

Regulations
for
Bachelor of Engineering /
Bachelor of Technology
[R2023]



SRM VALLIAMMAI ENGINEERING COLLEGE

(An Autonomous Institution, Affiliated to Anna University, Chennai)

SRM Nagar, Kattankulathur, Chengalpattu District – 603203 Tamil Nadu

CHOICE BASED CREDIT SYSTEM

COMMON TO ALL B.E. / B.TECH. FULL-TIME DEGREE PROGRAMMES

These regulations are applicable to the candidates admitted into B.E. / B.Tech. programmes from the Academic Year 2023-24 onwards.

1. PRELIMINARY DEFINITIONS AND NOMENCLATURE

In these Regulations, unless the context otherwise requires:

- i. **“University”** means ANNA UNIVERSITY, CHENNAI.
- ii. **“Head of the Institution”** means the Principal of the College.
- iii. **“Controller of Examinations (COE)”** means the authority of the Institution who is responsible for all activities of the Continuous Assessment Test and End Semester Examinations.
- iv. **“Head of the Department (HOD)”** means the Head of the Department concerned.
- v. **“Programme”** means Degree Programme, that is B.E./B.Tech. Degree Programme.
- vi. **“Discipline”** means specialization or branch of B.E./B.Tech. Degree Programme, like Civil Engineering, Electrical and Electronics Engineering, etc.
- vii. **“Course”** means a theory or practical subject that is normally studied in a semester, like Mathematics, Physics, etc.

2. QUALIFICATIONS FOR ADMISSION

2.1 Admission to First Semester

The candidates seeking admission for the First Semester Bachelor of Engineering and Bachelor of Technology degree programme:

- i. Should have passed the Higher Secondary Examinations of (10+2) in the academic stream with Mathematics, Physics and Chemistry as main courses of study conducted by the Government of Tamil Nadu or an examination accepted by the syndicate of Anna University as equivalent there to. They should also satisfy other eligibility rules as prescribed by the Anna University and Directorate of Technical Education, Government of Tamil Nadu from time to time.

(OR)

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

2.2 Lateral entry admission

- i. The candidates who possess the Diploma in Engineering / Technology awarded by the State Board of Technical Education, Tamil Nadu or its equivalent are eligible to apply for Lateral entry admission to the third semester of B.E. / B.Tech. in the branch corresponding to the branch of study.
(OR)
- ii. The candidates who possess the Degree in Science (B.Sc.,) (10+2+3 stream) with Mathematics as a subject at the B.Sc. Level are eligible to apply for Lateral entry admission to the third semester of B.E. / B.Tech.
- iii. Such candidates shall undergo two additional Engineering subject(s) in **the third and fourth semesters** as prescribed by the College.

3. UG PROGRAMMES OFFERED

The following Programmes and Branches of study, approved by Anna University, Chennai, and All India Council for Technical Education, New Delhi, are offered by the College.

Programme	Branch
B.E.	Civil Engineering Computer Science and Engineering Electrical and Electronics Engineering Electronics and Instrumentation Engineering Electronics and Communication Engineering Mechanical Engineering Medical Electronics Cyber Security
B.Tech.	Agricultural Engineering Artificial Intelligence and Data Science Information Technology

4. STRUCTURE OF PROGRAMMES

4.1 Categorization of Courses

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

- i. **Humanities, Social Sciences and Management Courses (HSMC)** include Professional English, Communication skills etc.
- ii. **Basic Sciences Courses (BSC)** include Mathematics, Physics, Chemistry, Biology, Environmental Science etc.
- iii. **Engineering Sciences Courses (ESC)** include Engineering Practices, Engineering Graphics, Basics of Civil / Mechanical / Electrical / Electronics / Instrumentation, Computer Engineering, etc.
- iv. **Professional Core Courses (PCC)** include the core courses relevant to the chosen specialization/branch.
- v. **Professional Elective Courses (PEC)** include the elective courses relevant to the chosen specialization/ branch.
- vi. **Open Elective Courses (OEC)** include the courses offered by a branch to other branches, from the list specified in the respective curriculum of the B.E. / B. Tech. Programmes.
- vii. **Employability Enhancement Courses (EEC)** include Project Work, Internship, Seminar, Professional Practices, Case Study and Industrial/Practical Training etc.
- viii. **Mandatory courses (MC)** include the courses such as Elements of Literature, Psychology for Professionals etc.

