



**SRI MANAKULA VINAYAGAR**  
**ENGINEERING COLLEGE**  
(An Autonomous Institution)

Puducherry

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**Regulations R-2023**  
**for**  
**B.Tech. Degree Programmes**  
(With effect from academic year 2023-24)  
**and**  
**Regulations for**  
**B. Tech. with Honours / Minor Degree Programmes**

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## VISION

To be globally recognized for excellence in quality education, innovation and research for the transformation of lives to serve the society.

## MISSION

**M1: Quality Education:** To provide comprehensive academic system that amalgamates the cutting edge technologies with best practices.

**M2: Research and Innovation:** To foster value-based research and innovation in collaboration with industries and institutions globally for creating intellectuals with new avenues.

**M3: Employability and Entrepreneurship:** To inculcate the employability and entrepreneurial skills through value and skill based training.

**M4: Ethical Values:** To instill deep sense of human values by blending societal righteousness with academic professionalism for the growth of society.

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**SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE**  
**(An Autonomous Institution)**  
**BACHELOR OF TECHNOLOGY PROGRAMME**  
**(Eight Semesters)**

**REGULATIONS 2023 (R-2023)**  
**CHOICE BASED CREDIT SYSTEMS (CBCS)**  
 (Common to all B. Tech. Programmes)

## 1. INTRODUCTION

- 1.1 Sri Manakula Vinayagar Engineering College (SMVEC) envisions to foster knowledge, skills, attitude and values of the aspiring youths to enable them to become global citizens. To obtain this transformation, the institution has evolved a flexible academic curriculum designed in accordance with the Outcome Based Education (OBE) which is acquired by the learners of a programme under 'Learner Centric' Model.
- 1.2 All the Under Graduate Engineering programme shall be governed by the rules and regulations provided in this version of Academic Regulations (R-2023). The curriculum of each programme provides broad based knowledge, quality course content, academic flexibility, and scope for multi-disciplinary learning activities and opportunities for industry oriented projects.
- 1.3 The provisions made in this document shall govern the policies, procedures, curriculum, conduct of the examinations and evaluation systems.
- 1.4 The semester system shall be adopted for academic activities in the college. Normally, odd semester starts in second week of June and even semester starts in second week of December.
- 1.5 Stringent evaluation norms will be followed to maintain quality of engineering education. The examination system will be transparent and governed by the rules and regulations with time bounded activities.

### Objectives of CBCS

- ❖ To shift focus from the teacher-centric to student-centric education.
  - ❖ To allow students to choose inter-disciplinary, intra-disciplinary and skill oriented courses from the choices to provide more flexibility in learning system.
  - ❖ To make education broad-based on par with global standards.
  - ❖ To help the students to earn credits by choosing unique combination of courses.
  - ❖ To create worldwide exposure to students by providing International Certificate Courses.
  - ❖ To provide necessary training to students for gaining vital life skills through skill development programmes.
  - ❖ To keep abreast of industrial requirements and societal needs, students are equipped through internship and inculcate the skill of converting Project into Product.
- 1.6 The rules and regulations shall be subjected to amendment made by the Academic Council (AC) from time to time.

## 2. PRELIMINARY DEFINITIONS AND NOMENCLATURE

College	:	Sri Manakula Vinayagar Engineering College
University	:	Pondicherry University
Programme	:	B.Tech. Degree
Discipline/ Department	:	Branch or specialization of B.Tech Degree Programme like Civil Engineering, Mechanical Engineering etc.,
Course	:	Theory/ Theory cum Practical / Practical courses that is normally studied in a semester. Eg: Mathematics, Computer Programming, etc.,
Professional Core Course	:	Compulsory course in the curriculum
Professional Elective Course	:	A course that can be chosen from the listed courses by a student based on his/her interest which is not covered in professional core courses.
Open Elective Course	:	A course that can be chosen by a student based on his/her interest from the list of multi-disciplinary courses offered by other departments.
Head of the Institution	:	The Director cum Principal
Controller of Examinations (CoE)	:	The authority who is responsible for all Examination related activities of the institution
Lateral Entry	:	Admission of students directly into the second year of B.Tech. Degree programme after the completion of Diploma Course in Engineering
L – T – P – PW – C	:	<b>L</b> - Lecture, <b>T</b> - Tutorial, <b>P</b> - Practical, <b>PW</b> – Project Work and <b>C</b> - Credits respectively
Curriculum	:	The various components / courses studied in each programme that provides an appropriate outcome in the chosen branch of study.
Semester Grade Point Average (SGPA)	:	Weightage of average grade points of courses in a semester.
Cumulative Grade Point Average (CGPA)	:	Weightage of average grade points of all courses in all semesters completed by a student
Odd semester	:	The Semester that is typically from June to November
Even semester	:	The Semester that is typically from December to May
Period	:	50 minutes duration of a Theory / Theory cum Practical / Practical class
Day	:	8 periods in a calendar day
Enrolment	:	Enlistment of a student on roll in an academic year
Arrear	:	A course in which a student has not fulfilled the examination passing criteria in the end semester examination.
CAT	:	Continuous Assessment Test
CAM	:	Continuous Assessment Marks
ESE	:	End Semester Examination
ESM	:	End Semester Examination Marks
AEC	:	Ability Enhancement Course
Regular Examination	:	End semester examination conducted for the courses prescribed in the curriculum of that semester.
Arrear Examination	:	End Semester examination conducted for the students who have not fulfilled the examination passing criteria in the previous attempt(s).

Supplementary Examination	: An additional examination exclusively conducted in the fifth and eighth semester for the students with a maximum of two arrears overall.
First Attempt	: Appearing for the end semester examination of a course in a semester for which the students have registered. If a student failed to appear for the end semester examination after registration, it is also treated as first attempt.
Academic Council (AC)	: An Apex academic body having the power to scrutinize and approve the proposals with or without modification of the Board of Studies with regard to programme of study, academic regulations, curricula, syllabi and modifications thereof, instructional and evaluation arrangements, methods, and procedures relevant thereto, etc.,
Board of Studies (BoS)	: An Apex academic body having the powers to approve the various courses, suggest teaching methodologies, coordinate research and other academic activities keeping in view the objectives of the college.
Academic Standing Committee (ASC)	: ASC shall perform the functions under emergency situations which are subject to ratification by the Academic Council (AC).
Academic Appeal Board (AAB)	: If a student finds some anomaly in the award of marks in the Continuous Assessment Test /End Semester examination, he/she can make an appeal to the <i>Academic Appeal Board</i> for review of marks awarded.
Department Advisory Committee (DAC)	: The Committee that formulates a process to review the post implementation effects of curriculum and suggest various measures to ensure academic standard and its excellency of the course offered by the department.
Department Consultative Committee (DCC)	: Reviews, revises and prepares curriculum structure based on the institutional policy and suggests improvements in syllabus of a course(s) prepared by course teacher(s) and forwards the curriculum to BoS for further recommendations. It monitors the academic progress and conduct of classes throughout the semester and takes appropriate corrective measures to improve the quality of curriculum delivery.
Programme Academic Coordinator (PAC)	: Coordinates all the academic activities of the department viz. Curriculum revision, framing of syllabus, time table, re-registration of course(s), display and submission of attendance status and BoS meeting as a member secretary.
NEP	: New Education Policy
SDGs courses	: Sustainable Development Goal (SDGs) courses
QCM	: Quality Circle Meeting
AICTE	: All India Council for Technical Education
UGC	: University Grants Commission
NBA	: National Board of Accreditation
NAAC	: National Assessment and Accreditation Council
CRC	: Complaint Redressal Committee

### 3. BRANCHES OF STUDY

Sri Manakula Vinayagar Engineering College offers the following B.Tech. Degree Programmes:

1. B.Tech - Electrical and Electronics Engineering (EEE)
2. B.Tech - Electronics and Communication Engineering (ECE)
3. B.Tech - Computer Science and Engineering (CSE)

4. B.Tech - Information Technology (IT)
5. B.Tech - Instrumentation and Control Engineering (ICE)
6. B.Tech - Mechanical Engineering (MECH)
7. B.Tech - Civil Engineering (CIVIL)
8. B.Tech - Biomedical Engineering (BME)
9. B.Tech - Mechatronics (MCTR)
10. B.Tech - Computer Science and Business Systems (CSBS)
11. B.Tech - Computer and Communication Engineering (CCE)
12. B.Tech - Artificial Intelligence and Data Science (AI&DS)
13. B.Tech - Fashion Technology (FT)

#### 4. ELIGIBILITY FOR ADMISSION

All candidates seeking admission to the First year of B.Tech. Degree and direct admission to the Second year of B.Tech. Degree under the Lateral Entry scheme shall be required to satisfy the eligibility rules prescribed by All India Council for Technical Education (AICTE) / Pondicherry University / Government of Puducherry as notified from time to time.

#### 5. DURATION OF THE PROGRAMME

A student after securing admission shall pursue **B.Tech programme with 16 instruction weeks per semester** for a minimum period of **4 academic years (8 semesters)**, if not he / she has to complete the degree within the maximum period of 7 years (14 semesters) starting from the commencement of the first semester. For a student admitted in lateral-entry mode, the minimum and maximum period of study shall be **3 academic years (6 semesters)** and 6 academic years (12 semesters) respectively starting from the commencement of the third semester.

#### 6. PROGRAMME STRUCTURE

- 6.1. The medium of instruction for the entire B.Tech degree programme shall be only in **ENGLISH**.
- 6.2. A student admitted to the B.Tech. programme in a particular branch of engineering will earn the degree in that branch by fulfilling all the requirements prescribed in the regulations during the course of study.
- 6.3. The student is also permitted to opt for earning an *Honours / Minor degree* in addition to the degree in his/her own discipline of engineering. The student will be allowed to choose this option from fourth semester onwards based on his/her academic performance till third semester. The students admitted through lateral entry can choose this option at the end of third semester, based on the GPA scored in the third semester examination. The guidelines for completing the Honours / Minor degree is given as a separate Regulations from page number 35 to 47.

#### 7. CURRICULUM STRUCTURE

- 7.1 The New Education Policy envisages several transformative initiatives in higher education. These include:
  - (i) The introduction of holistic and multidisciplinary undergraduate education that would help to develop all capacities of human beings - intellectual, aesthetic, social, physical, emotional, ethical, and moral in an integrated manner. It also focuses on soft skills such as complex problem solving, critical thinking, creative thinking, communication skills and rigorous specialization in a chosen field (s) of learning.
  - (ii) Adoption of flexible curricular structures in order to enable creative combinations of disciplinary areas for study in multidisciplinary context that would also allow flexibility in course options that would be an offer to students, in addition to rigorous specialization in a course or courses. Hence, meticulous care has been taken in designing the Curriculum that focuses more on the skill enhancement of the Students.
- 7.2. According to the National Board of Accreditation (NBA), the curriculum has to be evolved after finalizing the Programme Educational Objectives (PEOs) and the corresponding Programme Outcomes (POs). The POs have been directly listed by NBA for UG B.Tech programme.



Programme Specific Outcomes (PSOs) are to be evolved based on the knowledge and skills to be developed over the duration of Programme. The curriculum that evolves should broadly ensure the achievement of the POs and PSOs, and thus the PEOs of the programme.

### 7.3 Category of Courses and its Credit Distribution

Course work is measured in units called credit hours or simply credits. The number of hours of a course per week is the number of credits for that course. One credit per lecture/ Tutorial hour per week is assigned for each theory course. Practical courses are assigned for an hour with 0.5 credits per week. The credit details of the courses are shown in Table 7.1. A sum of 165 to 170 credits is distributed among various courses grouped under different categories as given in Table 7.2.

