

# **R.M.D. Engineering College, Kavaraipettai**

## **(An Autonomous Institution)**

### **REGULATIONS 2021**

#### **CHOICE BASED CREDIT SYSTEM**

**Common to all B.E. / B.Tech Full-Time Programmes**  
**Applicable to the Students admitted to B.E. / B.Tech. Programmes from the**  
**AY 2021-22 onwards**

#### **DEGREE OF BACHELOR OF ENGINEERING / BACHELOR OF TECHNOLOGY**

This set of Regulations is applicable to the students admitted to B.E / B.Tech Programmes at R.M.D. Engineering College, Kavaraipettai, from the academic year **2021-22** onwards.

#### **1. PRELIMINARY DEFINITIONS AND NOMENCLATURE**

In these Regulations, unless the context otherwise requires:

- I) **“Programme”** means Degree Programme that is B.E./B.Tech. Degree Programme.
- II) **“Discipline”** means specialization or branch of B.E./B.Tech. Degree Programme, like Electronics and Communication Engineering, Information Technology, etc.
- III) **“Course”** means a theory or practical subject that is normally studied in a semester, like Mathematics, Physics, etc.
- IV) **“Chairman, Academic Council”** means the authority of the Autonomous Institution who is responsible for all academic activities of the Institute/Departments for implementation of relevant Rules and Regulations.
- V) **“Head of the Institution”** means the Principal of the College.
- VI) **“BoS Chairman”** means Chairperson of Board of Studies of each department / Division (S&H)
- VII) **“Head of the Department”** means the head of the Department concerned.
- VIII) **“Controller of Examinations”** means the authority of the Autonomous Institute who is responsible for all activities of the End semester Examinations.
- IX) **“Credit”** means a numerical value allocated for each course to describe the student’s workload required per week.
- X) **“Grade”** means the letter grade assigned to each course based on the range of marks specified.
- XI) **“Grade Point”** means a numerical value (0 to 10) allocated based on the grade assigned to each course.
- XII) **“University”** means ANNA UNIVERSITY, CHENNAI.

## **2. ADMISSION**

- 2.1 Candidates seeking admission to the first semester of the eight semesters B.E. / B.Tech. Degree Programme:

Should have passed the Higher Secondary Examinations of (10+2) Curriculum (Academic Stream) prescribed by the Government of Tamil Nadu with Mathematics, Physics and Chemistry as three of the four subjects of study under Part-III or any examination of any other University or authority accepted by the Syndicate of Anna University as equivalent thereto.

**(OR)**

Should have passed the Higher Secondary Examination of Vocational Stream (Vocational groups in Engineering / Technology) as prescribed by the Government of Tamil Nadu.

### **2.2 Lateral entry admission**

- (i) The candidates who possess the Diploma in Engineering / Technology awarded by the State Board of Technical Education, Tamilnadu or its equivalent are eligible to apply for Lateral entry admission to the third semester of B.E. / B.Tech. in the branch corresponding to the branch of study.

**(OR)**

- (ii) The candidates who possess the Degree in Science (B.Sc.,) (10+2+3 stream) with Mathematics as a subject at the B.Sc. Level are eligible to apply for Lateral entry admission to the third semester of B.E. /B.Tech.

Such candidates shall undergo two additional Engineering subject(s) in the **third and fourth semesters** as prescribed by the Institution/College.

## **3. PROGRAMMES OFFERED**

A candidate may be offered admission to any one of the following programme / disciplines of study approved by the Academic Council of Institution. The total credits for each B.E. / B.Tech. Degree programme are prescribed as follows.