4.2 Personality and Character Development (PCD)

4.2.1 NSS/NSO/YRC/Club Activities

All students shall enroll, on admission, in any one of the personality and character development programmes (NSS/NSO/YRC/Club Activities) and undergo training for about 40 hours and attend a camp of about seven days if applicable. The training shall include classes on hygiene and health awareness and also training in first-aid.

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

National Sports Organization (NSO) will have sports, Games, Drills and Physical exercises.

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

Science and Humanities Departments will organize club activities related to science and language development.

4.2.2 National Cadet Corps (NCC)

NCC level 1 and 2 Courses are offered for the candidates registered with SRM VEC NCC Unit. The grades earned by the students will be recorded in the Mark Sheet, however the same shall not be considered for the computation of CGPA. While the training activities will normally be during weekends, the camp will normally be during vacation period.

4.3 Number of courses per semester

Each semester curriculum shall normally have a blend of lecture courses not exceeding **8** and Laboratory courses and Employability Enhancement Course(s) not exceeding **4**. Each Employability Enhancement Course may have credits assigned as per clause 4.4. However, the total number of courses per semester shall not exceed 12.

4.4 Credit Assignment

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

Contact period per week	CREDIT
1 Lecture Period	1
1 Tutorial Period	1
2 Laboratory Periods (also for EEC courses like / Seminar / Project Work / Case study / etc.)	1
2 Weeks Industrial Training / Internship	1
3 Weeks Industrial Training / Internship	2
4 Weeks Industrial Training / Internship	3

4.4.1 The prescribed range of total credits for each degree programme ranges from **165 to 170**.

4.5. Industrial Training / Internship

The students should undergo Industrial training for a period as specified in the Curriculum during summer / winter vacation. In this case the training has to be undergone from 2 to 4 weeks period.

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

4.6 Industrial Visit

Every student is required to go for at least one Industrial Visit every year starting from the second year of the Programme. The Head of the Department shall ensure that necessary arrangements are made in this regard.

4.7 Value Added Courses

The students shall undergo the Value Added Courses which are jointly organized by academicians and industrial experts. The duration of the courses is not less than 30 hours.

4.8 Online Courses

Students shall be permitted to credit one online course offered by the SWAYAM Platform, subject to a maximum of three credits, with the approval of the Head of the Institution in lieu of an open elective course / a professional elective course. The Head of the Institution shall form a three member committee with members as HOD and a faculty member from the Department of the student, HOD of any other branch of the Institution. The committee has to ensure that the student has not studied such courses and would not repeat it again as Professional Elective/Open Elective course.

4.9 Project Work in Industry / Research Organizations

The students with no history of arrears and having CGPA of 7.50 and above (upto Sixth Semester) shall be permitted to carry out their final semester Project work in Industry / Research Organizations.

4.10 Medium of Instruction

The medium of instruction is English for all courses, examinations, seminar presentations and project / thesis / dissertation reports **except for Tamil literature courses**.

5. DURATION OF THE PROGRAMME

- 5.1 A student is ordinarily expected to complete the B.E. / B.Tech. Programme in 8 semesters (four academic years) but in any case not more than 14 Semesters for HSC (or equivalent) students and not more than 12 semesters for Lateral Entry students.
- 5.2 Each semester shall normally consist of **75 working days or 540 periods of 50 minutes** each. The Head of the Department shall ensure that every teacher imparts instruction as per the number of periods specified in the syllabus and that the teacher teaches the full content of the specified syllabus for the course being taught.
- 5.3 The total duration for completion of the programme reckoned from the commencement of the first semester to which the student was admitted shall not exceed the maximum duration specified in clause 5.1 irrespective of the period of break of study (vide clause 18) or prevention (vide clause 7.4) in order that the student may be eligible for the award of the degree (vide clause 16).