**Table 7.1 Credit details of courses**

Nature of Course	Number of hours/ week			Credits
	L	T	P	
Theory with Tutorial	3	1	-	4
Theory with Tutorial	2	1	-	3
Theory	3	-	-	3
Theory cum Practical	2	-	2	3
Practical	-	-	2	1
Micro / Mini Project	-	-	2	1
Project work	-	-	20	10
Internship / Inplant Training	-	-	-	1
<b>Total Number of Credits*</b>				Between 165 and 170

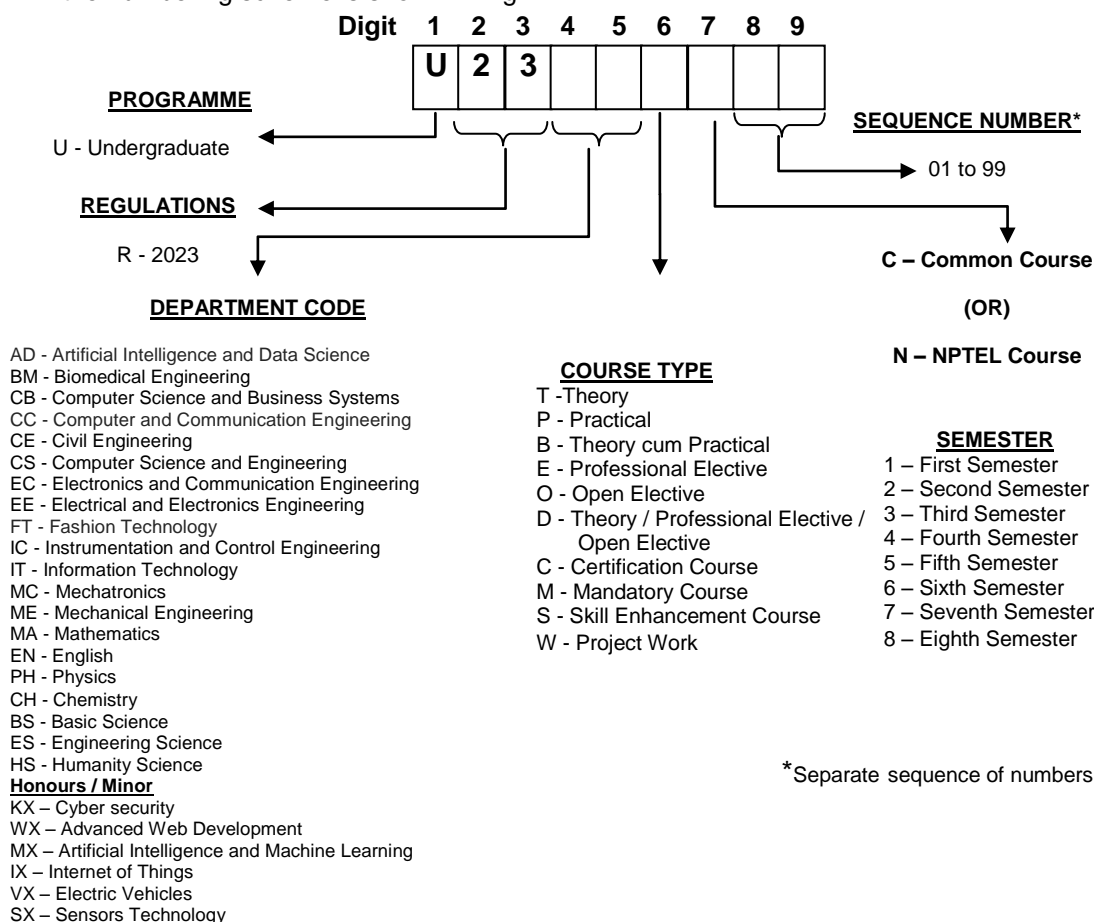
\*The student opting for B.Tech. Degree with Honours / Minor is required to earn additional 18-20 credits.

**Table 7.2 Credits distribution of various courses grouped under different categories**

Sl.No.	Category	Credit Range	Course Category Code
1	Humanities, Social Sciences and Management Courses	11 – 29	HS
2	Basic Science Courses (Mathematics, Physics, Chemistry etc.,)	17 – 31	BS
3	Engineering Science Courses (Workshop, Drawing, Basics of Electrical/Mechanical/Computer etc.,)	18 – 41	ES
4	Professional Core Courses	54 – 77	PC
5	Professional Elective Courses (from chosen discipline)	18 – 21	PE
6	Open Elective Courses (from technical/ emerging disciplines)	9	OE
7	Professional Activity Courses (Project Work, Seminar, Internship)	13 – 15	PA
8	Mandatory non-Credit Course (UHV-I, Climate Change, Sports, Yoga and NSS, Right to Information and Good Governance, Essence of Indian Traditional Knowledge and Gender Equality)	-	MC
9	Ability Enhancement Courses (Certification course and skill enhancement course)	-	AE
<b>Total Credits</b>		165 - 170	

## 7.4 Course Numbering Scheme

Each course is denoted by a unique code consisting of 9 alphanumeric characters. The detail of the numbering scheme is shown in Fig. 1.



\*Separate sequence of numbers for all courses

Fig. 1 Course code formation

## 7.5 Mandatory Two-Week Induction Programme

The students have to undergo a mandatory two-week induction programme at the beginning of I year. It includes physical activity, creative arts, universal human values, proficiency modules, lectures by eminent people, visits to local areas and familiarization to department/branch and innovations immediately after admission. The Induction Programme shall cover the Universal Human Values (UHV-I).

## 7.6 Universal Human Values (UHV-II)

The Course UHV-II shall be offered to all the B.Tech students in any one of the semesters from 1 to 4 with an objective of helping the students to see the need for developing a holistic perspective of life and sensitizing the scope of life - individual, family, society, nature/existence and strengthening self-reflection.

## 7.7 Theory cum Practical Courses

The Theory cum practical course is recommended in order to enrich practical knowledge of students. In this course, the theory part contains 3 units and for remaining 2 units, a minimum of 12 experiments which also includes experiments from Unit 1 to 3, shall be given as practical part.

## 7.8 Professional Elective Courses

Professional Elective Courses are the elective courses offered by the parent department. Each department will offer six elective courses from 4<sup>th</sup> to 8<sup>th</sup> semester during the programme. The elective course will be offered only if thirty or more number of students register for the course.

However, if the student enrolment in a class is less than 30, the head of the department will decide the elective course based on the majority of Students option, with the approval of Head of the Institution through Dean Academics.

### **7.9 Open Elective Courses**

Open Elective Courses are interdisciplinary elective courses offered by departments other than the parent department. Three Open Elective courses will be offered starting from 5<sup>th</sup> to 7<sup>th</sup> semester. An elective will be offered only if thirty or more number of students register for the course. However, if the student enrolment in a class is less than 30, the head of the department will decide the elective course based on the majority of Students option, with the approval of Head of the Institution through Dean Academics.

### **7.10 Project Work**

#### **7.10.1 Micro and Mini Project**

There shall be a Micro and Mini Project, which the student shall pursue as a team consists of maximum 4 students during the third year, fifth and sixth semester respectively. The aim of the micro and mini project is that the student has to understand the real time hardware / software applications. The student should gain a thorough knowledge in the problem he/she has selected and in the hardware / software, he/she using in the Project. The Micro and Mini-project is an application that should be formally initiated and should be developed and also to be implemented by the respective team.

#### **7.10.2 Final year Project (Phase I and II)**

Project work may be assigned to a group of students not exceeding 4 per group, under the supervision of project supervisor(s). Each student batch shall be required to undertake a suitable project in industry / research organization / department in consultation with the Head of the Department and the supervisor. A student shall register for the Project Phase I and II in 7<sup>th</sup> and 8<sup>th</sup> semester respectively. The project team and the project title can be decided in the 6<sup>th</sup> semester itself.

##### ***7.10.2.1 The process and guidelines for industry/Research organization projects***

- (i) Students opting for the industry / research organization project should decide, identify and interact with relevant industry/ research organization in 6<sup>th</sup> semester itself. Training and Placement cell shall help to establish contact with industries. Students shall take necessary help from their department for exact plan of action and apply to the industry / research organization through proper channel. The project coordinator shall decide the schedule appropriately.
- (ii) Students shall submit the application attached with relevant details viz. correspondence with industry, area and nature of project and its proposal to the department before the end of 6<sup>th</sup> semester.
- (iii) Head of the Institution / Dean Academics / Dean R&D / Placement Officer shall issue permission letter to the students on the recommendation of HoD and supervisor. Students shall be allowed to do the final year project work in the industry.
- (iv) An internal supervisor from the department and mentor from the industry/ research organization where the project is to be undertaken shall be allocated to the students. Both supervisors should discuss and finalize the scope of the project work and monitor the progress together.
- (v) Internal supervisor should visit the industry a minimum of 3 times in a semester to see the progress of his/her students and a brief report should be submitted to the HoD about the progress.
- (vi) Students should maintain a record on the progress and get the approval from both internal and external supervisors at least twice in a month either by physically or through email communication. If the progress is not found satisfactory due to any reason, the supervisor

should take the corrective action, after consulting with project coordinator and HoD.

- (vii) Progress report and certificate of completion of the project work from the industry / research organization shall be submitted by the students to the respective supervisor. The mode of evaluation shall be same as that of the in-house project.

#### **7.10.2.2. The Process and guidelines for in-house project**

- (i) Students execute their in-house project in the Department with proper approval from the HoD through the respective supervisor.
- (ii) Students should maintain a record on the progress and get the approval from supervisor at least once in a week. If the progress is not found satisfactory due to any reason, the supervisor should take the corrective action, after consulting with project coordinator and HoD.

### **7.11. Ability Enhancement Courses**

**7.11.1 Certification Courses:** Students shall choose an International / Reputed organization certification course of 40-50 hours duration specified in the curriculum (It is mandatory to do a minimum of six courses) which will be offered through the Centre of Excellence. These courses have no credit and will not be considered for CGPA calculation.

**7.11.2 Skill Enhancement Courses:** Skill Enhancement courses are non-credit courses, provided to enhance the knowledge and skill set of the students.

### **7.12. Mandatory Courses**

Mandatory Courses are to be completed successfully by a student. The Mandatory Courses included in the curriculum are UHV-I, Climate Change, Sports, Yoga and NSS, Right to Information and Good Governance, Essence of Indian Traditional Knowledge and Gender Equality. These courses have no credit and will not be considered for CGPA calculation.

### **7.13. Sustainable Development Goal (SDGs) courses – NEP 2020**

Sustainable Development Goal (SDGs) courses are given to the students as per NEP 2020 through Guest Lecture / Value added Courses / Online courses/ Mandatory Courses / Elective Courses.

### **7.14. Industrial Training / Internship**

The student is required to undergo 'internship' in industry / research laboratory / higher learning institution for a minimum period of 4 weeks during vacations and shall complete the internship before the completion of 7<sup>th</sup> semester.

- (i) The internship carries 1 credit.
- (ii) Each spell of internship shall be for a period not less than 2 weeks.
- (iii) The main purpose of internship is to enhance the general professional outlook and capability of the student to advance his/her chances of improving the career opportunities. The student should get prior approval from the Head of the Department and Training and Placement cell in the college before undertaking the internship and need to submit a detailed report after completion for the purpose of assessment. The internship marks will be given in 7<sup>th</sup> semester mark sheet.

## **8. COURSE ENROLMENT AND REGISTRATION**

**8.1** All the students of the B.Tech. programme shall register for the courses during a specified period in the beginning of the semester provided he/she fulfills the eligibility criteria prescribed for enrolment and registration of courses in that particular semester. List of students enrolled in a particular semester of a branch of study shall also include

- (i) Students who rejoin the programme after temporary break (vide Clause 15)
- (ii) Students who rejoin the programme after being stopped from moving to next higher semester due to non-fulfillment of attendance requirement (vide Regulation 10.2)
- (iii) After registering for all the courses, the student must attend the classes, satisfy the

attendance requirements, earn Continuous Assessment Marks (CAM) and appear for the End Semester Examinations (ESE).

