Department of Electrical and Electronics Engineering

Minutes of CDMC Meeting

10-04-2019

The members of Curriculum Design and Monitoring Committee for M.Tech. Power Electronics and Drives program met on 10-04-2019in HoD Chamber, Department of EEE, H-Block, VFSTR. The following members attended the meeting.

S.No	Members	Designation	Signatures
1.	Dr. G. Srinivasa Rao Professor & HoD	Chairman	
2.	Mr. P.V.S.Sobhan Assoc. Professor	Member	
3.	Mr. M. SubbaRao Asst. Professor	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. Better to include Embedded Systems and IoT related fundamental courses in the curriculum..
   b. Must design project-based curriculum.
2. Alumni suggested the following
   a. Add more case studies for every laboratory course to enable the skills in students
   b. Need for the tools used for designing the experiments in terms of existing practices in the Electrical and Electronics Industry.
3. Faculty suggested the following
   a. Introduce Technical seminars with the industrial experience person
   b. Students need to work on communication and presentation skills.
4. Parents suggested the following
   a. Need to organize technical activities on emerging technologies apart from the syllabus.
   b. Need to get real-time exposure and design & solve the local problems.
5. Students suggested the following
   a. The curriculum will be more practical oriented than theory and suitable for project-oriented learning

b. The curriculum must improve the placements of the department.

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

Feedback from Alumni Students 2018-19 (Academic Year) - PG – M. Tech (PED)

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

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

Q2.Course Contents of Curriculum fulfilled the specified Program Outcomes

Q3.Curriculum imparted all the required Job Oriented Skills / prerequisite to pursue higher education

Q4.Electives of Curriculum served the technical advancements needed to serve in the industry.

Q5.Tools and Methodologies followed during practical sessions has enriched the required practical knowledge to serve in Industry

Q6.Competency with your peers from other Institutions.

Q7.Current curriculum meets the present industry demands

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	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	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 Goo
Q6	6.7	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 4.125 was given to the parameter "Electives of Curriculum served the technical advancements needed to serve in the industry" has been rated as Excellent.

It is clearly visible from the table that the parameters "Tools and Methodologies followed during practical sessions has enriched the required practical knowledge to serve in Industry" and "Tools and Methodologies followed during practical sessions has enriched the required practical knowledge to serve in Industry" obtained average scores 3.958 and 3.958 respectively and has been rated as Very Good.

The parameters "Curriculum has paved a good foundation in understanding the concepts" and "Curriculum has paved a good foundation in understanding the concepts" obtained the scores of 3.75 and 3.542 respectively and has been rated as Very Good which clearly reflects the benefit towards the student expectations.

Average scores of 3.458 and 3.291 were obtained by the parameters "Course Contents of Curriculum fulfilled the specified Program Outcomes"; and "Curriculum imparted all the required Job Oriented Skills / prerequisite to pursue higher education".

Feedback from Employer 2018-19 (Academic Year) - PG – M. Tech (PED)

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

Q1. Course Contents of M.Tech. Power Electronics and Drives Curriculum is in tune with the Program Outcomes.

Q2. Relevance of the Course Contents in tune with the Power electronics Industry Demands.

Q3. Elective are in-line with the technology advancements in Modelling and Design Sectors.

Q4. Applicability of the tools and technologies described in the curriculum will be enough to practice in Industry.

Q5. Applicability of the domains and the tools used for designing the experiments in terms of existing practices in the Electrical and Electronics Industry.

The result derived in terms of percentage of employer with common views, average score, and ratingsis presented in Table 3.

Table 3: Analysis of feedback from Employer 2018–19

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	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 "Relevance of the Course Contents in tune with the Power electronics Industry Demands" and "Course Contents of M.Tech Power Electronics and Drives Curriculum is in tune with the Program Outcomes" has been rated as Excellent.

It is clearly visible from the table that the parameters "Applicability of the tools and technologies described in the curriculum will be enough to practice in Industry" and "Elective are in-line with the technology advancements in Modelling and Design Sectors" obtained average scores 4.667 and 4.333 respectively and has been rated as Excellent.

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 the scores of 4.166 respectively and has been rated as Excellent which clearly reflects the benefit towards the student expectations.

Feedback from faculty 2018-19 (Academic Year) - PG – M. Tech (PED)

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

Q1.Curriculum designed is in tune with program Vision and Mission.
Q2.Contents of the curriculum enhances the core competencies and employability skills.
Q3.Allocation of Credits to the Courses Satisfiable.
Q4.Contact Hour Distribution among the various Course Components (LTP) is Satisfiable.
Q5.Electives offered in the program makes the faculty to explore latest technologies.
Q6.Curriculum providing opportunity towards self-learning to meet the expectations.
Q7.Number of theoretical courses and laboratory sessions sufficient to improve the technical and research skills of students.
Q8.Courses with 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 result derived in terms of percentage of faculty with common views, average score, and ratingsis presented in Table 5.

