



NPR **College of Engineering and Technology**

(AN AUTONOMOUS INSTITUTION)

NBA Accredited (B.E., CSE, ECE, EEE & Mechanical Engg.) | Accredited by NAAC with 'A' Grade
Recognized by UGC under 2 (f) | ISO 9001:2015 Certified | Approved by All India Council for Technical Education, New Delhi
Affiliated to Anna University, Chennai

Natham, Dindigul (Dist.) - 624 401, Tamil Nadu.



REGULATIONS: 2025

CHOICE BASED CREDIT SYSTEM (CBCS)

[Common to all B.E. / B.Tech. Degree Programmes]

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

[Full Time Programmes]

UG – REGULATIONS: R-2025


Controller of Examinations

NPR College of Engineering & Technology

(AUTONOMOUS)

Natham, Dindigul - 624 401


Dr. S. SELVAPERUMAL, ME., Ph.D.

Principal

NPR College of Engineering and Technology (Autonomous)

Natham, Dindigul (Dt)-624 401



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DEGREE OF BACHELOR OF ENGINEERING / BACHELOR OF TECHNOLOGY

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REGULATION 2025

(CHOICE BASED CREDIT SYSTEM)

(Common to all B.E./B.Tech. Degree Programmes)

Regulations 2025 has been prepared in accordance with the guidelines given by the University Grants Commission (UGC), All India Council for Technical Education (AICTE) and affiliating University which includes the features of the Choice Based Credit System (CBCS). This Regulation is applicable to the students admitted to the Bachelor of Engineering (B.E.) / Bachelor of Technology (B.Tech.) Degree Programmes from the Academic year 2025-2026 onwards in NPR College of Engineering and Technology (Autonomous), NPR Nagar, Natham, Dindigul- 624 401.

1. PRELIMINARY DEFINITIONS AND NOMENCLATURE

In this Regulation, unless the context otherwise specifies:

- i) **“Programme/Branch”** means the cohesive arrangement of courses, co-curricular and extra-curricular activities to accomplish predetermined objectives leading to the awarding of a degree.
- ii) **“Degree”** means that academic award conferred upon a student on successful completion of a programme. It is referred to as Under Graduate (UG) Degree that is B.E. / B.Tech. Degree.
- iii) **“Discipline”** means specialization or branch of B.E./B.Tech. Programme, like Civil Engineering, Information Technology, etc.
- iv) **“Course”** means a Theory / Laboratory / Theory Integrated with Laboratory subject /Laboratory Integrated with Theory/ Project that is normally studied in a semester, like Mathematics, Engineering Practices Laboratory, etc.
- v) **“Head of the Department (HoD)”** means the Head of the concerned Discipline.
- vi) **“Director - Academics”** means the authority coordinates all academic activities of the Institution.
- vii) **“Controller of Examinations (CoE)”** means the authority of the Institution who is responsible for all activities related to the Continuous Internal Assessment (CIA) and End Semester Examinations.

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- viii) **“Head of the Institution”** means the Principal of the Institution.
ix) **“Institution”** means NPR College of Engineering and Technology.
x) **“University”** means Anna University, Chennai.

2. ADMISSION

Candidate, seeking admission to the B.E./B.Tech. Programme, shall satisfy the eligibility conditions prescribed by the Directorate of Technical Education (DoTE) and Anna University, Chennai as given below,

2.1 Regular Admission

2.1.1 For admission to the first semester of the eight semesters B.E./B.Tech. Programmes shall be required to have passed:

- Higher Secondary Examination (10+2) of curriculum (Regular Academic Stream) prescribed by the Government of Tamil Nadu with Mathematics, Physics and Chemistry as three of the four subjects of the study prescribed under Part-III or any other examinations of any Board or University or authority accepted by the Syndicate of the University / DoTE, Chennai as equivalent thereto.

(or)

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

2.1.2 The eligibility criteria such as marks, number of attempts and physical fitness shall be as prescribed by the affiliating University and Government of Tamil Nadu from time to time. The institution shall adapt the same.

2.2 Lateral Entry Admission

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. Programmes in the branch of study as per the eligibility criteria prescribed by the DoTE from time to time.

(or)

The candidates who possess the Bachelor 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. Programmes, as per the eligibility criteria prescribed by the DoTE from time to time. Such candidates shall undergo two additional Engineering subjects(s)/ Course(s) in the third and fourth semesters as prescribed by the University.