**8.2 Pre-Registration:** A list of open elective courses offered in the next higher semester will be made available to the students three week before Pre-Registration. Open Elective courses will be offered from fifth to seventh semester. In order to facilitate proper planning of open elective courses to be offered in a semester, it is essential for the students to declare their intent to register for an open elective course well in advance, before the actual start of the semester classes, through the process of Pre-Registration. A student can choose the open elective courses in consultation with the concerned Faculty Adviser.

### 8.3 Arrear Course Registration

- (i) In the first attempt of writing the End Semester Examination of a course if a student fails, He / She can retain the existing CAM and proceeds to write the End Semester Examinations / Supplementary exams as and when it is conducted.
- (ii) The student(s) will be allowed to write their arrear course(s) as per their Regulations till its existence and also the CAM will be valid till the existence of their regulations. There after the student(s) has to register for the arrear course(s) only for the equivalent course (s) prescribed by the respective board as per the Regulations in-force and student(s) will be assessed for the total 100 marks in the End Semester Examinations.

### 8.4. Rejoining

- (i) The candidate at the time of rejoining should follow the regulations which exists in-force. The candidate rejoining in new Regulations shall apply to the Head of the Institution in the prescribed procedure through the Head of the Department at the beginning of the readmitted semester itself for prescribing additional/equivalent courses in the regulations in-force, so as to bridge the curriculum in-force and the old curriculum.

### 8.5. Re-earn the Continuous Assessment Marks (CAM)

If a student wishes to re-earn the Continuous Assessment Marks (CAM), He / She has to re-register by paying the prescribed fee for the course in the subsequent semester. The student has to re-earn the CAM by taking-up all the internal tests, assignments and presentation as per the norms of regulations. However, the higher marks scored by the students in his/her attempts for CAM shall be considered.

## 9 ASSESSMENT PROCEDURES FOR AWARDING MARKS

The total marks for each course (Theory, Practical, Theory cum Practical) comprising of two components namely Continuous Assessment Marks (CAM) and End Semester Examination Marks (ESM). However, Micro / Mini project, Internship, Ability Enhancement Courses (certification course and skill enhancement course) and Mandatory courses have only continuous assessment for 100 marks without an End Semester Examination.

### 9.1. Theory Courses

All theory courses shall be assessed as per Table 9.1.

**Table 9.1 Assessment method for Theory Courses**

Assessment	Continuous Assessment Marks (CAM)					End Semester Examination (ESE) Marks	Total Marks
	CAT 1	CAT 2	Model Exam	Assignment*	Attendance		
Marks	5	5	5	5	5	75	100

\* Application oriented / Problem solving / Design / Analytical in content beyond the syllabus

#### 9.1.1 Continuous Assessment:

Continuous Assessment Marks shall be based on attendance, Continuous Assessment tests and assignments.

**(a) Attendance:**

Attendance carries 5 marks and the distribution of marks is as follows:

- 5 marks for 95% and above
- 4 marks for 90% and above but below 95%
- 3 marks for 85% and above but below 90%
- 2 marks for 80% and above but below 85%
- 1 mark for 75% and above but below 80%

**(b) Continuous Assessment tests:**

Continuous Assessment test carries 15 marks. Performance in all the tests will be taken for assessment as follows:

**Table 9.2 Weightage of Assessment for Theory Courses**

S. No	Test	Portion for Test	Test Marks	Duration of Test	Weightage for Internal Marks
1	CAT - 1	2 Units	50	1 hour 30 Minutes	5
2	CAT - 2	2 Units	50	1 hour 30 Minutes	5
3	Model Exam	All 5 Units	75	3 hours	5
Continuous Assessment Tests Marks for Theory courses					15

**(c) Assignments:**

- Assignments carries 5 marks.
- The assignment should be in the form of Application oriented / Problem solving / Design / Analytical in content beyond the syllabus.

**9.1.2 End Semester Examination:**

The duration of examination shall be 3 hours with a maximum of 75 marks.

**9.1.3 Question Paper Pattern for Theory courses**

The question paper pattern of CAT, Model and End Semester Examination for Theory courses as per the Table 9.3, 9.4 and 9.5 shall be followed.

**Table 9.3 Question Paper pattern for CAT 1 and 2**

2 Mark Questions	5 Mark Questions	10 Mark Questions	Total Marks
5	4	2 (Out of 3 Questions)	50

**Table 9.4 Model and End Semester Examination Question Paper pattern for 5 unit courses**

2 Mark Questions	5 Mark Questions	10 Mark Questions	Total Marks
10 (two questions from each unit)	5 (one question from each unit)	3 (out of 5 Questions, one from each unit)	75

**Table 9.5 Model and End Semester Examination Question Paper pattern for 6 unit courses**

Course	2 Mark Questions	5 Mark Questions	8 /9 Mark Questions	Total Marks
Part A	5	2 (out of 3 questions, one from each unit)	2 9 mark questions (out of 3 questions, one from each unit)	38
Part B	5	2 (out of 3 questions, one from each unit)	1 8 mark question (out of 2 questions, from unit IV and Unit V)	37
			1 9 mark question (compulsory question from unit VI)	

**9.2 Practical Courses:**

All practical courses shall be assessed as per Table 9.6.

**Table 9.6 Assessment method for practical courses**

Assessment	Continuous Assessment Marks (CAM)					End Semester Examination (ESE) Marks	Total Marks
	Performance in practical classes			Model Practical Examination	Attendance		
	Conduction of practical	Record work	viva				
Marks	15	5	5	15	10	50	100

**9.2.1 Continuous Assessment:**

Continuous Assessment Marks shall be based on attendance, regular performance of the student in practical classes and a model practical examination conducted at the end of the semester.

**(a) Attendance:**

Attendance carries 10 marks and the distribution of marks is as follows:

- 10 marks for 95% and above
- 8 marks for 90% and above but below 95%
- 6 marks for 85% and above but below 90%
- 4 marks for 80% and above but below 85%
- 2 marks for 75% and above but below 80%

**(b) Performance in practical classes**

The regular performance in the practical class (conduction of practical (15 marks), Record work (5 marks) and viva (5 marks)) will be evaluated for 25 marks.

**(c) Performance in the Model practical examination**

Performance in the Model practical examination will be evaluated for 15 marks. The pattern of Model Practical Examination will be similar to the End Semester practical Examination.

**9.2.2 End Semester Examination:**

The End Semester Examination of the practical courses will be evaluated for 50 marks by a panel of examiners comprising of an internal examiner and an external examiner. The Break-up of marks is as follows:

Procedure / Algorithm	: 10 marks
Experiment / Program Execution	: 20 marks
Result / Output	: 10 marks
Viva-Voce	: 10 marks

**9.3 Theory cum Practical Courses**

All theory cum practical courses shall be assessed as per Table 9.7. The weightage for theory



part is 60% and for practical part is 40%.

**Table 9.7 Assessment method for theory cum practical courses**

Assessment	Continuous Assessment Marks (CAM) – Maximum 50 Marks										End Semester Examination (ESE) Marks (Theory )	Total Marks
	Continuous Assessment (Theory)					Continuous Assessment (Practical)						
	CA T 1	CA T 2	Model	Attendance	Total	Conductio n of Practical	Report	Viv a	Total	# End Semester Examination (ESE) Marks (Practical – Internal Evaluation)		
Marks	5	5	5	5	20*	15	10	5	30*		75**	-
*To be weighted for 10 Marks					10	*To be weighted for 10 Marks			10	30	**To be weighted for 50 Marks	100

# Final End semester practical exam to be conducted with internal and external examiner assigned by Head of the Institution and HoD.

### 9.3.1 Continuous Assessment (Theory part):

Continuous Assessment Marks for theory part (20 marks) shall be based on attendance (5 marks) and Continuous Assessment tests (15 marks).

#### (a) Attendance:

Attendance carries 5 marks and the distribution of marks is as follows:

- 5 marks for 95% and above
- 4 marks for 90% and above but below 95%
- 3 marks for 85% and above but below 90%
- 2 marks for 80% and above but below 85%
- 1 mark for 75% and above but below 80%

#### (b) Continuous Assessment tests:

Continuous Assessment test carries 15 marks. Performance in three tests will be taken for assessment as follows:

**Table 9.8 Weightage of Assessment for Theory cum Practical course (Theory part)**

S. No	Test	Portion for Test	Test Marks	Duration of Test	Marks
1	CAT - 1	1 ½ Units	50	1 hour 30 Minutes	10
2	CAT - 2	1 ½ Units	50	1 hour 30 Minutes	
3	Model Exam	All 3 Units	75	3 hours	5
Continuous Assessment Tests Marks for Theory cum practical courses					15

### 9.3.2 Continuous Assessment (Practical part):

The Evaluation for practical part is only through continuous assessment (10 marks) and End semester practical Internal evaluation (30 marks). The Break-up of marks for End semester practical Internal evaluation is as follows:

- Procedure / Algorithms : 5 marks
- Experiment / Program Execution: 10 marks
- Result / Output : 10 marks
- Viva-Voce : 5 marks

### 9.3.3 End Semester Examination:

The duration of examination shall be 3 hours with a maximum of 75 marks.

### 9.3.4 Question Paper Pattern – Theory cum Practical course



The question paper pattern of CAT, Model and End Semester Examination for theory cum practical courses is as follows:

**Table 9.9 Question Paper pattern for CAT 1 and 2 (Theory cum Practical course)**

2 Mark Questions	5 Mark Questions	10 Mark Questions	Total Marks
5	4	2 (Out of 3 Questions)	50

**Table 9.10 Question Paper pattern for Model and End Semester Examinations  
(Theory cum Practical course)**

2 Mark Questions	5 Mark Questions	14 Mark Questions	Total Marks
9 (3 questions from each unit)	3 (One question from each unit)	1 Compulsory question (with sub-section questions in any of the unit)	75*
		2 (out of 3 questions, one from each unit with sub-sections)	

*\*To be weighted for 50 Marks*

#### 9.4 Project work:

##### 9.4.1 Micro and Mini Project

The Micro and Mini Project shall be submitted in a report form along with the hardware model / software developed, duly approved by the department internal evaluation committee. It shall be evaluated for 100 marks as Continuous Assessment. The department internal evaluation committee shall consist of faculty coordinator, supervisor of the project and a senior faculty member of the department.

There shall be two reviews that will be considered for assessing a Micro and Mini Project work with weightage as indicated in Table 9.11.

**Table 9.11 Assessment method for Micro and Mini Project**

Assessment	Review 1			Review 2				Total Marks
	Novelty	Presentation	Viva	Presentation	Demonstration	Viva	Report	
Marks	10	20	10	20	20	10	10	100

##### 9.4.2 Final year Project (Phase I and II)

The Project work carried out in the seventh and eighth semesters shall be assessed as follows:

**Table 9.12 Assessment method for Project work**

Assessment Method	Marks	
	Phase-I	Phase-II
Continuous Assessment (Internal Evaluation)	50	50
End Semester Examination (External Evaluation)	50	100
Total	100	150

#### Criteria for Assessment of Project Work

- Interim project report shall be submitted before the project review with the approval of the supervisor. The Project Report prepared according to the approved guidelines and duly signed

by the supervisor and the Head of the Department shall be submitted as per the timeline announced by the department.

- The End Semester Examination for the project work shall consist of an evaluation of the final project report by an external examiner, followed by a viva-voce examination conducted by a committee consisting of the external examiner and an internal examiner. The Controller of Examinations (CoE) shall appoint Internal and External Examiners for the End Semester Examination of the Project Work.
- The Continuous Assessment Marks (CAM) and End Semester Examinations marks (ESM) distribution for the Project Work is given in Table 9.13.