6. COURSE ENROLLMENT AND REGISTRATION

The courses that a student registers in a particular semester may include

- i. Courses of the current semester.
- ii. Reappearance for the core (Theory / Lab / EEC) courses in the earlier semesters.
- iii. Reappearance for the Elective courses in the earlier semesters.
- iv. The student shall register for the project work in the VIII semester only.
- v. Any other course(s) the student wishes to register as per norms (vide clauses 4.7 and 4.8)

- 6.1** Each student, on admission shall be assigned to a class advisor (vide clause 8) who shall advise and counsel the student about the details of the academic programme and the choice of courses considering the student's academic background and career objectives.
- 6.2** Every student shall enroll for the course of the succeeding semester before the end of the current semester. However, the student shall confirm the enrollment by registering for the courses within the first five working days after the commencement of the concerned semester.
- 6.3** No Elective course shall be offered by a Department unless a **minimum of 10 students register for that course**, subject to the approval of Head of the Department.
- 6.4** After registering for a course, a student shall attend the classes, satisfy the attendance requirements, earn Continuous Assessment Marks and appear for the End-Semester Examinations.
- 6.4.1 Each student on admission shall register for all the courses prescribed in the curriculum for the first year of study.
- 6.4.2 The enrollment for the courses of the Semesters III to VIII will commence after successful publication of results in 10 working days of the preceding semester. The student shall enroll for the courses with the guidance of class advisor.

6.5 Registration for Reappearance

- 6.5.1 If a student fails to secure a minimum pass in theory / laboratory courses, he /she has to register for reappearance for that course with the same continuous assessment marks in the subsequent semesters (maximum 3 semesters) and attend the end semester examination.
- 6.5.2 If a student is prevented from writing end semester examination of a course due to lack of attendance, the student has to register for that course again, when offered next, attend the classes and fulfill the attendance requirements as per clause 7.

7. ATTENDANCE REQUIREMENTS FOR COMPLETION OF A SEMESTER

A student who has fulfilled the following conditions (vide clauses 7.1 and 7.2) shall be deemed to have satisfied the attendance requirements for appearing for end-semester examination of a particular course.

7.1 A candidate who has fulfilled the following conditions shall be deemed to have satisfied the requirements for completion of a semester.

Ideally every student is expected to attend all classes and secure 100% attendance. However, in order to give provision for certain unavoidable reasons such as **medical reasons (prolonged hospitalization / accident / specific illness)** the student is expected to attend at least 75% of the classes course wise taking into account the number of periods required for that course as specified in the curriculum.

Therefore, he/she shall **secure not less than 75%** (after rounding off to the nearest integer) of the classes.

- i. He/she has earned not less than 75% of attendance on an average in all the courses in that semester.
- ii. His / her progress has been satisfactory, and
- iii. His / her conduct has been satisfactory.

7.2 However, a student who secures attendance between 65% and 74% in a course due to medical reasons (prolonged hospitalization / accident / specific illness and also NCC/NSS/NSO/YRC/Club Activities) may be permitted to appear for the current semester examinations subject to the condition that the candidate shall submit the medical certificate. Also consider NCC/NSS/NSO/YRC/Club Activities **ON DUTY**. The on duty consider only after approval of Head of the Institution. The same shall be forwarded to the Controller of Examinations for record purposes.

7.3 A student shall normally be permitted to appear for End-Semester examination of the course if the student has satisfied the attendance requirements (vide Clause 7.1 – 7.2) and has registered for examination in those courses of that semester by paying the prescribed fee.

7.4 **Students who do not satisfy clause 7.1 and 7.2 and who secure less than 65% attendance** in a course will not be permitted to write the End-Semester Examination of that course. The student has to register and repeat this course in the next academic year with the permission of the Head of the Institution.

7.5 If a student is prevented from writing end-semester examination of a course due to lack of attendance, the student has to register for that course again, when offered next, attend the classes and fulfill the attendance requirements as per clause 7.

7.6 For the purpose of calculation of attendance requirement for writing the End-Semester examinations by the students for every course, the following method shall be used.

$$\text{Percentage of Attendance} = \frac{\text{Total no. of periods attended in all the courses per semester}}{(\text{No.of periods / week as prescribed in the curriculum}) \times 15 \text{ taken together for all courses of the semester}} \times 100$$

8. CLASS ADVISOR

There shall be a class advisor for each class. He / She will be appointed by the Head of the Department of the student concerned. The class advisor is the ex-officio member and the Convener of the class committee. The responsibilities for the class advisor shall be:

- To act as the channel of communication between the Head of the Department and the students of the respective class.
- To collect and maintain various statistical details of students.
- To help the chairperson of the class committee in planning and conduct of the class committee meetings.
- To monitor the academic performance of the students including attendance and to inform the class committee.
- To attend to the student's welfare activities like awards, medals, scholarships and industrial visits.
- To communicate the academic performance of their student to the parents.

