



**VIGNAN'S**  
Foundation for Science, Technology & Research  
**UNIVERSITY**  
(Established by U.O. No. 1 of 1996)

## **BIOMEDICAL ENGINEERING**

### **Department of Electronics and Communication Engineering.**

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Date: 05-01-2018

### **Re-Constitution of Curriculum Design and Monitoring Committee**

The Head of the Department constituted the Curriculum Design and Monitoring Committee for B. Tech. BM Program.

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

Curriculum Design and Monitoring Committee is re-constituted for a term of three years. It analyses the feedback from the students and give inputs to the BOS.

Thanking you sir,

Head of the Department  
Electronics and Communication Engineering

Copy to

1. The Vice Chancellor
2. The Registrar.
3. Dean, Academics.
4. ECE Faculty



BIOMEDICAL ENGINEERING

**Department of Electronics and Communication Engineering.**

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Date: 07-02-2018

**Curriculum Design and Monitoring Committee**

**Circular**

Curriculum Design and Monitoring Committee meeting for B.Tech. Program is scheduled on 02-03-2018 in VSF09, 'H' block, of VFSTR. at 11:00 AM. The members of CDMC are requested to attend the meeting.

**Agenda:**

1. Preparation of R19 Curriculum.



Chairman, CDMC



**BIOMEDICAL ENGINEERING**

**Department of Electronics & Communication Engineering.**

**Minutes of CDMC Meeting**

02-03-2018

The members of Curriculum Design and Monitoring Committee for B.Tech Biomedical Engineering met on 02-03-2018 at VSF09, 'H' block, of VFSTR. The following members attended the meeting.

| S.No | Members                      | Designation | Signatures |
|------|------------------------------|-------------|------------|
| 1.   | Mr. T. Pitchaiah             | Chairman    |            |
| 2.   | Dr. G. Sitaramanjaneya Reddy | Member      |            |
| 3.   | Mr. B. Sunil Tej             | Member      |            |
| 4.   | Mr. 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 2017-18.

Chairman-CDMC, presented feedback analysis to the committee.

1. Employers suggested the following,
  - a. Motivate the students towards research based on current trends.
  - b. Project oriented curriculum gives hands on experience.
2. Faculty suggested the following
  - a. Credits should be given for NPTEL certification courses.
3. Parents suggested the following
  - a. Communications skills need to be improved
  - b. Hospital visits should be conducted
4. Students suggested the following
  1. Industrial visits & hospital visits are to be conducted
  2. 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.

  
Chairman, CDMC

**Feedback from Students 2017-18 (Academic Year) - UG – B. Tech (BM)**

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 students 2017 – 18**

| Parameters | Rating 5 | Rating 4 | Rating 3 | Rating 2 | Rating 1 | Average Score | Rating    |
|------------|----------|----------|----------|----------|----------|---------------|-----------|
| Q1         | 65.9     | 34.1     | 0        | 0        | 0        | 4.659         | Excellent |
| Q2         | 37.6     | 61.2     | 1.2      | 0        | 0        | 4.364         | Excellent |
| Q3         | 34.1     | 64.7     | 1.2      | 0        | 0        | 4.329         | Excellent |
| Q4         | 63.5     | 32.9     | 3.5      | 0        | 0        | 4.596         | Excellent |
| Q5         | 42.4     | 57.6     | 0        | 0        | 0        | 4.424         | Excellent |
| Q6         | 48.2     | 49.4     | 2.4      | 0        | 0        | 4.458         | Excellent |
| Q7         | 51.8     | 48.2     | 0        | 0        | 0        | 4.518         | Excellent |
| Q8         | 40       | 60       | 0        | 0        | 0        | 4.4           | Excellent |
| Q9         | 41.2     | 58.8     | 0        | 0        | 0        | 4.412         | Excellent |

The highest score of 4.65 was given to the parameter “Course Contents of Curriculum are in tune with the Program Outcomes” followed by “Contact Hour Distribution among the various Course Components (LTP) is satisfiable” with a score of 4.596 and has been rated as Excellent.

It is clearly visible from the table that the parameters “The design of courses in the Curriculum is considered the extra learning or self-learning.” The electives offered in relation to the Technological advancements in Biomedical and allied fields and “Laboratory sessions are sufficient to improve the technical skills of students. obtained average scores 4.548, 4.424 and 4.412 respectively and has been rated as Excellent and

Average scores of 4.329 ; 4.364 were obtained by the parameters “Course Contents are designed to enable Problem Solving Skills and Core competencies”: “Courses placed in the curriculum serves the needs of both advanced and slow learners”