**Table 9.13 (a) CAM and ESM break-up for Project Phase - I**

Sl. No	Description			Weightage
<b>1</b>	<b>Continuous Assessment Marks</b>			
a	Review 1	Review Committee <sup>#</sup>	10	15
		Supervisor	5	
b	Review 2	Review Committee <sup>#</sup>	10	15
		Supervisor	5	
c	Review 3	Review Committee <sup>#</sup>	15	20
		Supervisor	5	
	<b>Total CAM</b>			<b>50</b>
<b>2</b>	<b>End Semester Marks</b>			
a	Evaluation of Phase I report and Viva-voce	Report	15	50
		Presentation and Viva	20	
		Demonstration	15	
	<b>Total ESM</b>			<b>50</b>
	<b>Total Marks</b>			<b>100</b>

**Table 9.13 (b) CAM and ESM break-up for Project Phase - II**

Sl. No	Description			Weightage
1	Continuous Assessment Marks			
a	Review 1	Review Committee <sup>#</sup>	10	15
		Supervisor	5	
b	Review 2	Review Committee <sup>#</sup>	10	15
		Supervisor	5	
c	Review 3	Review Committee <sup>#</sup>	15	20
		Supervisor	5	
	Total CAM			50
2	End Semester Marks			
a	Evaluation of final report and Viva-voce	Report	20	80
		Presentation and Viva	40	
		Demonstration	20	
b	Expected Outcome from the project <sup>##</sup>	Publication / communication of papers / prototypes/ patents etc		20
	Total ESM			100
Total Marks			150**	

<sup>#</sup> Review committee consists of internal faculty members nominated by the Head of the Department. The Supervisor of the student being examined shall not be part of the committee.

<sup>##</sup> Expected Outcome from the project, in terms of paper publication, patents, product development and industry projects shall be awarded based on the document proof submitted by the student concerned

<sup>\*\*</sup> To be weighted for 100 marks

### 9.5. Industrial Training / Internship

- The evaluation of 'Internship' is through internal assessment only (continuous assessment) as per Table 9.14.
- A committee comprising of two faculty members appointed by Head of the Department will assess the internship for 100 marks.

**Table 9.14 Assessment method for Industrial Training / Internship**

Assessment	Continuous Assessment Marks (CAM)		Total Marks
	Report	Presentation	
Marks	50	50	100

**9.6. Ability Enhancement Courses****9.6.1 Skill Enhancement Courses**

- (i) The evaluation of 'Skill Enhancement Courses' is through internal assessment only (continuous assessment) as per Table 9.15.
- (ii) The faculty In-charge will assess the skill Enhancement course for 100 marks, by evaluating the report and adopting any one of the methods like Project Demonstration / presentation / any evaluation method which assess student's specific skill set as relevant to the course.
- (iii) The marks scored in these courses will not be taken into consideration for the SGPA / CGPA calculations in the grade sheet.

**Table 9.15 Assessment method for skill Enhancement courses**

Assessment	Continuous Assessment Marks (CAM)			Total Marks
	Attendance	Report	Presentation/Demo/Skill Test	
Marks	10	40	50	100

**9.6.2. Certification Courses**

- (i) Certification Courses are required to be completed to fulfill the degree requirements. All **Certification** courses are assessed internally for 100 marks as per Table 9.16.
- (ii) The Course coordinator handling the course will assess the student through attendance and MCQ test, and declare the student as "pass" on satisfactory completion. A letter grade "P" is awarded to declare pass.
- (iii) The marks scored in these courses will not be taken into consideration for the SGPA / CGPA calculations in the grade sheet.

**Table 9.16 Assessment method for Certification courses**

Assessment	Continuous Assessment Marks (CAM)		Total Marks
	Attendance	MCQ Test	
Marks	10	90	100

**9.7. Mandatory Courses:**

- (i) Mandatory Courses are required to be completed to fulfill the degree requirements. All Mandatory Courses are assessed internally for 100 marks as per Table 9.17.
- (ii) The faculty In-charge handling the course will assess the student through activities, quizzes and debates and declare the student as "pass" on satisfactory completion. A letter grade "P" is awarded to declare pass.
- (iii) The marks scored in these courses will not be taken into consideration for the SGPA / CGPA calculations in the grade sheet.

**Table 9.17 Assessment method for Mandatory courses**

Assessment	Continuous Assessment Marks (CAM)			Total Marks
	Attendance	MCQ	Presentation	

			<b>Test</b>	<b>/ Activity / Assignment</b>	
	Marks	10	30	60	100

## 10. ELIGIBILITY FOR APPEARING END SEMESTER EXAMINATION

### 10.1 Requirements for Appearing End Semester Examination

The students are expected to maintain 100% attendance in all courses because attendance carries internal marks. A student will be qualified to appear for end semester examinations in a particular course of a semester only if he/she satisfies the below mentioned requirements.

10.1.1. The student is permitted to appear for End Semester Examinations, only if he/she maintains minimum 75% of attendance. If he/she secured attendance greater than or equal to 60 % and less than 75% in the current semester can be considered in case of the following reasons:

- (i) Medical reasons (hospitalization / accident and or illness)
- (ii) Due to participation in sports events or any competitions or NCC and / or NSS activities with prior written permission from the Head of the Institution/Dean Academics through the Head of the Department

He/she has to pay the necessary condonation fee prescribed by the college authority with necessary supporting documents for his/her absence.

10.1.2. The student shall be considered for exemption from the prescribed attendance requirement for the reasons stated above and if exempted, the student shall be permitted to appear for the End Semester Examination of that course. In all such cases, the students should have submitted the required documents on joining after the absence, to the CoE through Head of the Department.

10.1.3. If any student is suspended for any reason during the semester, the days of suspension of a student on disciplinary grounds will be considered as days of absence for calculating the percentage of attendance for each individual course.

### 10.2. Movement to Next Higher Semesters

10.2.1. A student can move to the next semester provided only if he/she fulfills the minimum attendance requirement for appearing in the end semester examination.

10.2.2. The student who has failed to fulfill the above conditions will not be permitted to move to the higher semester, and shall rejoin the programme in the next academic year in the same semester after fulfilling all the requirements as per the regulations.

10.2.3. A student who rejoins the programme after the temporary break shall be governed only by the rules, regulations, course of study and syllabi in force, at the time of rejoining the course.

### 10.3. Provision for Withdrawal from Examination

10.3.1. **Complete Withdrawal (applicable only for nil arrear students):** A student, who is eligible to appear for the semester examinations, will be permitted to withdraw from appearing for the entire End Semester Examinations as one unit (*Complete Withdrawal*) for valid reasons and on the recommendation of the Head of the Department and with the approval of the Dean Academics, CoE and Head of the Institution. Complete Withdrawal application shall be made before the commencement of the first examination pertaining to the semester. Such withdrawal shall be permitted **only once** during the entire programme.

10.3.2. A student who has completely withdrawn from appearing for End Semester Examinations in a particular semester should appear for the examinations of all the withdrawn subjects in the next semester itself.

10.3.3. If all other conditions are satisfactory, the candidate who withdraws is also eligible to be awarded DISTINCTION whereas he/she is not eligible to be awarded a rank.

**10.4. Scribe for End Semester Examination**

10.4.1. If any student is not in a position to write end semester examinations on account of temporary physical disability or injury due to accident and applies for a scribe (writer) with a medical certificate obtained from a medical officer not below the rank of Assistant Director level, then a scribe shall be allowed / assigned by CoE to such student. Normally, such scribe shall neither be a student nor a degree holder of any technical programme having similar competency. The student shall, however, apply in a prescribed proforma to CoE and requesting permission for using the scribe well in advance, not on the day of examination, to make necessary arrangements (Scriber, Separate Examination Hall etc.). CoE shall take the undertaking from the scribe in a prescribed proforma. Such student shall produce the permission letter from the CoE for using scribe to the invigilator. He / She should pay the TA/DA and other charges to the scribe. Scribe shall be allowed extra time as per the norms specified by the Controller of Examinations.

10.4.2. Student admitted with differently abled category and those who can write, but at much slower speed as compared to normal student, he/she may be allowed an extra time of 30 minutes for 50 marks paper and 45 minutes for 75 marks paper to write the examination for all the courses. He / She shall seek permission from CoE for the extra time on account of his/her percentage of disability by producing necessary medical certificate from medical officer not below the rank of Assistant Director.

**10.5. Supplementary Examinations**

Supplementary Examination is an additional examination which will be conducted after declaration of the End Semester Examination results/revaluation results. This examination will be conducted in fifth and eighth semesters for the students who are having a maximum of two arrears overall and he/she is permitted to write maximum of two papers in that semester alone. For supplementary examination, the continuous assessment marks of the last attempt will be considered.

**10.6. Malpractice in Examinations**

If any student caught red-handed due to malpractices in examinations, then he/she shall be punished as per the recommendations of the Complaint Redressal Committee (CRC) constituted by CoE with the approval of Head of the Institution. The CRC shall inquire and decide the punishment for the unfair means as specified in the Examination manual.

**11. REQUIREMENTS FOR PASSING THE EXAMINATION****11.1. A student is declared to have successfully passed a theory based course if he/she has secured:**

A minimum of 40% marks in the End Semester Examinations marks and a minimum of 50% marks on combining both Continuous Assessment Marks (CAM) and End Semester Examination Marks (ESM).

**11.2. A student is declared to have successfully passed a practical / project based course if he/she has secured:**

A minimum of 50% marks in the End Semester Examinations marks and a minimum of 50% marks on combining both Continuous Assessment Marks (CAM) and End Semester Examination Marks (ESM).

**11.3. A student is declared to have successfully passed a theory cum practical based course if he/she has secured:**

A minimum of 50% marks in the End Semester Examinations marks (Theory) and a minimum of 50% marks in the End Semester Examinations (ESE) marks (Practical - Internal evaluation) and a minimum of 50% of marks on combining both Continuous Assessment Marks (CAM) in theory cum practical and End Semester Examination Marks (ESM).

**11.4. For Micro and Mini Project, Industrial Training / Internship, mandatory and Ability Enhancement courses, a student is declared to have successfully passed the course if he/she secured**

minimum of 50% marks in Continuous Assessment Marks (CAM).

## 12. GRIEVANCE REDRESSAL MECHANISM IN EVALUATION

**12.1.** Grievances related to the entire process of Continuous Assessment shall be addressed to Academic Appeal Board as given in Regulations under Clause 19.4.

**12.2.** Grievances related to End Semester Examination of Theory Courses for regular and arrear examinations can be redressed as follows:

### 12.2.1. Photocopy of the Answer Script:

- After declaration of results, photocopy of valued answer scripts with the marks awarded to individual answers shall be made available to the students on submission of an application along with the prescribed fees to the Controller of Examinations.

### 12.2.2. Revaluation:

- Students can apply for revaluation by submitting an application along with the prescribed fees to the Controller of Examinations. The revaluation is extended to the students those who have maximum of two arrears in theory papers.

## 13. LETTER GRADE AND GRADE SHEET

All assessments of a course will be evaluated exactly based on the marks. However, for the purpose of reporting the performance of a candidate, letter grade with grade points will be awarded as per the range given in Table 13.1, based on the percentage of marks obtained by the candidate in each course.

**Table 13.1 Letter Grade with grade points**

S. No	Range of total marks	Letter Grade	Grade Points
1	90 to 100	S	10
2	80 to 89	A	9
3	70 to 79	B	8
4	60 to 69	C	7
5	55 to 59	D	6
6	50 to 54	E	5
7	0 to 49	F*	0
8	Absent	FA*	0
9	Withdrawal from examination	W	0
10	Pass in non-credit course	P	0

\* F – denotes Failure of the course and FA – Failure due to Absent

### 13.1. Grade Sheet

After declaration of results, grade sheets will be issued to each student, which will contain the following details:

- The College Name and Affiliating University.
- The list of courses registered during the semester and the grades scored.
- The Semester Grade Point Average (SGPA) for the semester.
- The Cumulative Grade Point Average (CGPA) of all courses enrolled from first semester onwards.
- On completion of a semester, each student is assigned a Semester Grade Point Average which is computed as below for all courses registered by the student during that semester

$$\text{Semester Grade Point Average (SGPA)} = \frac{\sum_i (C_i \times GP_i)}{\sum_i C_i} \quad i = 1 \text{ to } n;$$

Where n= Number of credit courses in that semester.  $C_i$  is the Credit of  $i^{\text{th}}$  course in that semester and  $GP_i$  is the Grade Point earned by the student for that  $i^{\text{th}}$  course. The SGPA

is rounded off to two decimals.

