VIGNAN'S
Foundation for Science, Technology & Research
(Deemed to be University)

BIOMEDICAL ENGINEERING

Department of Electronics & Communication Engineering.

Minutes of CDMC Meeting

10-05-2021

The members of Curriculum Design and Monitoring Committee for B. Tech Biomedical Engineering program met on 10-05-2021 at CoE 'H' block, of VFSTR. The following members attended the meeting.

S.No	Members	Designation	Signatures
1.	Dr. T. Pitchaiah	Chairman	
2.	Dr. G. Sitaramanjaneya Reddy	Member	
3.	Mr. B. Sunil Tej	Member	
4.	P. Krishna Chaitanya	Member	

Agenda of the meeting

Analysis of the feedback collected from various stakeholders such as Alumni, Employers, Faculty, Parents and Students during the academic year 2020-21.

Chairman-CDMC, presented feedback analysis to the committee.

1. Employers suggested the following,
   a. Real Time projects should be inculcated and programming languages for Biomedical Engineering students are to inculcated.
   b. AMTZ facility should be visited
2. Faculty suggested the following
   a. More number of IT related courses should be included.
   b. Network Theory and Biomedical signal processing subjects should be modified.
   c. Core Biomedical Engineering subjects shouldn't be compromised.
3. Students suggested the following
   a. They wanted more programming courses that would help
   b. Regular workshops need to be conducted.
4. Alumni suggested the following
   a. Advanced courses in core subjects and python programming should
   b. Experiments related to Biomechanics and Biomaterials should have practicals

From current feedback 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

Annexure 1

Feed Back from Alumni 2020-21 (Academic Year) - UG – B. Tech (BM)

The result derived in terms of percentage of students with common views, average rating, and ratings is presented in Table 1.

Table 1: Analysis of feedback from Alumni 2020–21

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Rating
Q1	75	25	0	0	0	4.75	**Excellent**
Q2	87.5	12.5	0	0	0	4.875	**Excellent**
Q3	62.5	37.5	0	0	0	4.625	**Excellent**
Q4	75	25	0	0	0	4.75	**Excellent**
Q5	62.5	37.5	0	0	0	4.625	**Excellent**
Q6	75	25	0	0	0	4.75	**Excellent**
Q7	100	0	0	0	0	5	**Excellent**

The highest score of 5 was given to the parameter ". Current Curriculum is superior to your studied Curriculum" & "The Course Contents of Curriculum are in tune with the Program Outcomes" which has been rated as followed by. ". Curriculum has paved a good foundation in understanding the basic engineering concepts"; "Professional and Open Electives of Curriculum served the technical advancements needed to serve in the industry" & "Ability to compete with your peers from other Universities" which has been rated as Excellent with a score of 4.875,4.75,4.75 and 4.75 respectively.

Score of 4.625 given to the following "Curriculum imparted all the required Job Oriented Skills" & "Tools and Technologies learnt during laboratory sessions has enriched the problem-solving skills".

Feedback from Students 2020-21 (Academic Year) - UG – B. Tech (BM)

The result derived in terms of percentage of students with common views, average rating, and ratings is presented in Table 2.

Table 2: Analysis of feedback from students 2020 – 21

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Average Rating	Grade
Q1	74.8	19.4	2.9	1.9	0	4.641	**Excellent**
Q2	69.9	25.2	2.9	1	0	4.61	**Excellent**
Q3	74.8	19.4	1	3.9	0	4.624	**Excellent**
Q4	78.6	16.5	1.9	1.9	0	4.685	**Excellent**
Q5	77.7	17.5	0	1.9	1.9	4.642	**Excellent**
Q6	82.5	14.6	1	1	0	4.759	**Excellent**

Q7	77.7	18.4	1.9	1	0	4.698	**Excellent**
Q8	76.7	19.4	1	1	1	4.671	**Excellent**
Q9	80.6	15.5	1	1	1	4.71	**Excellent**

The highest score of 4.759 was given to the parameter "The design of courses in the Curriculum is considered the extra learning or self learning" followed by "Inclusion of Minor Project/ Mini Projects improved the technical competency and leadership skills among the students" with a score of 4.71 and has been rated as Excellent.

It is clearly visible from the table that the parameters "Composition of Basic Sciences, Engineering, Humanities and Management Courses is a right mix and satisfiable."; "Contact Hour Distribution among the various Course Components (LTP) is satisfiable." and "Laboratory sessions are sufficient to improve the technical skills of students." obtained average rating 4.698, 4.685 and 4.671 respectively and has been rated as Excellent.

The parameters "The electives offered in relation to the Technological advancements in Biomedical and allied fields."; "Course Contents of Curriculum are in tune with the Program Outcomes." and "Courses placed in the curriculum serves the needs of both advanced and slow learners."; "Course Contents are designed to enable Problem Solving Skills and Core competencies" obtained the scores of 4.642, 4.641 4.624 and 4.61 respectively and has been rated as Excellent .which clearly reflects the benefit towards the student expectations.

Feedback from Employer 2020-21 (Academic Year) - UG – B. Tech (BM)

The result derived in terms of percentage of employer with common views, average rating and ratings is presented in Table 3.

Table 3: Analysis of feedback from Employer 2020 – 21

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Rating
Q1	60	40	0	0	0	4.6	**Excellent**
Q2	20	80	0	0	0	4.2	**Excellent**
Q3	80	20	0	0	0	4.8	**Excellent**
Q4	60	20	20	0	0	4.4	**Excellent**
Q5	80	20	0	0	0	4.8	**Excellent**

The highest score of 4.8 was given to the parameter "5. Curriculum develops skills to model and analyze the biomedical and allied industrial issues and "3. Applicability of the domains and the tools used for designing the experiments in terms of existing practices in the

Biomedical Engineering Industry." Followed by "1. Course Contents of Curriculum are in tune with the Program Outcomes" which is rated as 4.6 Excellent .

It is clearly visible from the table that the parameter obtained average rating 4.4. "4 Professional and Open Electives are in relation to the Technological advancements and fulfilling the needs of biomedical and allied industries." and "2. Curriculum helps in bridging gap between industry and academic institution" which is rated as 4.2 Excellent.

Feedback from faculty 2020-21 (Academic Year) - UG – B. Tech (BM)

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

Table 4: Analysis of feedback from faculty 2020–21

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Rating
Q1	71.4	28.6	0	0	0	4.714	**Excellent**
Q2	100	0	0	0	0	5	**Excellent**
Q3	71.4	28.6	0	0	0	4.714	**Excellent**
Q4	85.7	14.3	0	0	0	4.857	**Excellent**
Q5	85.7	14.3	0	0	0	4.857	**Excellent**
Q6	71.4	28.6	0	0	0	4.714	**Excellent**
Q7	85.7	14.3	0	0	0	4.857	**Excellent**
Q8	100	0	0	0	0	5	**Excellent**
Q9	100	0	0	0	0	5	**Excellent**

The highest score of 5 was given to the parameter "Q2. The depth of the course content is adequate to have significant learning outcomes.", "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" and has been rated as Excellent.

It is clearly visible from the table that the parameters "Q4: To practically 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.", "Q7: Rate the capability of the curriculum for improving ethical values in students", obtained similar average rating 4.857, followed by "Q1: Course Contents of Curriculum are in tune with the Program Outcomes.", "Q3: Curriculum is sufficient to bridge the gap between industry standards /current global scenarios and academics.", "Q6: The Curriculum providing opportunity towards Self learning to realize the

expectations." Obtained similar average rating 4.714 respectively and has been rated as Excellent.

Chairman, CDMC