JERUSALEM COLLEGE OF ENGINEERING

(An Autonomous Institution affiliated to Anna University, Chennai)

NBA and NAAC ACCREDITED INSTITUTION

VELACHERY MAIN ROAD, NARAYANAPURAM

PALLIKARANAI, CHENNAI-600 100

ACADEMIC REGULATIONS – 2025

Common to all B.E./B.Tech. Programmes

(Applicable for Batch of students admitted from the Academic Year 2025-2026)

ACADEMIC REGULATIONS – 2025

CHOICE BASED CREDIT SYSTEM

B.E/B. Tech. Degree Programmes

The following rules and regulations shall apply to all Undergraduate (UG) programmes offered at Jerusalem College of Engineering, for students admitted from the academic year 2025-2026.

Revision in Regulation 2023

The current regulation followed at JCE is Regulation 2023 which is in effect from Academic year 2023-2024. Anna University has made absolute grading system mandatory for all category of courses, with effect from the academic year 2025 – 2026 onwards. The existing Regulation 2023 is now revised incorporating this new provision. The revised regulations to be followed from Academic year 2025-2026, shall be designed as Regulation 2025.

Prepared by

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VISION OF THE INSTITITION

Jerusalem College of Engineering is committed in emerging as an international institution of excellence in imparting finest quality engineering, technology and management education rooted in ethical and societal values through various academic programmes, multi-disciplinary research, consultancy and entrepreneurship activities and hence to contribute towards social transformation and nation building.

MISSION OF THE INSTITUTION

- Generating abundant resources and making conducive policies, the management led by the Chief Executive Officer strives towards promoting globally competitive academic programmes augmented with value added courses, in-plant training activities, co-curricular activities and ambience that support intellectual growth and skill acquisition
- Promoting collaborative trans-border research programmes continuing education in synergy with academia, industries and research organizations leading to real time solutions and life-long learning
- Transforming young men and women into competent professionals and entrepreneurs motivated by a passion for professional excellence, driven by human values and proactively engage in the betterment of the society through innovative practices and academic excellence
- Facilitating effective interaction among faculty members and students and fostering network of alumni, industries, institutions and other stake-holders for successful career gain and placement

QUALITY POLICY

Qualitative Education and sense of high discipline are promises. We at the Jerusalem College of Engineering make to posterity and accordingly, we shall adopt and adhere to Quality policies, constantly monitor accountability and assure all stake holders that **"WE SHALL KEEP OUR PROMISE".**

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1 SCOPE

This **Regulation** is applicable to the students admitted to B.E./B.Tech. Programmes at Jerusalem College of Engineering (An Autonomous Institution, Affiliated to Anna University, Chennai) from the academic year 2025-26 onwards.

2 PRELIMINARY DEFINITIONS AND NOMENCLATURE

In this Regulations, unless the context otherwise specifies:

a. "**University"** means ANNA UNIVERSITY, CHENNAI.
b. "**Institution**" means Jerusalem College of Engineering (JCE), Chennai.
c. "**Programme**" means Degree Programme, that is B.E./B.Tech. Degree Programme.
d. "**Discipline"** means specialization or branch of B.E./B.Tech. Degree Programme, likeCivil Engineering, Information Technology etc.
e. "**Course"** means a theory or practical subject that is normally studied in a semester, like Mathematics, Circuit Analysis etc.
f. "**Head of the Institution**" means the Principal of the Institution.
g. "**Dean – Academics"** means authority of the Institution who is responsible for all academic activities of the Academic programmes and for implementation of relevant rulesof this Regulations pertaining to the Academic programmes
h. "**Controller of Examinations**" means the authority of the Institution who is responsiblefor all Examination related activities.
i. "**Dean – Student Affairs**" means authority of the Institution who is responsible for all student related activities and for ensuring discipline in the Institution.
j. "**Head of the Department**" means Head of the Department concerned.

3 ADMISSION

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

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

(OR)

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

3.2 Lateral Entry Admission

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

(OR)

The candidates who possess the Degree in Science (B.Sc.,) (10+2+3 stream) with Mathematics as a subject at the B.Sc. Level are eligible to apply for Lateral entry admission to the third semester of B.E. / B.Tech. Such candidates shall undergo two additional Engineering subject(s) in the **third and fourth** semesters as prescribed by theDean Academics from time to time.

4 PROGRAMMES OFFERED

B.E. / B. Tech. programmes under the following faculty:

Faculty of Civil Engineering

1. B.E. Civil Engineering

Faculty of Electrical Engineering

1. B.E. Electrical and Electronics Engineering

Faculty of Information and Communication Engineering

1. B.E. Computer Science and Engineering
2. B.E. Computer Science and Engineering(Artificial Intelligence and Data Science)
3. B.E. Computer Science and Engineering (Cyber Security)
4. B.E. Electronics and Communication Engineering
5. B.E. Biomedical Engineering
6. B.Tech. Information Technology
7. B.Tech. Artificial Intelligence and Data Science
8. B.Tech. Computer Science and Business Systems

5 STRUCTURE OF PROGRAMMES

5.1 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:

a. **Humanities and Social Sciences (HS)** courses include Communicative English, Technical English, Communication skills, Environmental Science, Soft Skills and Aptitude and Management Courses.