9. CLASS COMMITTEE

- 9.1. Every class shall have a class committee consisting of teachers of the class concerned, student representatives and a chairperson who is not teaching the class. It is like the 'Quality Circle' with the overall goal of improving the teaching learning process. The functions of the class committee include and not limited to
- Solving problems experienced by students in the class room and in the laboratories.
 - **Clarifying the regulations of the degree programme and the details of rules therein particularly (clause 5 and 7) which should be displayed on college Notice-Board.**
 - Informing the student representatives, the academic schedule including the dates of assessments and the syllabus coverage for each assessment.
 - Informing the student representatives the details of Regulations regarding weightage used for each assessment. In the case of practical courses (laboratory / drawing / project work / seminar etc.) the breakup of marks for each experiment / exercise / module of work, should be clearly discussed in the class committee meeting and informed to the students.
 - Analyzing the performance of the students of the class after each test and finding the ways and means of solving problems, if any.
 - Identifying the weak students, if any, and requesting the teachers concerned to provide some additional help or guidance or coaching to such weak students.

- 9.2 The class committee for a class under a particular branch is normally constituted by the Head of the Department. However, if the students of different branches are mixed in a class, the class committee is to be constituted by the Head of the Institution.
- 9.3 The class committee shall be constituted within the first week of each semester.
- 9.4 At least 4 student representatives (usually 2 boys and 2 girls) shall be included in the class committee.
- 9.5 The Chairperson of the class committee may invite the Class adviser(s) and the Head of the Department to the class committee meeting.
- 9.6 The Head of the Institution may participate in any class committee of the institution.
- 9.7 The chairperson is required to prepare the minutes of every meeting, submit the same to Head of the Institution within two days of the meeting and arrange to circulate it among the students and teachers concerned. If there are some points in the minutes requiring action by the management, the same shall be brought to the notice of the Management by the Head of the Institution.
- 9.8 The first meeting of the class committee shall be held within one week from the date of commencement of the semester, in order to inform the students about the nature and weightage of assessments within the framework of the Regulations. Two or three subsequent meetings may be held in a semester at suitable intervals. **The Class Committee Chairman shall put on the Notice Board the cumulative attendance particulars of each student at the end of every such meeting to enable the students to know their attendance details to satisfy the clause 7 of this Regulation.** During these meetings the student members representing the entire class, shall meaningfully interact and express the opinions and suggestions of the other students of the class in order to improve the effectiveness of the teaching-learning process.

10. COURSE COMMITTEE FOR COMMON COURSES

Each common theory course offered to more than one discipline or group, shall have a "Course Committee" comprising all the teachers teaching the common course with one of them nominated as Course Coordinator. The nomination of the Course Coordinator shall be made by the Head of the Department depending upon whether all the teachers teaching the common course belong to a single department or to several departments. The 'Course committee' shall meet in order to arrive at a common scheme of evaluation for the test and shall ensure a uniform evaluation of the tests. Wherever feasible, the course committee may also prepare a common question paper for the internal assessment test(s).

11. SYSTEM OF EXAMINATION

11.1 Performance in each course of study shall be evaluated based on (i) Continuous Assessment Test (CAT) throughout the semester and (ii) End Semester Examination (ESE) at the end of the semester.

11.2 For all theory courses the internal assessment will carry 40% weightage while the End-Semester examination will carry 60% Weightage.
For All practical Courses the internal assessment will carry 60% weightage, the End-Semester Examination will carry 40% weightage.
Each course shall be evaluated for a maximum of 100 marks as shown below:

SI.No	Category of course	Continuous Assessment Test	End-Semester Examinations
1	Theory Courses	40 Marks	60 Marks
2	Laboratory Courses	60 Marks	40 Marks
3	Project Work	60 Marks	40 Marks
4	Theory cum Laboratory courses	50 Marks	50 Marks
5	All other EEC Courses	100 Marks	--

11.3 Industrial training and seminar shall carry 100 marks and shall be evaluated through internal assessment only.

11.4 The Continuous Assessment Test (theory and practical) of 3 hours duration will be conducted.

The End Semester Examination (theory and practical) of 3 hours duration shall ordinarily be conducted between October and December during the odd semesters and between April and June during the even semesters.

11.5 The End-Semester examination for project work shall consist of evaluation of the final report submitted by the student or students of the project group (of not exceeding 4 students) by an external examiner and an internal examiner, followed by a viva-voce examination conducted separately for each student by a committee consisting of the external examiner, the supervisor of the project group and an internal examiner.