- The overall performance of a student at any stage of the Degree programme is evaluated by the Cumulative Grade Point Average (CGPA) up to that point of time.

$$\text{Cumulative Grade Point Average (CGPA)} = \frac{\sum_i (C_i \times GP_i)}{\sum_i C_i} \quad i = 1 \text{ to } m;$$

Where m = Number of credit courses from 1<sup>st</sup> semester till the completed semesters, C<sub>i</sub> is the Credit of i<sup>th</sup> course of the completed semesters at that stage and GP<sub>i</sub> is the Grade Point earned by the student for that i<sup>th</sup> course.

### 13.2. Scheme for conversion of CGPA to Percentage (%) marks:

A scheme to convert the Cumulative Grade Point Average (CGPA) to Percentage (%) of marks is shown below:

$$\text{Percentage (\%) marks} = \text{CGPA} \times 10$$

## 14. ELIGIBILITY AND CLASSIFICATION FOR THE AWARD OF DEGREE

A student shall be declared to be eligible for the award of B.Tech. Degree provided for which the student has

- Successfully completed the course requirements and has passed all the prescribed End Semester Examinations in all the eight semesters (six semesters for lateral entry) within a maximum period of 7 years (6 years for lateral-entry) calculated from the commencement of the first semester to regular entry students and third semester for lateral entry students.

### 14.1. Classification of Degree

After successful completion of the programme, degree will be awarded as per the following classifications based on the final CGPA

#### 14.1.1 First class with Distinction

Student who satisfies the following conditions shall be declared to have passed the End Semester Examinations in *First class with Distinction*:

- Students who have successfully completed the programme within eight consecutive semesters (*six consecutive semesters for lateral entry students*) and obtained a final CGPA of 8.5 or above by passing the End Semester Examination in all the courses from first to eighth semester in the *first attempt* will be declared to have passed in **First Class with Distinction**.
- Students who have secured a final CGPA of 8.5 or above but failed to clear the courses offered from first to eighth semester in the first attempt are not eligible for **First Class with Distinction** classification. However, Students who have opted for authorized complete withdrawal (only one time) from examination will also be eligible for **First Class with Distinction** classification but it will not be considered for Ranking.

#### 14.1.2. First class

A student who satisfies all the following conditions shall be declared to have passed the End Semester Examinations in First class:

- Should have passed the examination in all the courses of all eight semesters (6 semesters in the case of Lateral Entry) within Five years (Four years in the case of Lateral Entry). One-year authorized break of study (if availed of) or prevention from writing the End Semester Examination due to lack of attendance (if applicable) is included in the duration of five years (four years in the case of lateral entry)
- Should have obtained a final CGPA not less than 6.5 shall be declared to have passed in **First Class**.
- Students who have lost the eligibility for **First Class with Distinction** classification by failing to clear the courses offered from first to eighth semesters in the first attempt but



securing a final CGPA of 8.5 or above shall also be declared to have passed in **First Class**.

#### 14.1.3. Second class

All other students (not covered in S.No.14.1.1 and 14.1.2 under Clause14.1) who qualify for the award of the degree shall be declared to have passed the examination in Second Class.

#### 14.2. Gold Medals and Ranks

For the Award of Gold Medals and ranks for each branch of study, the CGPA secured from 1<sup>st</sup> to 8<sup>th</sup> semester should be considered and it is mandatory that the candidate should have passed all the subjects from 1<sup>st</sup> to 8<sup>th</sup> semester in the first attempt. Rank certificates would be issued to the first five candidates in each branch of study.

### 15. TEMPORARY BREAK OF STUDY FROM THE PROGRAMME

A student shall be permitted to withdraw temporarily from the college for the reason beyond his/her control. The applicable rules are:

- (i) After withdrawal, the student shall rejoin next year in the same semester during which the student has withdrawn.
- (ii) The student shall apply to Dean Academics through HoD stating the reasons for withdrawal along with supporting documents, consent letter from his/her parent/guardian and clearance/no due from all the concerned departments.
- (iii) Dean Academics shall examine the case and recommend for the approval/ratification from Academic Council (AC) /Academic Standing Committee (ASC).
- (iv) A student availing temporary withdrawal from the college under the above provision shall be required to pay such fees and/or charges as may be fixed by the AC/ASC for his/her name to be enrolled. However, it may be noted that the fees/charges once paid shall not be refundable.
- (v) The total period of completion of the course reckoned from the commencement of the first semester to which the candidate was admitted shall not exceed 7 years for regular entry students and 6 years for lateral entry students in any case including of the period of discontinuance.

### 16. TERMINATION FROM THE PROGRAM

A student shall be terminated from the program in the following cases:

- (i) Involved in ragging and not obeying disciplinary rules structured by college.
- (ii) Not completing the programme in prescribed period; Students shall have to complete B.Tech programme in the maximum period of 7 years (14 semesters) for regular entry and 6 years (12 semesters) for lateral entry from the date of admission. If not completed, Such student will be declared as Failed to Complete Technical Education (FCTE). However, genuine cases with proper justification may be referred to AC for extending programme completion period.

### 17. DISCIPLINE AND CONDUCT

**17.1.** Any act of misconduct committed by a student inside or outside the campus shall be an act of violation of discipline of the college. Violations of the discipline shall include:

- (i) Interference to teaching, examination, administrative work, curricular or extra-curricular activities and any act likely to cause disruption.
- (ii) Damaging or defacing the property inside or outside the college campus.
- (iii) Engaging in any attempt at wrongful confinement of teachers, employees and students of the college.
- (iv) Use of abusive and derogatory slogans or intimidators' language or incitement of hatred and violence.
- (v) Ragging in any form ("Ragging means causing, inducing, compelling or forcing a student whether by way of a practical joke or otherwise to do any act that detracts human dignity or violates person or exposes him to ridicule or to forbear from doing lawful act, by intimidating,



wrongfully re-straining, wrongfully confining or injuring him or by using criminal force to him or by holding out to him any threat of such intimidation, wrongful restraint, wrongful confinement, injury or the use of criminal offense), as per the directions of Supreme Court of India, is a criminal offence.

- (vi) Eve teasing or disrespectful behavior to a student.
- (vii) An assault upon or intimidation of, or insulting behavior towards a teacher, officer, employee or student or any other person.
- (viii) Getting enrolled in more than one programme /course of study simultaneously.
- (ix) Committing forgery, tampering the documents or records, identity cards, furnishing false certificate or false information.
- (x) Organizing instant agitation/meetings without prior permission in the campus.
- (xi) Viewing/downloading offensive information/data, images and executable files, sending obscene mails/messages via Facebook / twitter / other social sites using college servers/personal electronic gadgets in the college premises.
- (xii) Sharing the login and password and other details of IT facilities provided to other outside students.
- (xiii) Refusing to provide an identity card when demanded by any teacher / college authority.
- (xiv) Consuming or possessing alcoholic drinks, dangerous drugs or other intoxicants in the college campus.
- (xv) Possessing or using any weapons and fire arms in the college campus.
- (xvi) Encroachment of hostel, accommodating guests or other persons in hostels without permission.
- (xvii) Malpractice in examination
- (xviii) Indulging in anti-national activities contrary to the provisions of acts and laws enforced by Government.
- (xix) Any other act which may be considered by the Head of the Institution or the Discipline Committee to be an act of violation of discipline.

**17.2.** Any act of indiscipline of a student reported to the Head of the Institution shall be referred to Disciplinary Committee of the college. The Committee shall enquire into the charges and recommend suitable punishment if the charges are substantiated. The penalties / punishment / actions may include:

- (i) Written warning and information to the parents / guardian.
- (ii) Imposition of fine
- (iii) Suspension from the College / Hostel / Mess / Library or availing of any other facility.
- (iv) Suspension or cancellation of scholarship/fellowship / studentship or any financial assistance from any source.
- (v) Recover of loss caused to college property.
- (vi) Debarring from participation in sports / NSS / student club activities.
- (vii) Disqualifying from holding any representative position in the Class / College / Hostel / Mess / Sports / Clubs and in similar other bodies.
- (viii) Disqualifying from appearing in placement and receiving any awards.
- (ix) Expulsion from the Hostel / Mess / Library / Club / College for a specified period by forfeiting fees.
- (x) Debarring from appearing for an end semester examination.

**17.3.** Student(s) involved in any act of indiscipline / malpractice in examination shall be issued notice to him/her, asked to be present before the Complaint Redressal Committee (CRC) on the day at specified time and venue with his/her parents / guardian. He / She shall give written reply / oral explanation to the charges levied against him/her for consideration. If the implicated student(s) fails to appear before the committee, then decision shall be taken as absent, on the basis of available evidence / documents which shall be binding on the concerned student.

- 17.4.** Every admitted student shall be issued photo identification (ID) card which must be worn by the students when he/she is inside in the college campus / college bus.

## **18. ACADEMIC CALENDAR**

- 18.1.** The academic activities of the college shall be governed by the academic calendar prepared for each academic semester and approved by the AC/ASC. It shall be notified at the beginning of each academic semester. Academic calendar shall incorporate schedule of admission, course registration, course delivery, examination/evaluation, course feedback, course/graduate exit survey, co-curricular activities, compensation of holidays in case of academic loss, meetings (AC, ASC, IQAC, BoS, and Alumni), Academic audit and vacation.
- 18.2.** The curriculum shall be typically delivered in two semesters in an academic year. Each semester shall be of 20 weeks (approximately 100 working days) duration, including evaluation, grade moderation and result declaration. Generally, 14-16 weeks for course content delivery and 4-6 weeks for examination /evaluation shall be assigned in each semester. The academic session in each semester shall provide at least 75 teaching days with 40 hours per week. The odd and even semesters of an academic year normally begin from second week of June and second week of December respectively.
- 18.3.** The academic calendar should be strictly adhered to all other activities including co-curricular and extra-curricular activities that should be scheduled so as not to interfere with the curricular activities as stipulated in the academic calendar.

## **19. VARIOUS COMMITTEES AND ITS FUNCTIONS**

### **19.1. Academic Council (AC)**

#### **Composition of Academic Council:**

- (a) The Principal (Chairman)
- (b) All the Heads of Departments in the Autonomous College
- (c) Four teachers of the Autonomous College representing different categories of teaching staff by rotation on the basis of seniority of service in the College.
- (d) Not less than four experts/academicians from outside the Autonomous College representing such areas as Industry, Commerce, Law, Education, Medicine, Engineering, Sciences, etc., are to be nominated by the Governing Body.
- (e) Three nominees of the University, not less than Professors.
- (f) The Controller of Examination of the Autonomous College
- (g) A faculty member nominated by the Principal (Member Secretary).

**Term:** The term of the nominated members shall be three years.

**Meetings:** Meetings of the Academic Council shall be held at least once every six months.

#### **Functions of the Academic Council:**

- (a) To scrutinize and approve the proposals with or without modification of the Board of Studies with regard to courses of study, academic regulations, curricula, syllabi and modifications thereof, instructional and evaluation arrangements, methods, procedures relevant thereto, etc., provided that where the Academic Council differs on any proposal, it shall have the right to return the matter for reconsideration to the Board of Studies concerned or reject it, after giving reasons to do so.
- (b) To make regulations regarding the admission of students to different programmes of study in the Autonomous College, keeping in view the policy of the Government.
- (c) To make regulations for sports, extra-curricular activities, and proper maintenance and functioning of the playgrounds and hostels.
- (d) To recommend to the Governing Body proposals for the institution of new programmes of study.
- (e) To recommend to the Governing Body institution of scholarships, studentships, fellowships, prizes, and medals, and to frame regulations for the award of the same.
- (f) To advise the Governing Body on suggestions(s) pertaining to academic affairs.
- (g) To perform such other functions as may be assigned by the Governing Body.