**Feedback from Employer 2017-18 (Academic Year) - UG – B. Tech (BM)**

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 2017 – 18**

| Parameters | Rating<br>5 | Rating<br>4 | Rating<br>3 | Rating<br>2 | Rating<br>1 | Average<br>Score | Rating    |
|------------|-------------|-------------|-------------|-------------|-------------|------------------|-----------|
| Q1         | 0           | 100         | 0           | 0           | 0           | 4                | Excellent |
| Q2         | 66.7        | 33.3        | 0           | 0           | 0           | 4.667            | Excellent |
| Q3         | 66.7        | 33.3        | 0           | 0           | 0           | 4.667            | Excellent |
| Q4         | 33.3        | 66.7        | 0           | 0           | 0           | 4.333            | Excellent |
| Q5         | 100         | 0           | 0           | 0           | 0           | 5                | Excellent |

The highest score of 5 was given to the parameter “5. Curriculum develops skills to model and analyze the biomedical and allied industrial issues.” followed by a score of 4.667 to “2. Curriculum helps in bridging gap between industry and academic institution.” & “3. Applicability of the domains and the tools used for designing the experiments in terms of existing practices in the Biomedical Engineering Industry..” with a score of 4.667 and has been rated as Excellent.

It is clearly visible from the table that the parameter scored 4.333 “Professional and Open Electives are in relation to the Technological advancements and fulfilling the needs of biomedical and allied industries. and followed by “1. Course Contents of Curriculum are in tune with the Program Outcomes” obtained average 3.667 and has been rated as Excellent.

#### **Feedback from faculty 2017-18 (Academic Year) - UG – B. Tech (BM)**

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 2017–18**

| Parameters | Rating 5 | Rating 4 | Rating 3 | Rating 2 | Rating 1 | Average<br>Score | Rating    |
|------------|----------|----------|----------|----------|----------|------------------|-----------|
| Q1         | 37.5     | 62.5     | 0        | 0        | 0        | 4.375            | Excellent |
| Q2         | 37.5     | 62.5     | 0        | 0        | 0        | 4.375            | Excellent |
| Q3         | 50       | 50       | 0        | 0        | 0        | 4.5              | Excellent |
| Q4         | 62.5     | 37.5     | 0        | 0        | 0        | 4.625            | Excellent |
| Q5         | 37.5     | 62.5     | 0        | 0        | 0        | 4.375            | Excellent |
| Q6         | 12.5     | 87.5     | 0        | 0        | 0        | 4.125            | Excellent |
| Q7         | 25       | 75       | 0        | 0        | 0        | 4.25             | Excellent |
| Q8         | 37.5     | 62.5     | 0        | 0        | 0        | 4.375            | Excellent |
| Q9         | 100      | 0        | 0        | 0        | 0        | 5                | Excellent |

The highest score of 5 & 4.5 Q9: Electives enable the passion to learn new technologies in emerging area” followed by “Q4. To practically enable to develop experimental, design, problem solving and analysis skills of the students” with the score of 4.625 followed by “3.

Curriculum is sufficient to bridge the gap between industry standards /current global scenarios and academics” with the score of 4.5 followed by “Q2: 2. The depth of the

course content is adequate to have significant learning outcomes.”; Q1. Course Contents of Curriculum are in tune with the Program Outcomes . “5.The timely coverage of syllabus is possible in the mentioned number of hours.”. “8: The number of theoretical courses and laboratory sessions sufficient to improve the technical skills of students” with a score of 4.375 and has been rated as Excellent.

“Q7: 7. Rate the capability of the curriculum for improving ethical values in students” with the score of 4.25 followed by “Q6. The Curriculum providing opportunity towards Self learning to realize the expectations” which is having the score of 4.125 which are rated as excellent.

#### **Feedback from Parent 2017-18 (Academic Year) - UG – B. Tech (BM)**

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

**Table 4: Analysis of feedback from Parent 2017 – 18**

| Parameters | Strongly Agree | Agree | Moderate | Disagree | Strongly Disagree | Avg. Rating | Rating    |
|------------|----------------|-------|----------|----------|-------------------|-------------|-----------|
| Q1         | 0              | 100   | 0        | 0        | 0                 | 4           | Excellent |
| Q2         | 0              | 100   | 0        | 0        | 0                 | 4           | Excellent |
| Q3         | 66.7           | 33.3  | 0        | 0        | 0                 | 4.667       | Excellent |
| Q4         | 33.3           | 66.7  | 0        | 0        | 0                 | 4.333       | Excellent |
| Q5         | 33.3           | 66.7  | 0        | 0        | 0                 | 4.333       | Excellent |

The highest score of 4.667 was given to the parameter “3. Competency of your ward is on par with the students from other Universities/Institutes..”followed by a score of 4.33 to “4.

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..”& “5. Course Curriculum is of the global standard and is in tune with the needs of electrical and allied industries.” has been rated as Excellent.

It is clearly visible from the table that the parameter “1. Your ward is sensitized towards issues like gender equality, environment and sustainability, ethics and values etc., through relevant courses in the curriculum” & “2. 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.”obtained average 4 and has been rated as Excellent.

  
 Chairman, CDMC

- (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