b. **Basic Sciences (BS**) courses include Mathematics, Physics, Chemistry, Biology, etc

c. **Engineering Sciences (ES)** courses include Engineering practices, Engineering Graphics, Basics of Electrical / Electronics / Mechanical / Computer Engineering, Instrumentation etc.

d. **Professional Core (PC**) courses include the core courses relevant to the chosen

specialization /branch.

e. **Professional Elective (PE)** courses include the elective courses relevant to the chosenspecialization/ branch.
f. **Open Elective (OE)** courses shall provide an opportunity to study a course from any discipline that includes the courses relevant to the chosen specialization, the courses that enhance soft and managerial skills, the courses a student can choose from the curriculum of other B.E. / B. Tech. programmes and the courses offered by the Departments under the Faculty of Science and Humanities.
g. **Employability Enhancement Courses (EEC)** include Project work, Internship, Comprehension and Technical Seminar, Professional Practices, Case Study and Industrial/Practical Training.
h. **Non Credit Mandatory (NCM)** courses expose the students to Indian Constitution and Essence of Indian Traditional Knowledge. These courses are included in the curriculum and it is necessary for students to obtain a pass mark in these subjects. The study of these courses will be reflected in the respective Semester Grade Sheet and not considered for CGPA calculation.

5.2 PERSONALITY AND CHARACTER DEVELOPMENT

All students shall enroll, on admission, in any one of the personality and character development programmes (NSS/YRC) and undergo training for about 80 hours and attend a camp of about seven days. The training shall include classes on hygiene and health awareness and also training in first-aid. Alternatively, activities of science, literature and arts also help for personality and character development. Students shall conduct and participate actively in science club/literary forum/fine arts activities for 80 hours and participate is atleast ONE event.

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

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

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

Apart from the above, students may enroll for Professional Societies /Technical Clubs / Physical Education / Rotary Club / Linguistic Club etc.

5.3 MANDATORY TWO WEEK INDUCTION PROGRAMME

Immediately after admission, the students are expected to undergo a mandatory two week induction programme comprising of physical activity, creative arts, universal human values, proficiency modules lectures by eminent people, visits to local areas and familiarization of department / branch and innovations.

5.4 NUMBER OF COURSES PER SEMESTER

Each semester curriculum shall normally have a blend of lecture courses **not exceeding 7 Theory Courses and laboratory integrated theory courses** and Laboratory courses and Employability Enhancement Course(s) **not exceeding 4.** Each Employability Enhancement Course may have credits assigned as per clause 5.5. However, the total number of courses per semester **shall not exceed 10.**

5.5 CREDIT ASSIGNMENT

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

Contact Period Per Week	**Credits**
1 Lecture Period	1
2 Tutorial Periods	1
2 Laboratory Periods (Also for EEC courses like Seminar / Project Work / Case Study)	1

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

5.6 INDUSTRIAL TRAINING / INTERNSHIP

The students may undergo Industrial training for a period as specified in the Curriculum during summer / winter vacation. In this case the training has to be undergone continuously for a period of 2 weeks in an organization.

In lieu of Industrial training, students may undergo Internship at Industry / Research organizations / University (after due approval from Head of the Department) during the IV, V or VI semester breaks for a continuous period of 30 days (either in 1 slot or in 2 slots of 15 days each) to an Industry /Organization / University and two credits are allotted in the sixth semester based on a vivavoce examination.

5.7 INDUSTRIAL VISIT

Every student is required to go for at least one Industrial visit every semester starting from the first year of the Programme. The Heads of Departments shall ensure that necessary arrangements are made in this regard.

5.8 VALUE ADDED COURSES

Students may optionally undergo Value Added Courses and the credits earned through the Value Added Courses shall be over and above the total credit requirement prescribed in the curriculum for the award of the degree. One/Two credit courses shall be offered by a Department with the prior approval from the Dean – Academics. Thedetails of the syllabus, timetable and faculty may be sent to the Dean - Academics after approval from the Head of the Department concerned. Students can take a maximum oftwo ‘one credit courses’ or one ‘two credit course’. They shall be

allowed to take one/two credit courses offered in other departments with the permission of the Head of theDepartment offering the course. The credits earned will be reflected in the Grade Sheet but not considered for CGPA Calculation.

5.9 ONLINE COURSES, EVALUATION & CREDIT EQUIVALENCE

Students are encouraged to take up a maximum of three online MOOCs courses during their Engineering study. The following are the guidelines to pursue SWAYAM - NPTEL courses during his/her study period:

- If a student wishes to pursue a SWAYAM - NPTEL course in a latter semester, he/she must get the approval from the Head of the Institution through proper channel at least three months before the start of the new semester as the NPTEL course list is announced 6 months ahead of the course start date and enrollments for the course are opened 2 months ahead of the course start date and closes on the start date.
- A student can opt to pursue a SWAYAM - NPTEL course as an open elective/Professional Elective offered in the curriculum under **R2023** (during semesters IV, V or VI except semester VII) after getting proper validation about the course from his/her class advisor, HoD and Dean Academics.
- The course opted by the student should have a minimum of 3 credits [12-week course].
- The progress of the student in the course shall be periodically monitored by the respective class advisor.
- The students who wish to take up SWAYAM - NPTEL courses are given the following two options:

a. The student can opt to take up the exam conducted by Swayam and obtain the certificate by separately registering for the certificate and appearing in person for a proctored exam. There shall not be any separate internal assessments in the college for students taking up SWAYAM - NPTEL courses, as assessments are a part of the respective Swayam program. The grades/credits mentioned in the certificate will be considered as it is by Jerusalem College of Engineering.

