.1	60.9	0	0	0	4.391	Excellent
Q6	38.8	61.2	0	0	0	4.388	Excellent
Q7	35.2	64.8	0	0	0	4.352	Excellent
Q8	34.1	65.9	0	0	0	4.341	Excellent
Q9	35.2	64.8	0	0	0	4.352	Excellent

- Q1. Course Contents of Curriculum are 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 highest score of 4.636 was given to the parameter “Q1: Course Contents of Curriculum are in tune with the Program Outcomes” followed by “Q2: Course Contents are designed to enable Problem Solving Skills and Core competencies” with a score of 4.512 and “Q7: The number of theoretical courses and laboratory sessions sufficient to improve the technical skills of students is a right mix and satisfiable” obtained the average score of 4.352 and has been rated as Excellent.



It is clearly visible from the table that the parameters "Q3: Curriculum is sufficient to bridge the gap between industry standards /current global scenarios and academics"; "Q8: The number of theoretical courses and laboratory sessions sufficient to improve the technical skills of students"; "Q5: The timely coverage of syllabus is possible in the mentioned number of hours" and "Q9: Electives enable the passion to learn new technologies in emerging area" obtained the average scores are 4.43; 4.341; 4.391 and 4.352 respectively and has been rated as Very Good.

Average scores of 4.388 and 4.302 were obtained by the parameters "Q6: Curriculum is providing opportunity towards Self learning to realize the expectations" and "Q4: The practical's enable to develop experimental, design, problem solving and analysis skills of the students".

The following are the important points recommended by CDMC to incorporate in new curriculum

1. Curriculum should motivate students towards self-learning.
2. Provision of credits for online courses like MOOCs and NPTEL courses
3. Instead of minor projects, curriculum comprises of Projects oriented towards industrial and societal needs.
4. Decrement in the no of credits is suggested.
5. Introduce credits for physical fitness, sports and games.
6. Project-based learning approach.
7. The inclusion of Theory with Laboratory is giving overall development in the student.

  
Chairman, CDMC