**19.2. Board of Studies (BoS)****Composition of Board of Studies:**

- (a) Head of the Department concerned (Chairperson).
- (b) All faculty members of the Department.
- (c) Two subject experts from outside the parent University are to be nominated by the Academic Council.
- (d) One expert is to be nominated by the Vice-Chancellor from a panel of six recommended by the Autonomous College Principal.
- (e) One representative from industry/corporate sector/allied areas to be nominated by the Principal.
- (f) One member of the College alumni to be nominated by the Principal.
- (g) Experts from outside the Autonomous College, whenever special courses of studies are to be formulated, to be nominated by the Principal.

**Term:** The term of the nominated members shall be three years.

**Meetings:** Meetings of the Board of Studies shall be held at least once every six months.

**Functions:**

The Board of Studies shall recommend the following to the Academic Council:

- (a) Courses of studies
- (b) Measures for the improvement of the standards of teaching and research
- (c) Any other academic matter.

**19.3. Academic Standing Committee (ASC)**

Composition of Academic Standing Committee is same as that of AC, except external members. ASC shall perform the functions under emergency situations subject to ratification by the AC.

**19.4. Academic Appeal Board (AAB)**

The Academic Appeal Board is constituted with Dean Academics as convener and two senior level professors as members, and the concerned Head of the Department and Class Advisor as co-opted members. The board will receive the grievances/complaints in writing from the aggrieved student regarding anomaly in award of marks. The board will examine the complaints and recommend appropriate measures to the Head of the Institution, for necessary action.

The entire process of Continuous Assessment shall be made transparent, in which students can get the explanation of marks being awarded from the course instructor, if and when required. However, if a student finds some anomaly in the award of marks in the continuous assessment, he/she can make an appeal to the *Academic Appeal Board* for review of marks awarded. Before appealing for such review, a student shall first approach the concerned Course Instructor and then the concerned Head of the Department, with a request to do the needful. Only after exhausting the above options and in situations where satisfactory actions / remedial measures have not been taken, the student may appeal to the Academic Appeal Board.

**19.5. Department Advisory Committee (DAC)**

DAC is another basic constituent of the academic system of an autonomous college. The composition and functions of the DAC are given below:

- (a) Chairperson: Head of the concerned Department
- (b) Internal Members: Two senior faculty members of the department
- (c) Industry Representative: One representative from industry/corporate sector / is related to the placement
- (d) One academician from other Institution

- (e) One meritorious alumnus
- (f) One parent
- (g) One student
- (h) Member secretary: Programme Academic Coordinator

**Term:** The term of the nominated members shall be three years.

**Meetings:** The meeting may be scheduled as and when necessary, but at least twice a year.

#### **Functions of DAC**

The DAC of a department in the college shall

- (a). Formulate a process to review post implementation effects of curriculum.
- (b). Suggest measures to ensure academic standard and excellence of the course offered by the department.
- (c). Suggest the methodologies for innovative teaching and evaluation techniques; enhancement of industry institute interaction.
- (d). Identify and recommend the record of new programme.
- (e). Review target set for attainment of course outcomes and programme outcomes.
- (f). Guide and provide support to department for enhancing interaction with outside world.
- (g). Plan strategically to enhance the academic quality of department.
- (h). Resolve the address issues expressed by the stakeholders through feedback.
- (i). Defining and redefining the Programme Educational Objectives (PEOs) and Programme Outcomes (POs) based on the recommendations by department academic committee.
- (j). Study the achievement of PEOs and POs reported by department evaluation committee and suggest measures for improvement.

### **19.6. Board of Examinations (BoE)**

#### **Composition of BoE**

- (a) Head of the Institution (Chairperson)
- (b) Dean Academics
- (c) Controller of Examination(CoE): Member Secretary
- (d) One expert possessing ten years of industrial/ field experience nominated by the Chairman
- (e) Coordinators (Examinations, Assessment, Results and Tabulation)

#### **Functions of BoE:**

- (a). The BoE shall
  - i. Ensure proper performance of the various duties in conducting examinations viz. paper setting, time table preparation, assessment and declaration of results.
  - ii. Recommend examination reforms and shall implement after the approval of academic council.
  - iii. Prepare the detailed time table of examinations as per the schedule approved by academic council.
  - iv. Arrange for strict vigilance during the conduct of examination so as to avoid use of unfair means by the students, faculty and invigilators.
- (b). Chairman, BoE shall constitute Complaint Redressal Committee (CRC) consisting of three members as and when required to deal with the complaints related to the conduct of examinations.
- (c). The recommendations of the CRC shall be approved by Chairman for the BoE to take

appropriate disciplinary actions in the concerned matter. The disciplinary actions shall be endorsed by the BoE.

- (d). The BoE shall perform duties and responsibilities that are assigned by Academic Council of the institute from time to time.

#### **19.7. Department Consultative Committee (DCC)**

##### **Composition of DCC**

- (a) Head of Department (Chairperson)
- (b) Five faculty members (at least one from each specialization) nominated by HOD
- (c) Member Secretary: Programme Academic Coordinator / Programme Evaluation Coordinator

##### **Functions of DCC**

- (a). Review, revise and prepare curriculum structure based on institutional policy, suggest improvements in syllabus of a course/s prepared by course teacher/s and forward the curriculum to BoS for further recommendations.
- (b). Check appropriateness of course objectives, course outcomes, and mapping of COs with POs and suggest necessary improvements/modifications.
- (c). Monitor the academic progress throughout the semester, conduct of classes and take appropriate corrective measures to improve the quality of curriculum delivery.
- (d). Review academic performance of students.
- (e). Counsel the concerned course teachers for improvement based on student feedback, academic and question paper audit reports.
- (f). Verify the attainment level of course outcomes and programme outcomes.
- (g). Formulate strategy to collect feedback from stake holders, analyze the collected feedback and forward the analysis to DAC.
- (h). Contribute to maintain academic standard as well as improving the quality of the courses offered by the department and enhance industry–institute interaction.
- (i). Suggest open and professional electives considering societal needs.
- (j). Recommend methodologies for innovative teaching and evaluation techniques to BoS.
- (k). Coordinate research, teaching, extension and other academic activities in the department/college.
- (l). Carry out preparatory work for defining /redefining the Programme Educational Objectives (PEOs) and Programme Outcomes (POs) periodically.
- (m). Monitor evaluation of course attainments leading to achievement of programme outcomes and report the results of assessment to BoS.

#### **19.8. Programme Academic Coordinator (PAC)**

##### **The functions and duties of PAC are:**

- (a). Coordinating all academic activities of the department viz Curriculum revision, framing of syllabus, time table, member secretary for BoS meeting, re-registration of course/s, display and submission of attendance status.
- (b). Conducting internal academic audit and department advisory committee meeting as a member secretary.
- (c). Monitoring the academic activities and conduct of classes.
- (d). Extending necessary help to department academic and evaluation committee.
- (e). Recording and forwarding all academic related documents to Dean Academics.
- (f). Working in association with Dean Academics.

**19.9. Department Evaluation Coordinator (DEC)****The functions and duties of DEC are:**

- (a). Conduct course and graduate exit survey, make arrangements for feedback from stakeholders (industry/employer/alumni/student) and feedback analysis.
- (b). Monitor the assessment of course outcome.
- (c). Compute / assess / evaluate the achievement of PEOs and POs as per NBA/NAAC requirements.
- (d). Compile the information required for the preparation of Annual Quality Assurance Report (AQAR) by the Internal Quality Assurance Cell (IQAC).
- (e). Extend necessary help to department academic and evaluation committee.

**19.10. Class Advisor**

Head of the Department will allot one faculty member to be the class advisor for a particular batch of students throughout their period of study. The role of class advisors is as follows:

- (a) To motivate and closely monitor the performance of the students.
- (b) To maintain all important documents of the students for reference/inspection by all committees.
- (c) To work closely with the student counselors on matters related to students and update the details from time to time in student's profile for further reference.
- (d) To build a strong alumni base for the institution by maintaining a possible rapport with students and parents.

**19.11. Student Counselor (Mentor)**

By guiding and counseling students, faculty can create a greater sense of belongingness amongst the student community. To help the students in planning their courses and for general guidance on the academic programme, the Head of the Department will allot a certain number of students to a teacher of the department who shall function as student counselor throughout the period of study.

The student counselor will guide / monitor the courses chosen by the students, check attendance and progress of the students and counsel them periodically. The student counselors should ensure that each student is made aware of the various options for progress. Students are monitored and guided to become overall performers. Students can select and work for career choices of their interest. The student counselors shall update and maintain the student counselor record of each student under his guidance attached to them. The student counselors shall also help the class advisors to update the students details attached to them.

The student counselor may also discuss with the class advisor, HoD and parents about the progress of the students.

**19.12. Quality Circle Meeting (QCM)**

Every class will have a class committee constituted by the HoD to discuss about the various Academic activities through Quality Circle Meeting (QCM). The members of the class committee will be as follows:

- (a) Chairperson (a senior faculty who is preferably not teaching any course for the class)
- (b) All the course handling staff of the class
- (c) Students (a minimum of 6 consisting of 3 boys and 3 girls on pro-rata basis)

**Functions****The functions of the QCM shall include the following: -**

- (a). Clarify the regulations of the programme and the details of rules therein.
- (b). Inform the student representatives about the academic schedule including the dates of



assessments and the syllabus coverage for each assessment.

- (c). Inform the student representatives about the details of Regulations regarding marks assigned for each assessment. In the case of practical courses (laboratory/ drawing / project work / seminar etc.) the breakup marks for each experiment / exercise / module of work, should be clearly discussed in the class committee meeting and informed to the students
- (d). Analyze the performance of the students of the class after each assessment test and initiate steps for improvement.
- (e). Identify slow learners, if any, and request the faculty concerned to provide additional help / guidance / coaching to such students.
- (f). Discuss and sort out problems experienced by students in the classroom and in the laboratories.
- (g). The class committee shall be constituted within the first week of the commencement of any semester.
- (h). The chairperson of the class committee may invite the class advisor / student counselor and the Head of the Department to the meeting of the class committee.
- (i). The Head of the Institution may participate in any class committee meeting.
- (j). The chairperson is required to prepare the minutes of every meeting, submit the same through the Head of the Department to the Principal within two days of the meeting and arrange to circulate the same among the students and faculty concerned. Points requiring action by the management shall be brought to the notice of the management by the Principal.

### Meetings

Quality Circle Meeting (QCM) are to be conducted as scheduled below.

Meeting 1	One week before the 1 <sup>st</sup> assessment test
Meeting 2	One week before the 2 <sup>nd</sup> assessment test
Meeting 3	One week before the 3 <sup>rd</sup> assessment test

During the first meeting of the class committee, the students are to be informed about the assessment procedure as per the framework of the Regulations. During these meetings the student representatives shall meaningfully interact and express opinions and suggestions of the students of the class to improve the effectiveness of the teaching-learning process.

### 19.13. Course Committee for Common Courses

Each common theory / laboratory course offered to more than one class / branch shall have a Course Committee, comprising all the faculties who are teaching the common courses and one of them is nominated as a Course Coordinator.

Sl. No	Nature of common courses	Person Responsible for Forming Course Committee and Nominating Course Coordinator
1	For common courses handled in a particular department	Respective HoD
2	For common courses handled in more than one department	Controller of Examinations (CoE) inform the course committee details to the Principal to get approval for the same and intimate to the concerned faculty

The course committee will ensure that a common question paper is prepared for the tests / exams and uniform evaluation is to be carried out. The Course committee will meet a minimum of 3 times in each semester. The schedule for the course committee to meet is as follows.