11.6 For the End-Semester examination in both theory, laboratory an theory cum laboratory courses including project work the examiners shall be appointed by the Controller of Examinations.

12. PROCEDURE FOR AWARDING MARKS

- For all theory courses, the continuous assessment shall be for a maximum of 40 marks.
- For all practical courses, the continuous assessment shall be for a maximum of 60 marks.
- For all project courses, the continuous assessment shall be for a maximum of 60 marks.
- For all theory cum laboratory component, the continuous assessment shall be for a maximum of 50 marks.

The above continuous assessment shall be awarded as per the procedure given below:

12.1 (a) Theory Courses

There are two continuous assessment tests during every semester. The Continuous Assessment Test I and II have 50% weightage of syllabus.

The criteria for arriving at continuous assessment test marks of 40 are as follows:

Continuous Assessment Test I (100 Marks)		Continuous Assessment Test II (100 Marks)		Total Internal Assessment
Individual Assignment / Case Study / Seminar / Mini Project	Written Test	Individual Assignment / Case Study / Seminar / Mini Project	Written Test	
40	60	40	60	200*

*The weighted average shall be converted into 40 marks for internal Assessment.

The student must attend the End-Semester Examination for 100 marks and the marks obtained shall be converted to 60 marks.

The **End-Semester Examination** question pattern is **10 questions in Part A** each carrying two marks, **5 questions in Part B** (either or type) each carrying 16 marks from all five units.

The question pattern for continuous assessment test (CAT) will be as follows:
10 questions in Part A each carrying two marks, 5 questions in part B (either or type) each carrying 16 marks from 50% weightage of syllabus.

The duration of Continuous Assessment Tests and End-Semester Examinations is 3 hours. For Continuous assessment tests valuation is single valuation and for the End-Semester Examinations it is evaluated by either Internal Examiner or External Examiner.

(b) Laboratory Courses:

The maximum marks for Internal Assessment shall be 60% in case of laboratory courses. Every practical exercise / experiment shall be evaluated based on conduct of Experiments / Execution, Record, Model Exam and viva-voce.

The criteria for arriving at the Internal Assessment marks and End-Semester Examinations are as follows:

Internal Examinations (60 Marks)			End-Semester Examinations (40 Marks)
Conduct of Experiments/ Execution	Record	Model Exam	External
30	10	20	40

The student must attend the End-Semester examination for 100 marks and the marks obtained shall be converted to 40 marks.

(c) Theory Courses with Laboratory Component:

The weightage of internal assessment and end semester examination marks will be 50% each. The distribution of marks for the theory and laboratory components in the internal assessments and end semester examination for different types of courses are provided in the table below:

L	T	P	C	Internal		End Semester Examination
1	0	4	3	Laboratory (25%)	Theory (25%)	Laboratory only (50%)
1	0	2	2	Laboratory (25%)	Theory (25%)	Laboratory only (50%)
2	0	2	3	Theory (25%)	Laboratory (25%)	Theory (25%) Laboratory (25%)
3	0	2	4	Theory (25%)	Laboratory (25%)	Theory (35%) Laboratory (15%)
2	0	4	4	Theory (25%)	Laboratory (25%)	Theory (15%) Laboratory (35%)

The student must attend the End-Semester examination for 100 marks and the marks obtained shall be converted to 50 marks

12.2 Project Work:

Project work may be allotted to a single student or to a group of students not exceeding 4 per group. The same has to be recommended by the project supervisor and approved by the Head of the Department

The Head of the Department concerned shall constitute a review committee for project work for each branch of study. There shall be three reviews during the semester by the review committee. The student shall make presentation on the progress made by them before the committee. **The total marks obtained in the three reviews is added and rounded to the nearest integer.**

12.2.1 The project report shall be submitted as per the approved guidelines as given by the academic committee. Same mark shall be awarded to every student within the project group for the project report. The viva-voce examination shall carry 30 marks. Marks are awarded to each student of the project group based on the individual performance in the viva-voce examination.

Internal Examinations (60)			End-Semester Examinations (40 Marks)			
Review I	Review II	Review III	Thesis (20)		Viva-voce (20)	
			Supervisor	External	Internal	External
15	15	30	10	10	10	10

The student must attend the end-semester examination for 100 marks and the marks obtained shall be converted to 40 marks.

12.2.2 If a candidate fails to submit the project report on or before the specified deadline, he/she is deemed to have failed in the Project Work and shall re-enroll for the same in the subsequent semester.