(OR)

b. The students can opt to write the end semester examination for the enrolled SWAYAM - NPTEL course at Jerusalem College of Engineering. The student shall declare the NPTEL login details to the class advisor and take up the assignments/assessments as defined in the Swayam program, which shall be considered for internal marks for the corresponding course in the respective semester. The class advisor shall monitor the progress of the student periodically by consolidating the hardcopies of mark statements

(taken from the NPTEL portal) secured by the student in all the assessments, as defined in the program and shall calculate the marks out of 40 which shall then be forwarded to the office of COE, JCE through Dean Academics, JCE. The exam fee for the online course shall be defined by the office of COE, JCE from time to time.

- A student is not permitted to withdraw from the SWAYAM - NPTEL course once the semester begins (permitted to withdraw before the semester begins). If he/she is unable to succeed in the e-certification exam or college exam, then the result for the open elective/ Professional Elective course in the respective semester, will be declared as REAPPEAR (RA). To clear the course in both cases, the student should appear for the end semester examination conducted by the college in the subsequent semester.

5.10 MEDIUM OF INSTRUCTION

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

6 DURATION OF THE PROGRAMME

6.1 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) candidates and not more than 12 semesters for Lateral Entry Candidates.

6.2 Each semester shall normally consist of 75 working days or 540 periods of 50 minutes each. The Head of the Institution 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.

6.3 The Head of the Department may conduct additional classes with prior approval of Head of the Institution for improvement, special coaching, conduct of model test etc., over and above the specified periods. But for the purpose of calculation of attendancerequirement for writing the end semester examinations (as per clause 7) by the students, following method shall be used.

Percentage of Attendance

$$= \left[\frac{Total\ No.of\ periods\ attended\ in\ all\ \text{the}\ courses\ per\ semester}{\left(\begin{matrix} No.of\ periods/week\ as\ prescribed\ in\ \text{the}\ curiculum \\ taken\ togeter\ for\ all\ courses\ of\ \text{the}\ semester \end{matrix} \right) \times 15} \right] \times 100$$

The End Semester Examination will follow immediately after the last working day of the semester commencing from I semester as per the academic schedule prescribed from time to time. The total period for completion of the Programme calculated 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 (vide clause 19) in order that he/she may be eligible for the award of the degree (vide clause 17).

7 COURSE REGISTRATION

The Institution is responsible for registering the courses that each student is proposing to undergo in the ensuing semester. Each student has to register for all courses to be undergone in the curriculum of a particular semester. The student should also register for courses for which the student has failed in the earlier semesters.

The registration details of the candidates may be approved by the Head of the Institution and forwarded to the Controller of Examinations. This registration is for undergoing the course as well as for writing the End Semester Examinations. No Elective course shall be offered by any department unless a minimum 10 of students register for the course.

However, if the students admitted in the associated Branch and Semester is less than10, this minimum will not be applicable.

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

I. Courses of the current semester.
II. The core (Theory/Lab /EEC) courses that the student has not cleared in the previous semesters.
III. Elective courses which the student failed (either the same elective or a Different elective instead).

The maximum number of credits that can be registered in a semester in 36. However, this does not include the number of Re-appearance (U) and Withdrawal (WD) courses registered by the student for the appearance of examination.

8 ATTENDANCE REQUIREMENTS FOR COMPLETION OF THE SEMESTER

8.1 A student 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 of all the courses and secure 100% attendance. However, in order to give provision for certain unavoidable reasons such as medical / participation in sports, the student is expected to attend atleast 75% of the classes. Therefore, he/she shall secure not less than 75% (after rounding off to the nearest integer) of overall attendance as calculated as per clause 6.3.

8.2 However, a candidate **who secures overall attendance between 65% and 74%** in the current semester due to medical reasons (prolonged hospitalization / accident / specific illness) / Participation in Sports events may be permitted to appear for the current semester examinations subject to the condition that the candidate shall submit the medical certificate /sports participation certificate attested by the Head of the Institution. The same shall be forwarded to the Controller of Examinations for record purposes.

8.3 Candidates who **secure less than 65% overall attendance** shall not be permitted to write the End Semester Examination and not permitted to move to the next semester. They are required to repeat the incomplete semester in the next academic year, as per the norms prescribed.

9 CLASS ADVISOR

There shall be a class advisor for each class. The class advisor will be one among the (course-instructors) of the class. He / She will be appointed by the HoD of the department 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 HoD 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 students' welfare activities like awards, medals, scholarships and industrial visits.

10 CLASS COMMITTEE

10.1 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' (more commonly used in industries) with the overall goal of improving the teaching -learning process.

The functions of the class committee include

- Creating awareness on the vision, mission, PEOs, POs and PSOs of the Department.
- 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 6 and 8) which should be displayed on college Notice-Board.**

- Informing the student representatives, the academic schedule including the datesof assessment tests and the syllabus coverage for each assessment test.
- Informing the student representatives, the details of Regulations regarding weightage used for each assessment test. 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 findingthe ways and means of solving problems, if any.
- Identifying the slow learners, if any, and requesting the teachers concerned to provide some additional help or guidance or coaching to such weak students

10.2 The class committee for a class under a particular branch is constituted by the Head of the Department.

10.3 The class committee shall be constituted within the first week of each semester.

10.4 At least 4 student representatives (usually 2 boys and 2 girls) shall be included in the class Committee **(or)** All the students in a particular class shall be included in class Committee.