Meeting 1	One week before the beginning of the semester
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Meeting 2	One week before the 1 <sup>st</sup> assessment test
Meeting 3	One week before the 2 <sup>nd</sup> assessment test

## 20. REVISION OF REGULATIONS AND CURRICULUM

The college may revise, amend or change the regulations of curriculum and syllabi from time to time as and when found necessary as per the requirements of Industry.





**SRI MANAKULA VINAYAGAR**  
**ENGINEERING COLLEGE**  
(An Autonomous Institution)

Puducherry

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**Regulations**  
**for**  
**B. Tech. with Honours / Minor Degree Programmes**

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## Regulations for B.Tech with Honours / Minor Degree Programme in Engineering Discipline

### Introduction

Students are permitted to opt for an Honours or Minor degree in addition to the degree in their core engineering discipline. The student is required to earn an additional 18 to 20 credits (over and above the total 165 to 170 credits prescribed in the curriculum as stated by AICTE) starting from fourth semester to eighth semester and become eligible for the award of Honours Degree. This option can be chosen from the fourth semester onwards, based on academic performance up to the third semester. Students admitted through lateral entry may choose this option at the end of the third semester, based on the GPA obtained in the third semester examination. The regulations for the Honours/Minor degree programme are as follows:

### I. Regulations for B. Tech. with Honours Degree Programme in Engineering Discipline

**H1. Preamble:** These regulations governing the award of 'Honours' in B.Tech. degree programmes have been formulated in accordance with the provisions outlined in the AICTE model curriculum for undergraduate programmes in Engineering and Technology. The aim of these provisions is to facilitate the recognition and award of higher qualifications to well-performing undergraduate students who earn additional credits within the same time frame for their programme. In adopting these provisions, the institution has taken necessary measures to ensure that the quality and standard of the degree awards remain uncompromised and continue to meet the highest standards.

**H2. Objective:** To provide students with a deeper understanding of their chosen field, and to help them develop expert knowledge and skills.

#### H3. Eligibility Criteria

- (i) Students shall be given the option to earn extra credits toward obtaining an Honours Degree in Engineering Programme, starting from the fourth semester, based on their academic performance up to the third semester. Students admitted in the second year through the Lateral Entry Scheme shall also be eligible to opt for the Honours Degree.
- (ii) A student is eligible to **choose this option** if he/she has passed all the courses offered by this Institution upto third semester in the first attempt itself and has earned a **CGPA / GPA\* (\*for Lateral Entry) of not less than 8.0**.

#### H4. Registering and selection for a Honours degree Programme

- (i) **Consultation:** Interested students should consult with their assigned Class Advisor/Programme Academic Coordinator/HoD to discuss their eligibility and programme details.
- (ii) The minimum number of students enrolled in fourth semester for the honours Degree programme shall be decided by the respective departments. Also, students have to pay fees for pursuing the courses for honours Degree programme.
- (iii) **Application Submission:** After consultation, students have to submit their application through the respective department.
- (iv) **Departmental Submission:** Departments will compile a consolidated list of applicants and forward it to the Office of the Controller of Examinations through Dean Academics and Head of the Institutions for verification.

#### H5. Registration and Enrollment of Courses

- (i) The process of signing-up for courses is called 'Registration'. Students are enrolled after they pay the prescribed fees. The selected students enrol into the Honours degree programme by paying the prescribed fee for the course in the consecutive semesters from 4<sup>th</sup> to 8<sup>th</sup>.

- (ii) The student is permitted to register for maximum of 1 course per semester from the Honours degree curriculum, over and above the maximum credits permitted for a Major degree of study.
- (iii) For a student to attend classes he/she must necessarily complete both registration and enrolment. All students shall formally register for the course in a particular semester to undergo their learning course for honour degree programme. The registration sheet contains the course code, course title, number of credits earned till date, number of credits opted for honours degree programme in the current semester, and the remaining number of credits to earn for the award of the degree.

#### H6. Programme structure of a Honours Degree

- (i) The student is required to earn an additional 18 to 20 credits (over and above the total 165 to 170 credits prescribed in the curriculum as stated by AICTE) starting from fourth semester onwards to become eligible for the award of Honours Degree. 18 to 20 credits shall be earned by the student by completing 6 additional courses offered from 4<sup>th</sup> to 8<sup>th</sup> semesters.
- (ii) The student shall be given an option to earn 3 credits through 12 week NPTEL course (equivalent) instead of any one course among 3 theory courses listed for Honours Degree programme by the respective department and shall be completed prior to the commencement of 8<sup>th</sup> semester.
- (iii) The CGPA for the major B.Tech. degree programme will be calculated excluding the credits earned by the student for the courses undertaken under the Honours Degree programme.
- (iv) Details about the courses completed and credits earned for Honours Degree will appear in a 'Consolidated Grade Sheet'.
- (v) The courses completed under Honours degree programme will be listed under the heading 'Credits Earned for Honours Degree'. In the case of students who either withdraw from Honours Degree or become ineligible for Honours Degree by not securing **8.5 CGPA (First Class with Distinction)**, the credits earned for the courses registered and successfully completed for Honours Degree will be listed under the heading '**Additional credits earned**'.

#### H7. Duration of the Honours degree programme

All the courses for the honours degree programme to be completed between 4<sup>th</sup> to 8<sup>th</sup> semesters in the first attempt during the normal duration of study of the major degree programme as per the regulations.

#### H8. Dropping of a honours

- (i) A student can choose the option to withdraw from the Honours Degree at any time after entry during the course of time. But amount paid will not be refunded.
- (ii) Student having backlogs in any of regular semester courses at any stage will not be eligible to continue the Honours Degree Programme.
- (iii) If a student fails in any course of the Honours, he/she shall not be eligible to continue the Honours Degree Programme. There is no option for supplementary examination for the courses chosen for Honours Degree. However, the students are eligible to claim for photocopy of the answer script and Revaluation as per clause 12.2 of B. Tech Regulations R-2023. Also, the additional credits and grades earned so far by the student will be listed under the heading '**Additional credits earned**'.

#### H9. Attendance

A student must maintain an attendance record of at least 75% in individual courses, exclusive of leave of absence due to medical reasons, on-duty, extracurricular/ extramural activities, permitted assignments such as job interviews, unforeseen emergencies etc. Without the minimum attendance of 75%, in any course, students become ineligible to appear for the end semester examination in that course. His / Her registration for that course will be treated as cancelled. A student who was ineligible to appear for the examination in a course due to lack of attendance shall not be permitted to retake that course. In such a case a student must drop the Honours programme.

**H10. Assessment and Examinations**

- (i) The total marks for each course comprising of two components namely Continuous Assessment Marks (CAM) and End Semester Examination Marks (ESM). Assessment and Examination procedures for the theory courses, theory cum practical and project courses under Honours Degree programmes shall be assessed as per Table H1, H2 and H3.

**Table H1. Assessment Procedure for theory courses for Honours Degree Programmes**

	Continuous Assessment Marks (CAM)					End Semester Examination <sup>##</sup>	Total Marks (CAM+ESM)
	CAT 1	CAT 2	Model <sup>##</sup>	Assignment <sup>#</sup>	Attendance <sup>##</sup>		
Portion for Test	2 Units	2 Units	All 5 Units			All 5 Units	
Assessment Methodology	MCQ Test	MCQ Test	Written Exam	Individual Task #		Written Exam	
	50 Questions for Analytical Course 75 Questions for Theory Course						
Duration of the Test	1 hour 30 Minutes	1 hour 30 Minutes	3 hours			3 hours	
Test Marks	50	50	75	20	5	75	
Weightage for CAM	5	5	5	5	5		
CAM / ESM	CAM = 25					ESM = 75	100

# Open Book Analytical Exam/Analyse Real world problems and propose solutions/ Tool or Subject Proficiency Analysis – Test the Students skill by giving individual task/ Paper Presentation/Micro Project Presentation/Idea Presentation for the Societal Problem ;( Questions standard shall be of level 3 or more in Blooms Taxonomy)

## Distribution of Marks for Attendance, the Question Paper Pattern for Model and ESE are same as given in B. Tech. Regulations R2023 for Theory Courses **under clause 9.1.**

**Table H2. Assessment procedure for theory cum practical courses for Honours Degree Programmes**

Assessment	Continuous Assessment Marks (CAM)									End Semester Examination Marks (ESM) (Practical)	##End Semester Examination (Theory)	Total Marks (CAM+ ESM)
	Continuous Assessment (Theory)					Continuous Assessment (Practical)						
	CAT 1	CAT 2	Model ##	Attendanc e##	Tot al	Conducti on of Practical	Report	Viva	To tal			
Portion for Test	1 ½ Units	1 ½ Units	All 3 Units							Practical Exam	All 3 Units	
Assessment Methodology	MCQ Test	MCQ Test	Written Exam								Written Exam	
	50 Questions for Analytical Course 75 Questions for Theory Course											
	Duration of the Test	1 hour 30 Minutes	1 hour 30 Minutes			3 hours		3 hours	3 hours			
Marks	50	50	75			5	15	10	5	30 *	30	
Weightage of CAM	2.5	2.5	2.5	2.5	10	*To be weighted for 10 Marks			10			
CAM / ESM	CAM =10+10 = 20									ESM (Practical)= 30	ESM (Theory) = 50	100

## Distribution of Marks for Attendance, the Question Paper Pattern for Model and ESE are same as given in B. Tech. Regulations R2023 for Theory cum practical Courses **under clause 9.3.**

- (ii) **Project Evaluation:** The project evaluation shall be carried out by a Project evaluation committee comprising the Head of the Department or his/her nominee (Chairperson), Project coordinator (Professor / Associate Professor) and the project guide(s) as per the evaluation given in table H3.

**Table H3. CAM and ESM break-up for Project Work**

Sl. No	Description			Weightage
<b>1</b>	<b>Continuous Assessment Marks</b>			
a	Review 1	Review Committee	15	25
		Supervisor	10	
b	Review 2	Review Committee	15	25
		Supervisor	10	
	<b>Total CAM</b>			<b>50</b>
<b>2</b>	<b>End Semester Marks</b>			
a	Evaluation of project work report and Viva-voce	Report	15	50
		Presentation and Viva	20	
		Demonstration	15	
	<b>Total ESM</b>			<b>50</b>
	<b>Total Marks</b>			<b>100</b>

#### H11. Minimum passing requirement and grading

- (i) **A student is declared to have successfully passed a theory-based course if he/she has secured:**

A minimum of 40% marks in the End Semester Examinations and a minimum of 50% marks on combining both Continuous Assessment Marks (CAM) and End Semester Examination Marks (ESM).

- (ii) **A student is declared to have successfully passed a theory cum practical based course if he/she has secured:**

A minimum of 50% marks in the End Semester Examinations (ESE- Theory) and a minimum of 50% marks in the End Semester Examinations (ESE-Practical) and a minimum of 50% marks on combining both Continuous Assessment Marks (CAM) and End Semester Examination Marks (ESM).

- (iii) **A student is declared to have successfully passed a project-based course if he/she has secured:**

A minimum of 50% marks in the End Semester Examinations and a minimum of 50% marks on combining both Continuous Assessment Marks (CAM) and End Semester Examination Marks (ESM).

- (iv) All assessments of a course will be evaluated exactly based on the marks. However, for the purpose of reporting the performance of a candidate, letter grade with grade points will be awarded as per the range given in Table 13.1 under clause 13 of B.Tech Regulations R-2023, based on the percentage of marks obtained by the candidate in each course.

#### H12. Academic Dishonesty

When a student is found responsible for a violation of the SMVEC code of conduct pertaining to academic dishonesty (Malpractice in Examinations), the Office of Controller of Examinations will initiate action based on the pre-approved procedures. Appropriate penalty or punishment will be awarded to the student.

