Department of Electronics and Communication Engineering

Minutes of CDMC Meeting

05-02-2020

The members of Curriculum Design and Monitoring Committee for M.Tech. Embedded Systems (ES) met on 05-02-2020 in HOD Chamber, Department of ECE, H-Block, VFSTR. The following members attended the meeting.

S.No	Members	Designation	Signatures
1.	Dr. T. Pitchaiah	Chairman	
2.	Dr. N. Usharani	Member	
3.	Mr. P.J. Reginald	Member	
4.	Mr. 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 2019-20.

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

a. Employers suggested the following,
   a. Concentrate on Programming Courses.
   b. Introduce application oriented courses in the curriculum.

b. Alumni suggested the following
   a. Product development is to be introduced.
   b. Add advances courses with real time exposure.

c. Faculty suggested the following
   a. Introduce Technical seminars with the enhanced practical sessions.
   b. Offer some courses on online platform which promote self-learning.

d. Parents suggested the following
   a. Add employability courses.
   b. Needs more improvement to add industry oriented courses.

e. Students suggested the following
   a. Add Embedded methodologies into the curriculum
   b. Improve the project based learning in the curriculum.

Detailed feedback analysis report is enclosed as Annexure-I

2. Chairman – CDMC has briefed the draft curriculum to the members. (R20 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) Encourage the students to do projects related to societal needs.

    (c) 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

Feedback from Alumni Students 2019-20 (Academic Year) - PG – M. Tech (ES)

Feedback has been received from the Alumni students on the following five 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

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 2019-20

	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	100	0	0	0	0	5	Excellent
Q2	100	0	0	0	0	5	Excellent
Q3	100	0	0	0	0	5	Excellent
Q4	100	0	0	0	0	5	Excellent
Q5	100	0	0	0	0	5	Excellent

The highest score of 5 was given to the parameter "Curriculum imparted all the required Job Oriented Skills / prerequisite to pursue higher education " followed by "Competing with your peers from other Universities" and "Curriculum is superior to your studied Curriculum" with a score of 5 and has been rated as Excellent.

The parameters "Electives of Curriculum served the technical advancements needed to serve in the industry" and "Tools and Technologies learnt during laboratory sessions has enriched the problem-solving skills" obtained the scores of 5 respectively and has been rated as Excellent

Feedback from Employer 2019-20 (Academic Year) - PG – M. Tech (ES)

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

Q1: Course Contents of M.Tech Embedded System Curriculum is in tune with the Program Outcomes

Q2: Relevance of the Course Contents in tune with the Embedded System Industry Demands

Q3: Elective are in-line with the technology advancements in Modeling and Design Sectors

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

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 employer with common views, average score, and ratings is presented in Table 2.

Table 2: Analysis of feedback from Employer 2019-20

	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	100	0	0	0	0	5	Excellent
Q2	0	100	0	0	0	4	Excellent
Q3	66.7	33.3	0	0	0	4.667	Excellent
Q4	33.3	33.3	33.3	0	0	3.996	Very Good

The highest score of 5 was given to the parameter "Course Contents of M.Tech Embedded System Curriculum is in tune with the Program Outcomes", followed by "Relevance of the Course Contents in tune with the Embedded System Industry Demands" with a score of 4 and has been rated as Excellent.

The parameter "Elective are in-line with the technology advancements in Modeling and Design Sectors and" "Applicability of the tools and technologies described in the curriculum will be enough to practice in Industry", obtained the scores of 4.667 and 3.996 and has been rated as Excellent which will be considered and benefit the students

The feedback analysis given by employer reveals that by improving the required skills of Electronic and Embedded System industries and Electronic and Embedded System enabled Industry Demands helps the student to get placements.

Feedback from faculty 2019-20 (Academic Year) - PG – M. Tech (ES)

Feedback has been received from the Faculty on the following eight 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.

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 employer with common views, average score, and ratings is presented in Table 3.