10.5 The Chairperson of the class committee may invite the class advisor and the Head of the Department to the class committee meeting.

10.6 The Head of the Institution may participate in any class committee of the institution.

10.7 The chairperson is required to prepare the minutes of every meeting, submit the same. To Head of the Institution through Head of the Department 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.

10.8 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 sequent 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.

During these meetings, students shall meaningfully interact and express their opinions and give suggestions in order to improve the effectiveness of the teaching-learning process.

11 COURSE COMMITTEE FOR COMMON COURSES

Each common theory course offered to more than one discipline or group, shall have a "Course Committee" comprising of all the faculty 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 / Head of the Institution depending upon whether all the faculty 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).

12 SYSTEM OF EXAMINATION

12.1 Performance in each course of study shall be evaluated based on (i) continuous internal assessment throughout the semester and (ii) Examination at the end of the semester.

12.2 Each course, both theory and practical (including project work & viva voce examinations) shall be evaluated for a maximum of 100 marks.

- **12.2.1** For all theory courses, the continuous internal assessment will carry **40 marks** while the End Semester examination will carry **60 marks.**
- **12.2.2** For all theory courses with laboratory component, the continuous internal assessment will carry **50 marks** while the End Semester examination will carry **50 marks.**
- **12.2.3** For all laboratory courses, the continuous internal assessment will carry **60 Marks** while the End Semester examination will carry **40 marks.**
- **12.2.4** The continuous internal assessment for the project work will carry **60 marks** while the End Semester examination will carry **40 marks**

12.3 Industrial Training and Seminar shall carry 100 marks and shall be evaluated through internal assessment only.

12.4 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.

12.5 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.

12.6 For the End Semester examination of practical courses including Project Work, the internal and external examiners shall be appointed by the Controller of Examinations.

13 PROCEDURE FOR AWARDING MARKS FOR INTERNAL ASSESSMENT

For all theory, laboratory courses, theory courses with laboratory component and project work the continuous assessment shall be awarded as per the procedure given below:

13.1 THEORY COURSES

Two assessments each carrying 100 marks shall be conducted during the semester by the Department concerned. The total marks obtained in all assessments put together out of 200, shall be proportionately reduced for 40 marks and rounded to the nearest integer (This also implies equal weightage to the two assessments).

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

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

Two internal assessments will be conducted as a part of continuous assessment. Each internal assessment is assessed for 100 marks and will have to be distributed in two parts viz., Individual Assignment/Case study/Seminar/Mini project and Test with each having a weightage of 40% and 60% respectively. The tests shall be in written mode. The total internal assessment marks of 200 shall be converted into a maximum of 40 marks and rounded to the nearest integer.

13.2 LABORATORY COURSES

The maximum marks for Internal Assessment shall be 60 marks in case of practical courses. Every practical exercise / experiment shall be evaluated based on conduct of experiment / exercise and records to be maintained. There shall be at least one test. The criteria for arriving at the Internal Assessment Marks of 60 are as follows: 75 marks shall be awarded for successful completion of all the prescribed experiments done in the Laboratory and 25 marks for the test. The total mark shall be converted into a maximum of 60 marks and rounded to the nearest integer.

Internal Assessment (100 Marks)*	
Evaluation of Laboratory Observation, Record	Test
75	25

* Internal assessment marks shall be converted into 60 marks

13.3 THEORY COURSES WITH LABORATORY COMPONENT

Weightage of internal assessment and end semester marks will be 50% each.. The distribution of marks for 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 Assessment 1	Internal Assessment 2	End Semester Examination
1	0	4	3	Lab (25%)	Theory (25%)	Lab only (50%)
1	0	2	2	Lab (25%)	Theory (25%)	Lab only (50%)
2	0	2	3	Theory (25%)	Lab (25%)	Theory (25%) Lab (25%)
3	0	2	4	Theory (25%)	Lab (25%)	Theory (35%) Lab (15%)
2	0	4	4	Theory (25%)	Laboratory (25%)	Theory (15%) Lab (35%)

The procedure for the conduct of internal assessments for theory and laboratory components shall be as per clause 13.1 and 13.2 respectively.
The weighted average shall be converted to 50 marks, for internal assessment.

13.4 PROJECT WORK

The student shall register for Project Work in final semester. Project work may be allotted to a single student or to a group of students not exceeding 4 per group. The student is also permitted to undergo a semester long internship in an industry / academic / research institution.

13.4.1 Project Work shall be carried out under the supervision of a "qualified teacher" in the Department concerned. In this context "qualified teacher" means the faculty member possessing (i) PG degree or (ii) Ph.D. degree.

13.4.2 The Project Work carried out in industry/academic/research institution shall be jointly Supervised by a supervisor of the department and an expert as a joint supervisor from the organization and the student shall be instructed to meet the supervisor periodically and to attend the review committee meetings for evaluating the progress. The review meetings, if necessary, may also be arranged in online mode with prior approval from the Head of the Institution and suitable record of the meetings shall be maintained.