12.3 Employability Enhancement Courses (EEC)

(a) The seminar / Case study is to be considered as purely INTERNAL (with 100% internal marks only). Every student is expected to present a minimum of 2 seminars / case study per semester before the evaluation committee and for each seminar, marks can be equally apportioned. The three member committee appointed by Head of the Department will evaluate the seminar and at the end of the semester the marks can be consolidated and taken as the final mark. **The evaluation shall be based on the seminar paper / case study report (40 marks), presentation (30 marks) and response to the questions asked during presentation (30 marks).**

(b) The Industrial / Practical Training, Summer Project, Internship, shall carry 100 marks and shall be evaluated through internal assessment only. At the end of Industrial / Practical training / internship / Summer Project, the candidate shall submit a certificate from the organization where he / she has undergone training and a brief report. The evaluation will be made based on this report and a Viva-Voce Examination, conducted internally by a three member departmental committee constituted by the Head of the Department.

12.4 Internal marks approved by the Head of the Institution shall be displayed by the respective Head of the Department within 5 days from the last working day.

12.5 Attendance Record

Every teacher is required to maintain an 'ATTENDANCE AND ASSESSMENT RECORD' which consists of attendance marked in each lecture or practical or project work class, the test marks and the record of class work (topic covered), separately for each course. This should be submitted to the Head of the department periodically (at least three times in a semester) for checking the syllabus coverage and the records of test marks and attendance.

The Head of the department will put his/her signature along with date after due verification. At the end of the semester, the record should be verified by the Head of the Institution who will keep this document in safe custody (for five years). **The inspection team appointed by the Principal may verify the records of attendance and assessment of both current and previous semesters.**

13. REQUIREMENTS FOR APPEARING FOR END-SEMESTER EXAMINATIONS

A candidate shall normally be permitted to appear for the End-Semester Examinations for all the courses registered in the current semester (vide clause 6) if he/she has satisfied the semester completion requirements (subject to clause 7).

A candidate who has already appeared for any subject in a semester and passed the examination is not entitled to reappear in the same subject for improvement of grades.

14. PASSING REQUIREMENTS

- 14.1 A student who secures not less than 50% of total marks prescribed for the course [Internal Assessment + End-Semester University Examinations] with a minimum of 45% of the marks prescribed for the end-semester University Examination, shall be declared to have passed the course and acquired the relevant number of credits. This is applicable for both theory and laboratory courses (including project work).
- 14.2 The passing requirement for the courses which are assessed only through purely internal assessments (EEC courses except project work and three credit courses), is 50% of the internal assessment (continuous assessment) marks only.
- 14.3 The internal assessment marks obtained by the candidate in the first appearance shall be retained and considered valid for all subsequent attempts till the candidate secure a pass. However, from the third attempt onwards if a candidate fails to obtain pass marks (IA + End-Semester Examination) as per clause 14.1, then the candidate shall be declared to have passed the examination if he/she secure a minimum of 50% marks prescribed for the End-Semester examinations alone.

15. AWARD OF LETTER GRADES

- 15.1** The award of letter grades will be decided based on relative grading principle. The relative grading is applicable to only those students who have passed the examinations as per the passing requirements. If the number of candidates in a course is less than or equal to 30, then the fixed grading shall be followed with the grades range as specified below:

Letter grade	Grade Points	Marks Range
O (Outstanding)	10	91 – 100
A+ (Excellent)	9	81 – 90
A (Very Good)	8	71 – 80
B+ (Good)	7	61 – 70
B (Average)	6	56 – 60
C(Satisfactory)	5	50-55
RA (Reappear)	0	<50
SA (Shortage of Attendance)	0	-
W (withdrawal)	0	-

A student is deemed to have passed and acquired the corresponding credits in a particular course if he/she obtains any one of the following grades: "O", "A+", "A", "B+", "B" and "C".

"SA" denotes shortage of attendance (as per clause 7.4) and hence prevention from writing the End-Semester examinations. 'SA' will appear only in the result sheet.

"RA" denotes that the student has failed to pass in that course. "W" denotes **withdrawal** from the exam for the particular course. The grades RA and W will figure both in Marks Sheet as well as in Result Sheet. In both cases the student has to reappear for the End-Semester Examinations.