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3. PROGRAMMES OFFERED

A candidate may be offered admission to any one of the programmes approved by AICTE, and offered by the Institution.

Details of the Programmes currently offered by the Institution are listed below:

B. E. Programmes

- i. Civil Engineering
- ii. Computer Science and Engineering
- iii. Electrical and Electronics Engineering
- iv. Electronics and Communication Engineering
- v. Mechanical Engineering
- vi. Computer Science and Engineering (Artificial Intelligence & Machine Learning)
- vii. Computer Science and Engineering (Cyber Security)

B. Tech. Programmes

- i. Artificial Intelligence and Data Science
- ii. Information Technology

4. STRUCTURE OF THE PROGRAMME

4.1 Categorization of Courses

Every Programme shall have a distinct curriculum with syllabi consisting of Theory, Laboratory, Project, Soft-Skills and Personality Development Courses, as prescribed by the respective Boards of Studies, broadly categorized under:

- (i) **Humanities, Social Science and Management Courses (HSMC)** include Language Courses, Human Values and Ethics, Financial Management courses, etc.
- (ii) **Basic Science Courses (BSC)** include Mathematics, Physics, Chemistry and Biology further specialization in these subjects
- (iii) **Engineering Science Courses (ESC)** include Engineering Graphics, Basics of Electrical/ Electronics/ Civil/ Mechanical/Computer Engineering, etc.
- (iv) **Professional Core Courses (PCC)** include the core courses relevant to the chosen specialization/Programme.
- (v) **Professional Elective Courses (PEC)** includes the elective courses relevant to the chosen specialization/ Programme.
- (vi) **Open Elective Courses (OEC)** include the courses offered by a branch to other programmes, 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, Value Added Course, Certificate Course and Industrial / Practical Training etc.

(viii) **Mandatory Courses (MC)** include the courses such as Induction Program, Constitution of India, Sangam Literature, etc.

(ix) All students shall earn non – academic credit (NCC, NSS, NSO, YRC, etc.) as suggested in the programme curriculum as and when offered.

4.2 Induction Programme

The Students are expected to undergo a mandatory induction programme comprising of Physical Activity, Creative Arts, Universal Human Values, Proficiency Modules, Lectures by eminent people, visit to local areas and familiarizations to department and innovations immediately after admission in the first year.

4.3 Personality and Character Development

All students shall enroll, on admission, in any one of the following Personality and Character Development Programmes:

NCC/NSS/NSO/YRC and undergo training/conduct activities 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.

National Cadet Corps (NCC) will have about 20 parades.

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

The training activities will normally be during weekend and the camp will normally be during semester holidays.

Alternately, students shall conduct and participate actively in Science Club/Literary club/Fine Arts club activities for 80 hours and participate in ONE event, which also help for Personality and Character Development.

Science Club shall organize activities of popularization of science and scientific temper through activities related to astronomy, works of great scientists from India and abroad, observing National Science Day, etc.

Literary Club like ‘Tamil Ilakkiya Mandram’ shall be formed, which shall organize colorful literary events to propagate good humanist values, morals and ethics reflected in the literature.

Fine Arts Club like music, painting and documentary films with social themes shall be encouraged.

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Students who enroll and take active participation in any of the above activities will be given a certificate by the Head of the Institution and the copy of the same shall be forwarded to the Controller of Examinations for the purpose of record and scrutiny.

4.4 Number of Courses per Semester

Each semester curriculum shall normally have a blend of lecture courses not exceeding seven Theory Courses which includes Theory Integrated Laboratory Courses and Four Laboratory Courses which include Employability Enhancement Course(s) and Laboratory Integrated Theory Courses. However, the total number of courses per semester shall not exceed 10.

4.5 Credit(s) Assignment

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

CONTACT PERIOD(s) PER WEEK	CREDIT
1 Lecture / 1 Tutorial period	1
2 Laboratory Periods (also for EEC courses like Seminar / Project Work /Case Study, etc.)	1

4.6 Every student shall be permitted to opt for a maximum of **Ten** electives from the list of electives. Students can opt for the electives (Professional/Open) from his / her own discipline courses during IV to VII semesters, if he/she satisfies the prerequisite for that particular course.