13.4.3 A review committee for Project Work shall be constituted for each programme. The review committee consists of supervisor, an expert from the Department and a project coordinator from the Department. If the project coordinator/expert member happens to be the supervisor, then an alternate member shall be nominated. In the case of Industrial Project, the review committee shall have the supervisor, the coordinator from industry and the project coordinator from the Department.

There shall be three reviews conducted by the review committee. The student shall make presentation on the progress made by him / her before the committee. The total marks obtained in the three reviews shall be **reduced for 60 marks** and rounded to the nearest integer (as per the scheme given in 13.4.4).

13.4.4 The project report shall carry a maximum of 10 marks. The project report shall be submitted as per the approved guidelines as given by the Dean - Academics. Same marks shall be awarded to every student within the project group for the project report. The viva-voce examination shall carry 30 marks. Marks awarded to each student of the project group is based on the individual performance in the viva- voce examination.

Continuous Assessment (60 Marks)			**End Semester Examinations (40 Marks)**			
Review I	**Review II**	**Review III**	**Project Report**	**Viva-Voce Examination**		
20	20	20	External	Internal	External	Supervisor
			10	10	10	10

In the case of Industrial projects, the marks allotted for supervisor will be shared equally by the supervisor from the Department and coordinator from Industry.

13.4.5 The last date for submission of the project report is on the last working day of the semester. If a student fails to submit the project report on or before the specified deadline or the student has submitted the project report but did not appear for the viva-voce examination, it will be considered as fail in the Project Work and the student shall re-register for the same in the subsequent semester.

13.4.6 Students shall also undertake a start-up activity for the development of products as part of project work. If the outcome of a start-up is a fully developed product and whose concept is tested and validated, then it shall be considered in lieu of the project work. Such students shall submit a start up report, which includes the concepts and process flow of the developed product, publications and patents, if any. The evaluation of the start-up report is as per the clause 13.4.4.

13.5 OTHER EMPLOYABILITY ENHANCEMENT COURSES

(a) The Seminar / Case Study / Mini Project course is to be considered as purely INTERNAL (with 100% internal marks only). Every student is expected to present a minimum of 2 seminars per semester before the evaluation committee and for each seminar, marks can be equally apportioned. The three member committee appointed by the Head of the Institution, consisting of the course coordinator and two experts from the Department, will evaluate the seminar and at the end of the semester, the marks shall be consolidated and taken as the final mark. The evaluation shall be based on the seminar paper (40%), presentation (40%) and response to the questions asked during presentation (20%).

(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 student shall submit an attendance 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 Institution consisting of the course coordinator and two experts from the Department. The certificates (issued by the organization) submitted by the students shall be attached to the mark list sent by the Head of the Institution to the Controller of Examinations.

(c) For all the courses under Employability Enhancement Courses Category except project work the evaluation shall be done with 100% internal marks and as per the procedure described in clause 13.5 (a) / (b) and is considered for CGPA calculation.

13.6 ASSESSMENT FOR VALUE ADDED COURSES

The value added course shall carry 100 marks and shall be evaluated through continuous assessments only. Two Assessments shall be conducted during the semester by the Department concerned. The total marks obtained in the assessments shall be reduced to 100 marks and rounded to the nearest integer. A committee consisting of the Head of the Department, staff handling the course and a senior faculty member nominated by the Head of the Institution shall do the evaluation process. The list of students along with the marks and the grades earned shall be

forwarded to the Controller of Examinations for appropriate action at least one month before the commencement of End Semester Examinations. The grades earned by the students for Value Added Courses will be recorded in the Grade Sheet, however the same shall not be considered for the computation of CGPA.

13.7 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 and date after due verification. At the end of the semester, the record should be verified by the Head of the Institution.

13.8 CONDUCT OF ACADEMIC AUDIT BY EVERY INSTITUTION

Every educational institution shall strive for a better performance of the students by conducting the internal assessments as mentioned in Clause 13.

In order to ensure the above, Academic Audit is to be done for every course taught during the semester. For the internal assessments conducted for each course as per details provided in Clause 13, the academic records shall be maintained in the form of documentation for the individual assignments / case study report / report of mini project submitted by each student and assessment test question paper and answer script. Report of industrial training / internship shall also be maintained, if applicable. For laboratory courses students' record shall be maintained. Further, the attendance of all students shall be maintained as a record.

The Head of the Institution shall arrange to conduct the Academic Audit for every course in a semester by forming the respective committees with an external course expert as one of the members.

14 REQUIREMENTS FOR APPEARING FOR END SEMESTER EXAMINATIONS

A student shall normally be permitted to appear for the End Semester Examinations for all the courses registered in the current semester (vide clause7) if he/she has satisfied the semester completion requirements (as per clause 8).

Further, examination registration by a student is mandatory for all the courses in the current semester and all arrear(s) course(s) for the End Semester Examinations failing which, the student will not be permitted to move to the higher semester.

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

15 PASSING REQUIREMENTS

15.1 A student who secures not less than 50% of total marks prescribed for the course [Internal Assessment + End Semester Examinations] with a minimum of 45% of the marks prescribed for the End Semester 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).