Table 5: Analysis of feedback from faculty 2018–19

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Average Score	Rating
Q1	58.8	35.3	5.9	0	0	4.529	Excellent
Q2	52.9	47.1	0	0	0	4.529	Excellent
Q3	52.9	47.1	0	0	0	4.529	Excellent
Q4	47.1	35.3	17.6	0	0	4.295	Excellent
Q5	58.8	35.3	5.9	0	0	4.529	Excellent
Q6	52.9	35.3	11.8	0	0	4.411	Excellent
Q7	47.1	35.3	17.6	0	0	4.295	Excellent
Q8	52.9	47.1	0	0	0	4.529	Excellent
Q9	47.1	35.3	11.8	5.9	0	4.239	Excellent

The highest scores of 4.529 was given to the parameters are "Curriculum designed is in tune with program Vision and Mission" and "Contents of the curriculum enhances the core competencies and employability skills", "Allocation of Credits to the Courses Satisfiable", "Electives offered in the program makes the faculty to explore latest technologies" and "Courses with laboratory sessions are sufficient to improve the technical skills of students" with has been rated as Excellent.

It is clearly visible from the table that the parameters "Curriculum providing opportunity towards self-learning to meet the expectations" obtained average scores 4.411 respectively and has been rated as Excellent.

The parameters "Contact Hour Distribution among the various Course Components (LTP) is Satisfiable" and "Number of theoretical courses and laboratory sessions sufficient to improve the technical and research skills of students" obtained the scores of 4.295 respectively and has been rated as Excellentwhich clearly reflects the benefit towards the student expectations.

Average scores of 4.239 were obtained by the parameters "Inclusion of Minor Project/ Mini Projects improved the technical competency and leadership skills among the students".

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 Parents 2018-19 (Academic Year) - PG – M. Tech (PED)

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

Q1.Curriculum enhances the intellectual aptitude of your ward
Q2.Satisfaction with the offered curriculum for your wards future endeavours.
Q3.Overall assessment of technical knowledge acquired by your ward who is pursuing his/her program in our University
Q4.Your ward's competency with the students from other Institutes.
Q5.Curriculum offered is in tune with current Industry needs.

The result derived in terms of percentage of Parents with common views, average score, and ratings is presented in Table 7.

Table 7: Analysis of feedback from Parents 2018–19

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Average Score	Rating
Q1	37.5	37.5	25	0	0	4.125	Excellent
Q2	37.5	50	12.5	0	0	4.25	Excellent
Q3	37.5	50	12.5	0	0	4.25	Excellent
Q4	37.5	37.5	25	0	0	4.125	Excellent
Q5	37.5	25	37.5	0	0	4	Excellent

The highest score of 4.25 was given to the parameter "Curriculum offered is in tune with current Industry needs" followed by "Your ward's competency with the students from other Institutes", "Overall assessment of technical knowledge acquired by your ward who is pursuing his/her program in our University" and "Satisfaction with the offered curriculum for your wards future endeavours" with average scores of 4.25, 4 and 4 respectively and has been rated as Excellent.

The parameters "Curriculum enhances the intellectual aptitude of your ward",with a score of 3.875 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.

Feedback from Students 2018-19 (Academic Year) - PG – M. Tech (PED)

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 designed offered enriches Core Competencies
   Q3.Courses offered in the curriculum serves the needs of Electrical and Allied Industries
   Q4.Contact Hour Distribution among the various Course Components (LTP) is satisfiable.
   Q5.Electives have enabled the passion to learn new technologies in emerging and
       Interdisciplinary Areas
   Q6.Curriculum providing enable towards self-learning.
   Q7.No. of Laboratory sessions and Theory Courses have been sufficient to improve the
       technical and research skills.
   Q8.Research Projects improved the technical competency and leadership skills.
   Q9.Tools and technologies described in the curriculum are enough to design and develop
       new applications.

The result derived in terms of percentage of students with common views, average score, and ratings is presented in Table 8.

Table 8: Analysis of feedback from students 2018 – 19

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	25	75	0	0	0	4.25	Excellent
Q2	0	100	0	0	0	4	Excellent
Q3	0	100	0	0	0	4	Excellent
Q4	25	75	0	0	0	4.25	Excellent
Q5	0	100	0	0	0	4	Excellent
Q6	0	100	0	0	0	4	Excellent
Q7	0	100	0	0	0	4	Excellent
Q8	0	100	0	0	0	4	Excellent
Q9	0	100	0	0	0	4	Excellent

The highest score of 4.25 was given to the parameter "Contact Hour Distribution among the various Course Components (LTP) is satisfiable" followed by "Course Contents of Curriculum are in tune with the Program Outcomes" and "Course Contents designed offered enriches Core Competencies" with a score of 4.125 and 4 respectively and has been rated as Excellent.

It is clearly visible from the table that the parameters "No. of Laboratory sessions and Theory Courses have been sufficient to improve the technical and research skills" and "Courses offered in the curriculum serves the needs of Electrical and Allied Industries" obtained average scores 4 and 4 respectively and has been rated as Excellent.

The parameters "Curriculum providing enable towards self-learning" and "Electives have enabled the passion to learn new technologies in emerging and Interdisciplinary Areas" obtained the scores of 4 and 4 respectively and has been rated as Excellent which clearly reflects the benefit towards the student expectations.

Average scores of 4 and 4 were obtained by the parameters "Research Projects improved the technical competency and leadership skills" and "Tools and technologies described in the curriculum are enough to design and develop new applications".

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 reveals that 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