Table 3: Analysis of feedback from faculty 2019–20

	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	40	60	0	0	0	4.4	Excellent
Q2	40	60	0	0	0	4.4	Excellent
Q3	60	40	0	0	0	4.6	Excellent
Q4	20	80	0	0	0	4.2	Excellent
Q5	60	40	0	0	0	4.6	Excellent
Q6	60	40	0	0	0	4.6	Excellent
Q7	40	60	0	0	0	4.4	Excellent
Q8	60	40	0	0	0	4.6	Excellent

The highest score of 4.6 was given to the parameter " Q3: Allocation of Credits to the Courses Satisfiable", "Q5: Electives offered in the program makes the faculty to explore latest technologies and Q6: Curriculum providing opportunity towards self-learning to meet the expectations" followed by " Q1: Curriculum designed is in tune with program Vision and MissionQ2: Contents of the curriculum enhances the core competencies and employability skills" and " Q7: Number of theoretical courses and laboratory sessions sufficient to improve the technical and research skills of students", with a score of 4.4 and has been rated as Excellent.

The parameters "Q4: Contact Hour Distribution among the various Course Components (LTP) is Satisfiable" obtained the scores of 4.2 and has been rated as Excellent which clearly reflects the benefit towards the student expectations.

Feedback from Parents 2019-20 (Academic Year) - PG – M. Tech (ES)

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

Q1. Satisfaction of Academic and Emotional Progression 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 wards competency with the students from other Institutes
Q5. Curriculum offered is in tune with current Industry needs

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 ($\geq 3.5 \& <4$); Good ($\geq 3 \& <3.5$); 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 4.

<p align="center">Table 4: Analysis of feedback from Parents 2019– 20</p>

	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	50	50	0	0	0	4.5	Excellent
Q2	50	50	0	0	0	4.5	Excellent
Q3	0	100	0	0	0	4	Excellent
Q4	0	100	0	0	0	4	Excellent
Q5	50	50	0	0	0	4.5	Excellent

The highest score of 4.5 was given to the parameter "Satisfaction of Academic and Emotional Progression of your ward", followed by "Satisfaction with the offered curriculum for your wards future endeavors" and "Curriculum offered is in tune with current Industry needs" with a score of 4.787 and has been rated as Excellent.

It is clearly visible from the table that the parameters ""Overall assessment of technical knowledge acquired by your ward who is pursuing his/her program in our University", and "Your wards

competency with the students from other Institutes" obtained average score of 4 respectively and has been rated as Excellent.

Feedback from Students 2019-20 (Academic Year) - PG -- M. Tech (ES)

Feedback has been received from the students on the following eight parameters:

Q1.Course Contents of Curriculum in tune with the Program Outcomes
Q2. Course Contents designed offered enriches Core Competencies
Q3.Courses offered in the curriculum serves the needs of Electronics, Embedded 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.Electives have enabled the passion to learn new technologies in emerging and Interdisciplinary Areas
Q8.No. of Laboratory sessions and Theory Courses have been sufficient to improve the technical and research skills.

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 5.

	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	75	25	0	0	0	4.75	Excellent
Q2	75	25	0	0	0	4.75	Excellent
Q3	50	50	0	0	0	4.5	Excellent
Q4	50	50	0	0	0	4.5	Excellent
Q5	75	25	0	0	0	4.75	Excellent
Q6	25	75	0	0	0	4.25	Excellent
Q7	25	75	0	0	0	4.25	Excellent
Q8	25	75	0	0	0	4.25	Excellent

The highest score of 4.75 was given to the parameters "Q1.Course Contents of Curriculum in tune with the Program Outcomes", "Q2. Course Contents designed offered enriches Core Competencies" and " Q5.Electives have enabled the passion to learn new technologies in emerging and Interdisciplinary Areas" followed by "Q3.Courses offered in the curriculum serves the needs of Electronics and Allied IndustriesQ4.Contact Hour Distribution among the various Course Components (LTP) is Satisfiable."; with a score of 4.5 and has been rated as Excellent.

The parameters "Q6.Curriculum providing enable towards self-learning, Q7.Electives have enabled the passion to learn new technologies in emerging and Interdisciplinary Areas" and "Q8.No. of Laboratory sessions and Theory Courses have been sufficient to improve the technical and research skills." and obtained the scores of 4.25 respectively and has been rated as Excellent.

Chairman, CDMC