15.2 If a student fails to secure a pass in a theory course / laboratory course (except electives), the student shall register and appear only for the End Semester Examination in the subsequent semester. In such case, the internal assessment marks obtained by the student in the first appearance shall be retained and considered valid for all subsequent attempts till the student secures a pass. However, from the third attempt onwards if a student fails to obtain pass marks (IA + End Semester Examination) as per clause 15.1, then the student shall be declared to have passed the examination if he/she secures a minimum of 50% marks prescribed for the End Semester Examinations alone.

15.3 If the course, in which the student has failed, is a Professional Elective or an Open Elective course, the student may be permitted to complete the same course**.** In such case, the internal assessment marks obtained by the student in the first appearance shall be retained and considered valid for all subsequent attempts till the candidate secures a pass. However, from the third attempt onwards if a candidate fails to obtain pass marks (IA + End Semester Examination) as per clause 15.1, then the candidate shall be declared to have passed the examination if he/she secures a minimum of 50% marks prescribed for the End Semester Examinations alone.

If any other Professional Elective or Open Elective course is opted by the student, the previous registration is cancelled and henceforth it is to be considered as a new Professional Elective or Open Elective course. The student has to register and attend the classes, earn the continuous assessment marks, fulfill the attendance requirements as per clause 8 and appear for the End Semester Examination.

15.4 If a student has submitted the project report but absent in the end semester examination of project work, the student is deemed to be failed. In this case and also if a student attends and fails in the End semester examination of Project work of B.E. / B.Tech, he/she shall attend end semester examination again within 60 days from the date of declaration of the results. The subsequent viva-voce examination will be considered as reappearance with payment of exam fee. In case, the student fails in the subsequent viva-voce examination also, the student shall redo the course again, when offered next.

15.5 The passing requirement for the courses which are assessed only through purely

internal assessments (EEC courses except Project Work and laboratory), is 50% of the internal assessment (continuous assessment) marks only.

15.6 A student can apply for revaluation of the student's End Semester Examination answer paper in a theory course, as per the guidelines of the COE on payment of a prescribed fee along with prescribed application to the COE. The COE will arrange for the revaluation and the results will be intimated to the student concerned. Revaluation is not permitted for laboratory courses and EEC courses.

16 AWARD OF LETTER GRADES

16.1 Grading of Courses

The grades and corresponding grade points are presented in the table given below

Grading of Courses

Grade	Description	Grade Points
S	**Outstanding** performance with respect to course learning objectives: exhibits original and creative thinking and demonstrates the ability to analyze critically and synthesize information	10
A+	**Excellent** performance with respect to course learning objectives and creative thinking	9
A	**Very Good** achievement with respect to course learning objectives	8
B	**Good** achievement with respect to course learning objectives	7
B+	**Above Average** achievement with respect to course learning objectives	6.5
C+	**Average** achievement with respect to course learning objectives	6
C	**Satisfactory** achievement	5
U	**Re- appearance**	0
SA	**Shortage of Attendance**	0
WC	**Withdrawal of Course**	0

16.2 (i) Absolute grading system shall be followed for all category of courses. Range of marks for corresponding grades is presented in the table given below.

Range of Marks for Grades

S	A+	A	B+	B	C+	C	U
91-100	81-90	71-80	66-70	61-65	56-60	50-55	<50

For NPTEL/SWAYAM courses alone the corresponding range of marks for each grade is presented in the table given below

Range of Marks for grading of NPTEL Courses

S	A+	A	B+	B	C+	C	U
91-100	81-90	71-80	61-70	51-60	46-50	40-45	<40

16.3 GRADE SHEET

After results are declared, Grade Sheets will be issued to each student which will contain the following details:

- The list of courses registered during the semester and the grade scored.
- The Grade Point Average (GPA) for the semester considering only the courses of curriculum (not the additional courses) and
- The Cumulative Grade Point Average (CGPA) of all courses enrolled from first semester onwards.

GPA for a semester is the ratio of the sum of the products of the number of credits acquired for courses and the corresponding points to the sum of the number of credits acquired for the courses in the semester. CGPA will be calculated in a similar manner, considering all the courses registered from first semester. RA grades will be excluded for calculating GPA and CGPA.

$$\text{GPA/CGPA} = \frac{\sum_{i=1}^{n} C_i GP_i}{\sum_{i=1}^{n} C_i}$$

where $\mathbf{C_i}$ is the number of Credits assigned to the course

$\mathbf{GP_i}$ 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.

16.3.1 If a student studies more number of professional and open electives than required as per the student's programme curriculum, the calculation of final CGPA shall be as per 17.1.8 and 17.1.9.

16.3.2 If a student successfully completes all the requirements of the programme and also meets the requirements of B.E. / B. Tech. (Hons) or B.E. / B. Tech. Minor but desires not to opt for the additional qualification, then he/she has to submit a declaration with regard to the same 30 days before the completion of VIII semester.

16.3.3 In the consolidated grade sheet the CGPA earned shall be converted into percentage of marks as follows: Percentage of Marks = CGPA × 10.

17 ELIGIBILITY FOR THE AWARD OF THE DEGREE

17.1 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 within the period as prescribed in clause 6.1.
iii. Successfully passed any additional courses prescribed by the Dean Academics whenever the student is readmitted under Regulations 2023 from the earlier Regulations.
iv. Successfully completed the NCC / NSS / NSO / YRC / Science Club / Literature Club / Fine Arts Club requirements.
v. No disciplinary action pending against the student.
vi. The award of Degree must have been approved by the Syndicate of the University.