- 15.2** For the Co-curricular activities such as NSS / NSO / YRC / Club Activities shall be completed during the first year of the programme. The grade earned by the students will be recorded in mark sheet, however same shall not be considered for the computation of CGPA.
- 15.3** The grades O, A+, A, B+, B and C obtained for the one credit course shall figure in the Mark sheet. The Courses for which the grades are RA, SA **will not figure in the mark sheet.**

Grade sheet

After results are declared, Grade Sheets will be issued to each student.

GPA for a semester is the ratio of the sum of the products of the number of credits for courses acquired and the corresponding points to the sum of the number of credits for the courses acquired in the semester.

$$\text{GPA} = \frac{\text{Sum of (Credits Earned} \times \text{Grade Points)}}{\text{Total Credits}}$$

CGPA will be calculated in a similar manner, considering all the courses registered from first semester.

'RA', 'SA' and 'W' grades will be excluded for calculating GPA and CGPA.

$$\text{CGPA} = \frac{\sum_{i=1}^n C_i \text{GP}_i}{\sum_{i=1}^n C_i}$$

where,

C_i - is the Credits assigned to the course

GP_i - is the point corresponding to the grade obtained for each Course

n - is number of all Courses successfully cleared during the particular semester in the case of GPA and during all the semesters in the case of CGPA.

The GPA and CGPA indicate the academic performance of a candidate at the end of a semester and at the end of successive semesters respectively.

16. ELIGIBILITY FOR THE AWARD OF THE DEGREE

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

- i. Successfully gained the required number of total credits as specified in the curriculum corresponding to the student's programme within the stipulated time.
- ii. Successfully completed the course requirements, appeared for the End-Semester examinations and passed all the subjects prescribed in all the 8 semesters within a maximum period of 7 years (6 years in the case of Lateral Entry) reckoned from the commencement of the first (third in the case of Lateral Entry) semester to which the candidate was admitted.

- iii. Successfully completed the NSS / NSO / YRC / Club Activities requirements.
- iv. Successfully completed the Mandatory Courses.
- v. No disciplinary action pending against the student.

16.2 Classification of The Degree Awarded

16.2.1 First Class with Distinction

A student who satisfies the following conditions shall be declared to have passed the examination in **First class with Distinction**:

- Should have secured a **CGPA of not less than 8.50** and
 - i. Should have passed the examination in all the courses of all the eight semesters and 6 semesters (in the case of lateral entry) in the student's First Appearance.
 - ii. Should have passed the examination in all the courses of all the eight semesters and 6 semesters (in the case of lateral entry) in the student's First Appearance **within five years** (Four years in the case of lateral entry). Withdrawal from examination (vide Clause 15) will not be considered as an appearance.

One year authorized break of study (if availed of) is included in the five years (Four years in the case of lateral entry) for award of First class with Distinction.

- iii. Should NOT have been prevented from writing End-Semester examination due to lack of attendance in any semester.

16.2.2 First Class:

A student who satisfies the following conditions shall be declared to have passed the examination in **First class**:

- Should have secured a **CGPA of not less than 6.50** and
 - i. Should have passed the examination in all the courses of all eight semesters (6 semesters in the case of Lateral Entry) **within six years** (Five years in the case of Lateral Entry).
 - ii. 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 six years (five years in the case of lateral entry) for award of First class.

16.2.3 Second Class:

All other students (not covered in clauses 16.2.1 and 16.2.2) who qualify for the award of the degree (vide Clause 16.1) shall be declared to have passed the examination in **Second Class**.

16.3 Photocopy / Revaluation

A candidate can apply for photocopy of his/her End-Semester examination answer paper in a theory course, within 1 week from the declaration of results, on payment of a prescribed fee through proper application to the Controller of Examinations through the Head of the Department. Based on the recommendation, the candidate can register for the revaluation through proper application to the Controller of Examinations. The Controller of Examinations will arrange for the revaluation and the results will be intimated to the candidate concerned through the Head of the Department. Revaluation is not permitted for practical courses and for project work. A candidate can apply for revaluation of answer scripts for not exceeding 5 subjects at a time.

16.4 Review

Candidates not satisfied with result can apply for Review of his/ her examination answer paper in a theory course within 1 week from the declaration of results on payment of a prescribed fee through proper application to Controller of Examination through the Head of the Department. The paper can be evaluated in front of the student with 2 subject experts.

Candidates applying for Revaluation only are eligible to apply for Review.