### **I. Faculty of Computer Science and Engineering and Information Technology**

- 1. B.E. Computer Science and Engineering**
- 2. B.Tech. Information Technology**
- 3. B.Tech. Computer Science and Business Systems**
- 4. B.Tech. Artificial Intelligence and Machine Learning**

### **II. Faculty of Electronics and Communication Engineering**

- 4. B.E. Electronics and Communication Engineering**

## 4. STRUCTURE OF PROGRAMMES

### 4.1 Categorization of Courses

Every B.E. / B. Tech. Programme will have a curriculum with syllabi consisting of theory and practical courses that shall be categorized as follows:

- i. **Humanities and Social Sciences (HS)** courses include Technical English, Engineering Ethics and Human Values, Communication skills, Environmental Science and Engineering.
- ii. **Basic Sciences (BS)** courses include Mathematics, Physics, Chemistry, Biology, etc.
- iii. **Engineering Sciences (ES)** courses include Engineering practices, Engineering Graphics, Basics of Electrical / Electronics / Mechanical / Computer Engineering, Instrumentation etc.
- iv. **Professional Core (PC)** courses include the core courses relevant to the chosen specialization/branch.
- v. **Professional Elective (PE)** courses include the elective courses relevant to the chosen specialization/branch.
- vi. **Open Elective (OE)** courses include the courses from other branches which a student can choose from the list specified in the curriculum of the B.E./ B. Tech. Programmes approved by BoS and Academic Council.
- vii. **Employability Enhancement Courses (EEC)** include Project Work and/or Industry Internship, Seminar, Professional Practices, Case Study, Placement Training Courses and Industrial/Practical Training.
- viii. **Mandatory Courses (MC)** should be studied compulsorily by all the students irrespective of the programme which includes Induction Program.

### 4.2 Personality and Character Development

All students shall enroll, on admission, in any one of the personality and character development programmes (NSS/YRC/UBA) and undergo training for about 40 hours (20 hours for lateral entry). The training shall include classes on hygiene and health awareness and also training in first aid.

**National Service Scheme (NSS)** will have social service activities in and around the College / Institution.

**Youth Red Cross (YRC)** will have activities related to social services in and around College/Institution.

**Unnat Bharath Abhiyan (UBA)** – will have activities related to rural development in and around the College / Institution under UBA Scheme for the 5 Villages adopted by the Institute / College.

While the training activities will normally be during weekends, the camp will normally be during the vacation period.

### 4.3 Number of courses per semester

Each semester, the curriculum shall normally have a blend of lecture courses not exceeding **7** and Laboratory courses and Employability Enhancement Course(s) not exceeding **4**. Each Employability Enhancement Course may have credits assigned as per clause 4.4. However, the total number of courses per semester shall not exceed **10**.

#### 4.4 Credit Assignment

4.4.1. Each course is assigned certain number of credits based on the following:

Contact period per week	CREDITS
1 Lecture Period	1
2 Tutorial Periods	1
2 Laboratory Periods	1
2 Periods of EEC courses like / Seminar / Project Work /Case study / etc.)	1

The Contact Periods per week for Tutorials and Practical can only be in multiples of 2.

4.4.2. Total of 170 to 183 credits distributed among various subjects grouped under different categories are as follows:

S.No.	Category	Credits	Course Category Code (CCC)
1.	Humanities and Social Sciences	6 - 12	HS
2.	Basic Sciences	24 - 28	BS
3.	Engineering Sciences	18 - 22	ES
4.	Professional Core	79 - 81	PC
5.	Professional Elective	15 – 18	PE
6.	Open Elective	6 - 8	OE
7.	Employability Enhancement Courses	20 - 24	EEC
8.	Mandatory Courses	-	MC
<b>Total Credits</b>		<b>170 - 183</b>	

#### 4.5 Industrial Training / Internship

The students may undergo Industrial training for a period as specified in the Curriculum during summer/winter vacation. In this case, the training has to be undergone continuously for the entire period.

The students may undergo Internship at Research organization / University (after due approval from the HoD) for the period prescribed in the curriculum during summer/winter vacation, in lieu of Industrial training.

#### 4.6 Industrial Visit

Every student is required to go for at least two Industrial Visits every year starting from the second year of the Programme. The Heads of Departments shall ensure the necessary arrangements made in this regard.