4.7 However, out of 10 electives, every student shall be permitted to opt for, a minimum of one and subject to a maximum of three courses as open elective(s) from the list of electives of the branch/branches other than his/her branch(s) of specialization, if he/she satisfies the prerequisite for that particular course.

4.8 Provision to Earn Additional Credits:

4.8.1. Students can also opt for **one-credit courses** of 15 to 20 hours duration, which will be offered by the experts from the industry on specialized topics. Students can opt for such **one-credit courses** during III to VI semester as and when these courses are offered. A student will also be permitted to register the **one-credit courses** offered by other departments, provided the student has fulfilled the necessary prerequisites or the courses that may not require any prerequisites. Under no circumstances, the same one credit course shall be repeated in subsequent semesters in any department for the same batch of students. On successful completion of one credit courses, credits will be indicated in the Grade Sheet, but will not be considered for computing the Cumulative Grade Point Average (CGPA). However, if a student wishes to avail the exemption from any one of the Electives (other than open

elective) of the Semester VII, he/she can do so by exercising his/her option in writing to the respective Head of the Department during the beginning of the VII Semester, following the equivalence norm, that one **regular elective** (in the **VII Semester**) is equivalent to **three one-credit courses** completed by the student during the previous semesters, III to VI. Details of the one credit courses offered by the department shall be forwarded to the Office of the Controller of Examinations.

- 4.8.2. A student can register for only one **Self-Study Elective** during the entire period of study, over and above the electives from any branch of Engineering/Technology starting from V semester onwards provided he/she maintains a CGPA of 8.50 or above till the previous semester with no history of arrears.
- 4.8.3. A student can get exemption for a maximum of 6 credits during the entire programme (in lieu of Core Elective or Open Elective). These online courses shall be chosen from the SWAYAM-NPTEL platform, which conducts regular examination and provides marks. The credits earned shall be transferred and the marks earned shall be converted into grades and transferred, provided the student has passed in the examination as per the norms of the offering organization.

Table: Duration of the course and No. of Credits

S/N.	No. of Weeks	No. of Credits
1	4	1
2	8	2
3	12	3
4	16	4

Table: Mapping of Marks scored in NPTEL course and Credit earned

Letter Grade	Marks
O	90-100
A+	80-89
A	70-79
B+	60-69
B	50-59
C	40-49

4.8.4 - Socially Relevant Projects

A student may be permitted to carry out a socially relevant project during semester II to semester VI in consultation with the Faculty Guide and submit the project report, in the prescribed format, at the end of the Semester for valuation.

On successful completion of socially relevant project work, one credit will be indicated in the grade sheet (Additional Credits), but these credits will not be considered for computing the CGPA.

4.8.5. Value Added Courses

The students may optionally undergo Value Added Courses (VAC) over and above the topics covered in the curriculum to obtain practical and industry specific knowledge. The credits earned through the VAC shall be over and above the total credit requirements prescribed in the curriculum for the award of the degree. One/Two credit courses shall be offered by a department of the institution with the prior approval from the Head of the Institution. The details of the syllabus, time table and course coordinator may be sent to the CoE after getting approval from the Head of the Institution at least one month before the course is offered. Students can take a maximum of two one credit courses/one two credit course during the entire duration of the programme.

4.9 Industrial Training / Internship

The students may undergo Industrial Training for a period as specified in the curriculum during the semester holidays. In this case, the training has to be undergone continuously for a period of at least two weeks in an organization.

The students may undergo Internship at a Research Organization / University/ Industry (after due approval from the Head of the Institution) for the period prescribed in the curriculum during the semester holidays and submit the attendance Certificate mentioning the period of Industrial Training/Internship and signed by the competent authority of the industry, as per the format provided by the Head of the Institution. The attendance certificate shall be forwarded to the CoE by the HoD for processing the results.

If Industrial Training/Internship is not prescribed in the curriculum, the student may undergo Industrial Training/ Internship optionally and the credits earned will be indicated in the grade Sheet. If the student earns three credits in Industrial Training/ Internship, the student may drop one Professional Elective (only one professional elective can be dropped). In such cases, Industrial Training/Internship need to be undergone continuously from one organization or with

a combination one two- week and one four- week from two organizations. However, if the number of credits earned is 1 or 2, then these credits shall not be considered for classification of the degree. Students shall get permission from the Head of the Institution for taking Industrial Training/Internship and the Certificate of completion of Industrial Training / Internship shall be forwarded to the CoE.