**H13. Award of Honours degree**

- (i) A student is eligible to get the Honours Degree only on completing the programme in 'First Class with Distinction' (As per B. Tech Regulations R-2023, Clause 14.1.1(i), Students who have successfully completed the programme within eight consecutive semesters (six consecutive semesters for Lateral Entry students) and obtained a final CGPA of 8.5 or above by passing the End Semester Examination in all the courses from first to eighth semester in the first attempt will be declared to have passed in First Class with Distinction)
- (ii) Nomenclature of Honours Degree is 'B.Tech.(Hons.) in XXX with specialization in YYY', where XXX is Degree in which the student is enrolled and YYY is the Honours Degree specializations.

## **II. Regulations for B. Tech. with Minor Degree Programme in Engineering discipline**

**M1. Preamble**

These regulations governing the award of a 'Minor' in B.Tech. degree programmes have been framed in accordance with the provisions outlined in the AICTE model curriculum for undergraduate programmes in Engineering and Technology. These provisions are intended to facilitate the award of additional qualifications and recognition to well-performing undergraduate students who earn extra credits within the regular duration of the programme. In adopting these provisions, the institution has taken appropriate measures to ensure that the quality and standards of the degree awards are not compromised and continue to be maintained at a high level.

**M2. Objective:** To allow students to gain additional knowledge in a secondary field of study that complements their major, enhancing their skillset and employability by providing expertise in a related area.

**M3. Eligibility Criteria**

- (i) Students shall be given the option to earn extra credits toward obtaining a Minor Degree in Engineering Programme, starting from the fourth semester, based on their academic performance up to the third semester. Students admitted in the second year through the Lateral Entry Scheme shall also be eligible to opt for the Minor Degree.
- (ii) A student is eligible to **choose this option** if he/she has passed all the courses offered by this Institution upto third semester in the first attempt itself and has earned a **CGPA / GPA\* (\*for Lateral Entry) of not less than 8.0.**

**M4. Registering and selection for a Minor degree Programme**

- (i) **Consultation:** Interested students should consult with their assigned Class Advisor/Programme Academic Coordinator/HoD to discuss their eligibility and programme details.
- (ii) The minimum number of students enrolled in fourth semester for the Minor Degree programme shall be decided by the respective departments. Students can enroll for the Minor Degree programme by paying the prescribed registration fee fixed by the Institution. Also, students have to pay fees for pursuing the courses for Minor Degree programme.
- (iii) **Application Submission:** After consultation, students have to submit their application through the respective department.
- (iv) **Departmental Submission:** Departments will compile a consolidated list of applicants and forward it to the Office of the Controller of Examinations through Dean Academics and Head of the Institution for verification.



**M5. Registration and Enrollment of Courses**

- (i) The process of signing-up for courses is called 'Registration'. Students are enrolled after they pay the prescribed fees. The selected students enrol into the Minor degree programme by paying the prescribed fee for the course in the consecutive semesters from 4<sup>th</sup> to 8<sup>th</sup>.
- (ii) The student is permitted to register for maximum of 1 course per semester from the Minor degree curriculum, over and above the maximum credits permitted for a Major degree of study.
- (iii) For a student to attend classes he/she must necessarily complete both registration and enrolment. All students shall formally register for the course in a particular semester to undergo their learning course for Minor degree programme. The registration sheet contains the course code, course title, number of credits earned till date, number of credits opted for minor degree programme in the current semester, and the remaining number of credits to earn for the award of the degree.

**M6. Programme structure of a Minor Degree**

- (i) The student is required to earn an additional 18 to 20 credits (over and above the total 165 to 170 credits prescribed in the curriculum as stated by AICTE) starting from fourth semester onwards to become eligible for the award of Minor Degree. 18 to 20 credits shall be earned by the student by completing 6 additional courses offered from 4<sup>th</sup> to 8<sup>th</sup> semesters.
- (ii) The student shall be given an option to earn 3 credits through 12 week NPTEL course (equivalent) instead of any one course among 3 theory courses listed for Minor Degree programme by the respective department and shall be completed prior to the commencement of 8<sup>th</sup> semester.
- (iii) The CGPA for the major B.Tech. degree programme will be calculated excluding the credits earned by the student for the courses undertaken under the Minor Degree programme.
- (iv) Details about the courses completed and credits earned for Minor Degree will appear in a 'Consolidated Grade Sheet'.
- (v) The courses completed under the Minor Degree programme will be listed under the heading '**Credits earned for Minor Degree**'. In the case of students who either withdraw from the Minor Degree programme or become ineligible due to failure in any course of the Minor programme, the credits earned for the courses registered and successfully completed will be listed under the heading '**Additional credits earned**'.

**M7. Duration of the Minor degree programme**

All the courses for the Minor degree programme to be completed between 4<sup>th</sup> to 8<sup>th</sup> semesters in the first attempt during the normal duration of study of the major degree programme as per the regulations.

**M8. Dropping of a Minor**

- (i) A student can choose the option to withdraw from the Minor Degree at any time after entry during the course of time. But amount paid will not be refunded.
- (ii) Student having backlogs in any of regular semester courses at any stage will not be eligible to continue the Minor Degree Programme.
- (iii) If a student fails in any course of the Minor, he/she shall not be eligible to continue the B. Tech Minor Degree Programme. There won't be any supplementary examination for the courses chosen for Minor Degree. However, the students are eligible to claim for photocopy of the answer script and Revaluation as per clause 12.2 of B. Tech Regulations R-2023. Also, the additional credits and grades earned so far by the student will be listed under the heading 'Additional credits earned'.

**M9. Attendance**

A student must maintain an attendance record of at least 75% in individual courses, exclusive of leave of absence due to medical reasons, on-duty, extracurricular/ extramural activities, permitted assignments such as job interviews, unforeseen emergencies etc. Without the minimum attendance



of 75%, in any course, students become ineligible to appear for the end semester examination in that course. A student who was ineligible to appear for the examination in a course due to lack of attendance shall not be permitted to retake that course. In such a case a student must drop the Minor programme.

### M10. Assessment and Examinations

The total marks for each course comprising of two components namely Continuous Assessment Marks (CAM) and End Semester Examination Marks (ESM). Assessment and Examination procedures for the theory courses, theory cum practical and project courses under Minor Degree programmes shall be assessed as per Table M1, M2 and M3.

**Table M1. Assessment Procedure for theory courses for Minor Degree Programmes**

	Continuous Assessment Marks (CAM)					End Semester Examination <sup>##</sup>	Total Marks (CAM+ESM)
	CAT 1	CAT 2	Model <sup>##</sup>	Assignment <sup>#</sup>	Attendance <sup>##</sup>		
Portion for Test	2 Units	2 Units	All 5 Units			All 5 Units	
Assessment Methodology	MCQ Test	MCQ Test	Written Exam	Individual Task #		Written Exam	
	50 Questions for Analytical Course 75 Questions for Theory Course						
Duration of the Test	1 hour 30 Minutes	1 hour 30 Minutes	3 hours			3 hours	
Test Marks	50	50	75	20	5	75	
Weightage for CAM	5	5	5	5	5		
CAM / ESM	CAM = 25					ESM = 75	100

# Open Book Analytical Exam/Analyse Real world problems and propose solutions/ Tool or Subject Proficiency Analysis – Test the Students skill by giving individual task/ Paper Presentation/Micro Project Presentation/Idea Presentation for the Societal Problem;(Questions standard shall be of level 3 or more in Blooms Taxonomy)

## Distribution of Marks for Attendance, the Question Paper Pattern for Model and ESE are same as given in B. Tech. Regulations R2023 for Theory Courses **under clause 9.1.**

**Table M2. Assessment procedure for theory cum practical courses for Minor Degree Programmes**

Assessment	Continuous Assessment Marks (CAM)									End Semester Examination Marks (ESM) (Practical)	##End Semester Examination (Theory)	Total Marks (CAM+ ESM)
	Continuous Assessment (Theory)					Continuous Assessment (Practical)						
	CAT 1	CAT 2	Model ##	Attendance ##	Tot al	Conducti on of Practical	Repo rt	Viv a	Tot al			
Portion for Test	1 ½ Units	1 ½ Units	All 3 Units							Practical Exam	All 3 Units	
Assessment Methodology	MC Q Test	MCQ Test	Writte n Exam								Written Exam	
		50 Questions for Analytical Course 75 Questions for Theory Course										
Duration of the Test	1 hour 30 Minut es	1 hour 30 Minut es	3 hours							3 hours	3 hours	

Marks	50	50	75	5		15	10	5	30*	30	75 (To be weighted for 50 Marks)	
Weightage of CAM	2.5	2.5	2.5	2.5	10	*To be weighted for 10 Marks			10			
CAM / ESM	CAM =10+10 = 20									ESM (Practical)= 30	ESM (Theory) = 50	100

## Distribution of Marks for Attendance, the Question Paper Pattern for Model and ESE are same as given in B. Tech. Regulations R2023 for Theory cum practical Courses **under clause 9.3.**

- (ii) **Project Evaluation:** The project evaluation shall be carried out by a Project evaluation committee comprising the Head of the Department or his/her nominee (Chairperson), Project coordinator (Professor / Associate Professor) and the project guide(s) as per the evaluation given in table M3.

**Table M3. CAM and ESM break-up for Project Work**

Sl. No	Description			Weightage
<b>1</b>	<b>Continuous Assessment Marks</b>			
a	Review 1	Review Committee	15	25
		Supervisor	10	
b	Review 2	Review Committee	15	25
		Supervisor	10	
	<b>Total CAM</b>			50
<b>2</b>	<b>End Semester Marks</b>			
a	Evaluation of project work report and Viva-voce	Report	15	50
		Presentation and Viva	20	
		Demonstration	15	
	<b>Total ESM</b>			50
	<b>Total Marks</b>			100

#### M11. Minimum passing requirement and grading

- (i) **A student is declared to have successfully passed a theory-based course if he/she has secured:**  
A minimum of 40% marks in the End Semester Examinations and a minimum of 50% marks on combining both Continuous Assessment Marks (CAM) and End Semester Examination Marks (ESM).
- (ii) **A student is declared to have successfully passed a theory cum practical based course if he/she has secured:**  
A minimum of 50% marks in the End Semester Examinations (ESE- Theory) and a minimum of 50% marks in the End Semester Examinations (ESE-Practical) and a minimum of 50% marks on combining both Continuous Assessment Marks (CAM) and End Semester Examination Marks (ESM).
- (iii) **A student is declared to have successfully passed a project-based course if he/she has secured:**  
A minimum of 50% marks in the End Semester Examinations and a minimum of 50% marks on combining both Continuous Assessment Marks (CAM) and End Semester Examination Marks (ESM).
- (iv) All assessments of a course will be evaluated exactly based on the marks. However, for the purpose of reporting the performance of a candidate, letter grade with grade points will be awarded as per the range given in Table 13.1 under clause 13 of B.Tech Regulations R-2023, based on the percentage of marks obtained by the candidate in each course.

**M12. Academic Dishonesty**

When a student is found responsible for a violation of the SMVEC code of conduct pertaining to academic dishonesty (Malpractice in Examinations), the Office of Controller of Examinations will initiate action based on the pre-approved procedures. Appropriate penalty or punishment will be awarded to the student.

**M13. Award of Minor degree**

- (i) A student is eligible to get the Minor Degree only on completing the major degree programme (As per B. Tech Regulations R-2023, Clause 14.1.1(i), Students who have successfully completed the programme within eight consecutive semesters (six consecutive semesters for Lateral Entry students) and passing the End Semester Examination in all the courses from first to eighth semester in the first attempt itself.
- (ii) Nomenclature of Minor Degree is 'B.Tech. in XXX with specialization in YYY, where XXX is Degree in which the student is enrolled and YYY is the **Minor Degree specializations**.