17.1.1 B.E. / B.Tech. Honours

A student shall be declared to be eligible for the award of B.E./B.Tech. Honours degree provided the student has satisfied the conditions prescribed in 17.1.1 and has

1. Earned a minimum of 18 credits from more than one vertical (Professional Elective Courses) of the same programme from semester V onwards.
2. Passed all the courses in the first attempt**.**
3. Earned a minimum CGPA of 7.50 taking into account of all the courses prescribed in the curriculum and additional courses.

17.1.2 B.E. / B.Tech. Minor with Specialization in Another Discipline

A student shall be declared to be eligible for the award of B.E./B.Tech. degree with Minor in another discipline provided the student has satisfied the conditions prescribed in 17.1 and has

1. Earned additionally a minimum of 18 credits from semester V onwards in any of the verticals offered by other engineering disciplines / Science and Humanities / Management.

2. Earned a minimum CGPA of 7.50 until semester III and have cleared all the courses in the first attempt.

17.1.3 B.E / B.Tech. (Hons.) and B.E./B.Tech. minor with specialisation in another discipline will be optional for students and the students shall be permitted to select any one of them only.

17.1.4 For the category 17.1.1, the students, including Lateral Entry, shall be permitted to register for the courses from Semester V onwards provided the students have earned a minimum CGPA of 7.50 until Semester III and have cleared all the courses in the first attempt.

17.1.5 For the category 17.1.2, the students, including Lateral Entry, will be permitted to register the courses from Semester V onwards provided the marks earned by the students until Semester III is CGPA 7.50 and above.

17.1.6 B.E/B.Tech. (Hons.) or B.E./ B.Tech. Minor shall be offered by the Department irrespective of the number of students enrolled.

17.1.7 It is suggested that a student opting for the above degrees pursue atleast two courses out of the six courses required, through NPTEL.

17.1.8 If a student decides not to opt for Honours, after completing certain number of additional courses, the additional courses studied shall be considered instead of the Professional Elective courses which are part of the curriculum. If the student has studied more number of such courses than the number of Professional Elective courses required as per the curriculum, the courses with higher grades shall be considered for the calculation of CGPA. Remaining courses shall be printed in the mark sheet, however, they will not be considered for calculation of CGPA.

17.1.9 If a student decides not to opt for Minor, after completing certain number of courses, the additional courses studied shall be considered instead of Open Elective courses which are part of the curriculum. If the student has studied more number of such courses than the number of open electives required as per the curriculum, the courses with higher grades shall be considered for calculation of CGPA. Remaining courses shall be printed in the mark sheet, however, they will not be considered for calculation of CGPA.

17.2 CLASSIFICATION OF THE DEGREE AWARDED

17.2.1 First Class with Distinction

Degree (i)	Duration of programme (ii)	Duration permitted (iii)	Additional credits above the requirement of curriculum (iv)	CGPA (v)	Pass in (vi)	Break of Study (vii)	Prevention due to lack of attendance	Withdrawal from writing end semester examination (viii)
B.E./ B.Tech. (Regular)	4 years	5 years	-	8.50	First attempt	One year authorised break of study included in the Duration permitted (iii)	Not permitted	Will not be considered as an attempt
B.E./ B.Tech (Lateral Entry)	3 Years	4 Years	-	8.50	First attempt	One year authorised break of study included in the duration permitted (iii)	Not permitted	Will not be considered as an attempt
B.E./ B.Tech. (Honours)	3/4 years (Lateral entry, Regular, respectively)	4/5 years (Lateral entry Regular – respectively)	18 credits from more than one vertical of the same programme	8.50	First attempt	One year authorised break of study included in the duration permitted (iii)	Not permitted	Will not be considered as an attempt
B.E./ B.Tech. Minor in other Specialisation	3/4 years (Lateral entry, Regular, respectively)	4/5 years (Lateral entry Regular – respectively)	18 credits from any one vertical of the other programme	8.50	First attempt	One year authorised break of study included in the duration permitted (iii)	Not permitted	Will not be considered as an attempt

17.2.2 First Class

Degree (i)	Duration of programme (ii)	Duration permitted (iii)	Additional credits (iv)	CGPA (v)	Pass in (vi)	Break of Study (vii)	Prevention due to lack of attendance	Withdrawal from writing end semester examination (viii)
B.E. /B.Tech. (Regular)	4 years	5 years	-	6.50	-	One year authorised break of study included in the Duration permitted (iii)	Included in the Duration permitted (iii)	-
B.E./ B.Tech (Lateral Entry)	3 Years	4 Years	-	6.50	-	One year authorised break of study included in the duration permitted (iii)	Included in the Duration permitted (iii)	-
B.E./ B.Tech. (Honours)	3/4 years (Lateral entry, Regular, respectively)	4/5 years (Lateral entry Regular – respectively)	18 credits from more than one vertical of the same programme	7.50	First attempt	One year authorised break of study included in the duration permitted (iii)	Not permitted	Will not be considered as an attempt
B.E./ B.Tech. Minor in other Specialisation	3/4 years (Lateral entry, Regular, respectively)	4/5 years (Lateral entry Regular – respectively)	18 credits from any one vertical of the other programme	6.50	-	One year authorised break of study included in the duration permitted (iii)	Included in the Duration permitted (iii)	-