17. PROVISION FOR WITHDRAWAL FROM END-SEMESTER EXAMINATION

17.1 A student may, for valid reasons, (medically unfit/unexpected family situations /sports approved by Chairman, sports board and HOD) be granted permission to withdraw from appearing for the End-Semester examination in any course or courses in ANY ONE of the semester examinations during the entire duration of the degree programme. The application shall be sent to Director, Student Affairs through the Head of the Institution with required documents.

17.2 Withdrawal application is valid if the student is otherwise eligible to write the examination (Clause 7) and if it is made within TEN days prior to the commencement of the examination in that course or courses and recommended by the Head of the Institution and approved by the Controller of Examinations.

17.2.1 Notwithstanding the requirement of mandatory 10 days notice, applications for withdrawal for special cases under extraordinary conditions will be considered on the merit of the case.

17.3 In case of withdrawal from a course/courses (Clause 13) the course will figure both in Marks Sheet as well as in Result Sheet. **Withdrawal essentially requires the student to register for the course/courses.** The student has to register for the course, fulfill the attendance requirements (vide clause 7), earn continuous assessment marks and attend the End-Semester examination. However, withdrawal shall not be construed as an appearance for the eligibility of a candidate for First Class with Distinction.

18. PROVISION FOR AUTHORISED BREAK OF STUDY

18.1 A student is permitted to go on break of study for a maximum period of one year as a single spell.

18.2 Break of Study shall be granted only once for valid reasons for a maximum of one year during the entire period of study of the degree programme. However, in extraordinary situation the candidate may apply for additional break of study not exceeding another one year by paying prescribed fee for break of study. If a candidate intends to temporarily discontinue the programme in the middle of the semester for valid reasons, and to rejoin the programme in a subsequent year, permission may be granted based on the merits of the case provided he / she applies to Head of the Institution, but not later than the last date for registering for the End-Semester examination of the semester in progress, through the Head of the Institution stating the reasons therefore and the probable date of rejoining the programme.

18.3 The candidates permitted to rejoin the programme after break of study / prevention due to lack of attendance, shall be governed by the Curriculum and Regulations in force at the time of rejoining. The students rejoining in new Regulations shall apply to the Head of the Institution in the prescribed format through Head of the Department at the beginning of the readmitted semester itself for prescribing additional courses, if any, from any semester of the regulations in-force, so as to bridge the curriculum in-force and the old curriculum.

18.4 The authorized break of study would be counted towards the duration specified for passing all the courses for the purpose of classification (vide Clause 16.2).

18.5 The total period for completion of the Programme reckoned from, the commencement of the first semester to which the candidate was admitted shall not exceed the maximum period specified in clause 5.1 irrespective of the period of break of study in order that he/she may be eligible for the award of the degree.

18.6 If any student is prevented for want of required attendance, the period of prevention shall not be considered as authorized 'Break of Study' (Clause 18.1)

19. ENROLMENT FOR B.E. / B. TECH. (HONOURS) / MINOR DEGREE (OPTIONAL)

A student can also optionally register for additional courses (18 credits) and become eligible for the award of B.E./B.Tech. (Honours) Minor degree. For B.E. / B. Tech. (Honours), a student shall register for the additional courses (18 credits) from semester V onwards. These courses shall be from the same vertical or a combination of different verticals of the same programme of study only.

For minor degree, a student shall register for the additional courses (18 credits) from semester V onwards. All these courses have to be in a particular vertical from any one of the other programmes, Moreover, for minor degree the student can register for courses from any one of the following verticals also.

20. DISCIPLINE

20.1 Every student is required to observe disciplined and decorous behaviour both inside and outside the college and not to indulge in any activity which will tend to bring down the prestige of the College. The Head of Institution shall constitute a disciplinary committee consisting of Head of Institution, Two Heads of Department of which one should be from the faculty of the student, to enquire into acts of indiscipline.


20.2 If a student indulges in malpractice in any of the End-Semester / internal examination he / she shall be liable for punitive action as prescribed by the College from time to time.

21. SPECIAL CASES

In the event of any clarification in the interpretation of the above rules and regulations, they shall be referred to the Academic Appeals Board. The Academic Appeals Board will offer suitable interpretations/ clarifications / amendments required for special case on such references and get them ratified in the next meeting of the Academic Council. The decision of the Academic Council will be final.

22. REVISION OF REGULATIONS, CURRICULUM AND SYLLABI

The College may from time to time revise, amend or change the Regulations, Curriculum, Syllabus and scheme of examinations through the Academic Council of the College.


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Approved

Principal