Duration of Training / Internship	Credits
2 Weeks (80 Internship Hours)	1
4 Weeks (160 Internship Hours)	2
6 Weeks (240 Internship Hours)	3

4.10 Industrial Visit

Every student is suggested to go for at least one Industrial Visit every semester starting from the second year of the programme. The HoD shall ensure that necessary arrangements are made in this regard.

4.11 Medium of Instruction

The medium of instruction is English for all courses, examinations, seminar presentations and project work reports except for the programmes offered in Tamil Medium.

5. DURATION OF THE PROGRAMME

- 5.1** A regular student (admitted after 10+2) or equivalent is normally expected to satisfactorily fulfill the requirements for award of the degree B.E. / B.Tech. within four academic years (8 semesters) from the date of admission but in any case not more than 7 years (14 semesters); lateral entry students shall fulfill such requirements within three academic years (6 semesters) from the date of admission but in any case not more than six years (12 semesters) leading to the award of Degree of Bachelor of Engineering (B.E.) / Bachelor of Technology (B.Tech.) of Anna University, Chennai.
- 5.2** The total period for completion of the programme from the commencement of the semester, to which the student was admitted, shall not exceed the maximum period (Clause 5.1), regardless to the break-of-study (vide Clause 17) or period of prevention in order.
- 5.3** Each semester shall normally consist of 75 working days / 525 working periods. 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.

5.4 Special Theory / Practical Sessions may be conducted for students who require additional inputs over and above the number of periods normally specified (Remedial Classes), as decided by the HoD, within the specified duration of the semester/programme.

5.5 The following method shall be used for the calculation of attendance percentage for the students at the end of the semester.

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

taken together for all courses of the semester

6. COURSE REGISTRATION

6.1 Each student, on admission shall be assigned to a Mentor (vide Clause 8.2) who shall advise / counsel the student about the details of the academic programme and the choice of course(s) considering the student's academic background and career objectives.

6.2 Each student shall register for all courses to be undergone in the curriculum of a particular semester (with the facility to drop courses to a maximum of 6 credits vide clause 6.5). The courses dropped in earlier semesters can be registered in the subsequent semesters when offered.

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

- i. Courses of the current semester.
- ii. Courses dropped in the lower semesters

6.4 The maximum number of credits that can be registered in a semester is 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.

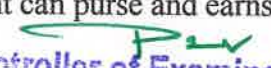
6.5 Flexibility to drop courses

6.5.1 A student has to earn the total number of credits specified in the curriculum of the respective programme of study in order to be eligible to obtain the degree. However, if a student wishes, he/she is permitted to earn more than the total number of credits prescribed in the curriculum by opting for additional credit courses.

6.5.2 From the III to VII semesters (from IV to VII Semesters in case of lateral entry students), the student has the option for dropping existing courses. The total number of credits that a student can drop is limited to 6, subject to a maximum of 2 courses in a given semester. The student is permitted to drop the course(s) within 30 days of the commencement of the academic schedule.

6.6 Flexibility for Exemption of Professional Electives

A student can pursue and earn up to 6 credits from the following:


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1. Online Courses (6 credits)
2. Internship (3 credits)
3. Self –Study Elective (3 credits)
4. Value Added Courses (1 credit/2 credits)
5. In combination of all above

In lieu of professional elective courses subject to a maximum of 2 courses / 6 credits during the entire period of study.

6.7 Reappearance Registration

- 6.7.1 If a student fails in a course, the student shall do reappearance registration (examination) for that course in the subsequent semesters or when it is offered next.
- 6.7.2 On registration, a student may attend the classes for the reappearance registration courses, if the student wishes, and the attendance requirement (vide Clause 7) is not compulsory for such courses.
- 6.7.3 If a student is prevented from writing the end semester examination due to lack of attendance, the student has to register for all the courses of that semester again, when offered next, attend the classes and fulfill the requirements as per Clause 7.1 and 7.2.

7. REQUIREMENTS FOR APPEARING THE END SEMESTER EXAMINATION

A student who has fulfilled the following conditions (vide Clause 7.1 and 7.2) shall be deemed to have satisfied the attendance requirements for appearing for End Semester Examination.