17.2.3 Second Class

B.E./B.Tech. Regular, lateral entry and B.E./B.Tech. minor in other specialization degree students (not covered in clauses 17.2.1 and 17.2.2) who qualify for the award of the degree (vide Clause 17.1) shall be declared to have passed the examination in **Second Class.**

17.2.4 Student earned additional 18 credits as per Clause 17.1.1 and 17.1.2 but does not satisfy the conditions mentioned in 17.2.1 or 17.2.2 shall not be awarded B.E./B.Tech.Honours. in such cases the mark sheet will show the additional Course studies and those courses shall not be considered for CGPA computation. In such case if the student becomes eligible for First Class, while computing CGPA without taking into account the additional course studied, the student shall be awarded B.E./B.Tech. in First Class Only

17.3 A student who is absent in end semester examination in a course / project work after having registered for the same shall be considered to have appeared in that Examination for the purpose of classification. (subject to clause 17).

17.4 Photocopy / Revaluation

A student can apply for photocopy of his/her semester examination answer paper in a theory course, as per the guidelines of the COE, on payment of a prescribed fee through proper application to the Controller of Examinations through the Head of the Institutions. The answer script is to be valued and justified by a faculty member, who has handled the subject and recommend for revaluation with the breakup of marks for each question. Based on the recommendation, the student 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 student concerned through the Head of the Institutions. Revaluation is not permitted for practical courses and EEC courses.

A student can apply for revaluation of answer scripts for not exceeding 5 subjects at a time.

17.5 Review

Students not satisfied with Revaluation can apply for Review of his/ her examination answer paper in a theory course, within the prescribed date on payment of a prescribed fee through proper application to the Controller of Examinations through the Head of the Institution.

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

18 PROVISION FOR WITHDRAWAL FROM END-SEMESTER EXAMINATION

18.1 A student may, for valid reasons, (medically unfit / unexpected family situations / sports approved by the Chairman, Sports Board and the 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 the COE through the Head of the Institutions with required documents.

18.2 Withdrawal application is valid if the student is otherwise eligible to write the examination (Clause 8) and if it is made within TEN days after the date of the examination(s) in that course or courses and recommended by the Head of the Institution and approved by the Controller of Examinations. For a student to withdraw from a course / courses, he/she should have registered for the course, fulfilled the attendance requirements (vide clause 8) and earned continuous assessment marks.

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

18.3 In case of withdrawal from a course / courses, the courses will figure both in the Grade Sheet as well as in the Result Sheet. However, withdrawal shall not be Considered as an appearance for the eligibility of a student for First Class with Distinction.

18.4 If a student withdraws from writing end semester examinations for a course or courses, he/she shall register for the same in the subsequent semester and write the end semester examination(s).

18.5 If a student applies for withdrawal from Project Work, he/she will be permitted for the withdrawal only after the submission of project report before the deadline. However, the student may appear for the viva voce examination within 60 days after the declaration of results for Project Work and the same shall not be considered as reappearance.

18.6 Withdrawal is permitted for the end semester examinations in the final semester, as per clause 17.2.1.

19 PROVISION FOR AUTHORISED BREAK OF STUDY

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

19.2 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 student may apply for additional break of study not exceeding another one year. If a student intends to temporarily discontinue the programme in the middle of the semester for valid reasons, and to re-join the programme in a subsequent year, permission may be granted based on the merits of the case provided he / she applies to the Dean, Student Affairs in advance, but not later than the last date for registering for the end semester examination of the semester in question, through the Head of the Institution stating the reasons therefore and the probable date of re-joining the programme.

19.3 The student permitted to re-join 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 re-joining. The students re-joining in new Regulations shall register for additional courses, if any, as notified by the Dean Academics under change of Regulations. These courses may be from any of the semesters of the curriculum in force, so as to bridge the curriculum in force and the old curriculum. In such cases, credits to be earned by the student may be more than or equal to the total number of credits prescribed in the curriculum in force.

19.3.1 Total number of credits to be earned by the student shall be more than or equal to the total number of credits prescribed in the curriculum in force. If the credit assigned for L T P of the courses are not same in two Regulations under consideration, then equivalence shall be arrived as per the credit assignment followed in the Regulations in force.

19.4 The authorized break of study is included in the duration specified for passing all the courses for the purpose of classification (vide Clause 17.2).

19.5 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 6.1 irrespective of the period of break of study in order that he/she may be eligible for the award of the degree.

19.6 If any student is prevented for want of required attendance, the period of prevention shall not be considered as authorized 'Break of Study' (Clause 19.1).

19.7 If a student in Regular mode wants to take up a job / start-up / entrepreneurship during the period of study he/she shall apply for authorised break of study for one year. The student shall join the job / start-up / entrepreneurship only after getting approval of the same by the Dean Academics with due proof to that effect.

19.8 No fee is applicable to students during the Break of Study period.

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 the Institution shall constitute a disciplinary committee consisting of the Head of the Institution, Two Heads of Department of which one should be from the faculty of the student, to enquire into acts of indiscipline. In case of any serious disciplinary action which leads to suspension or dismissal, then a committee shall be constituted including one management representative.

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 COE from time to time.

21 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 with the approval of the Governing Council.

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