- 7.1 Every student is expected to attend all the periods and earn 100% attendance. However, a student shall secure not less than 75% (after rounding off to the nearest integer) overall attendance.
- 7.2 If a student, secures attendance between 65% and 74% in the current semester due to medical reasons (prolonged hospitalization / accident / specific illness) or participation in Institution/ University/ State/ National/ International level extra-curricular and co-curricular activities, with prior permission from HoD, shall be permitted to appear for the current semester examinations subject to the condition that the student shall submit the medical certificate/ participation certificate attested by the HoD (along with condonation form). Such certificate along with the condonation forms shall be forwarded to the Controller of Examinations for verification. However, during the entire programme of study, a student can avail such condonation in any two semesters only.
- 7.3 A student shall normally be permitted to appear for the End Semester Examinations if the

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student has satisfied the attendance requirements (vide Clause 7.1 and 7.2) and 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% overall attendance will not be permitted to write the End Semester Examination. The student has to register and repeat the semester when it is offered next, attend the classes, earn internal assessment marks and fulfill the attendance requirements as per Clause 7.1 and 7.2.
- 7.5 In the case of reappearance (Arrear) registration for a course, the attendance requirement as mentioned in Clauses 7.1 and 7.2 is not applicable. However, the student has to register for examination for that course by paying the prescribed fee.
- 7.6 A student who has already appeared for a course in a semester and passed the examination is not entitled to reappear in the same course for improvement of grades.

8 CLASS ADVISOR and MENTOR

8.1 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 Head 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:

- Act as the channel of communication between the HoD and the students of the respective class.
- Collect and maintain various statistical details such as attendance, assessment marks etc.
- Convening the class committee meetings.
- Monitor the academic performance of the students including attendance and to inform the Class Committee.
- Coordinate with each course instructor in performing result analysis of continuous internal Assessments, end semester examinations and in estimating CO - PO - PSO attainment.
- Guide the students in the process of enrollment and registration of the courses.
- Inform the students about the various facilities and activities (curricular, extra-curricular and co-curricular) available, which helps to enhance their skills.

8.2 Mentor

Head of the Department will assign a certain number of students to each faculty of the Department, who shall function as Mentor for those students.

The responsibilities of the Mentor shall be:

- Motivate the students to participate in various curricular, extra-curricular and co-curricular activities.

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- Guide in the process of enrollment and registration of the courses.
- Counsel the students in their career development / professional guidance
- Collect and maintain the academic, extra-curricular and co-curricular records of the students.
- Monitor the academic performance of the students including attendance and to counsel them accordingly. The Mentor may also discuss with or inform the parents about the progress / performance of the students concerned.

9 CLASS COMMITTEE

9.1 A class committee consists of course instructors of the class concerned, student representatives and a chairperson who is not handling 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:

- Solving problems faced by students in the classroom and in the laboratories in consultation with the Head of the Department.
- Clarifying the regulations of the programme and the details of rules therein particularly (clause 5 and 7).
- Informing the student representatives about the academic schedule including the date of assessments and the syllabus portion for each assessment.
- Informing the student representatives, the details of regulations regarding weightage used for each assessment.
- In case of laboratory courses (Laboratory/Project Work/Seminar, etc.), the breakup of marks for each experiment/exercise/module of work, should be clearly discussed and informed to the students.
- Analyzing the performance of the students of the class after each assessment and finding ways and means of improving the performance of the students.
- Identifying the slow learners if any, and instructing the faculty concerned to provide some additional help or guidance or coaching to such students.

9.2 The class committee is normally constituted by the Head of the Department. However, if the students of different branches are mixed in each class, the class committee is to be constituted by the Head of the Institution.

9.3 The class committee shall be constituted within a week from the date of commencement of a semester.

9.4 At least 6 student-representatives from the respective class (usually 2 above average, 2

average and 2 below average students) shall be included in the class committee.

- 9.5 The chairperson of the class committee may invite the Class Advisor(s) and the Head of the Department to the class committee meeting. The Head of the Institution may also be invited to participate in any class committee meeting.
- 9.6 The chairperson of the class committee is required to prepare the minutes of every meeting, submit the same to the Head of the Institution through Head of the Department within two days of the meeting and arrange to circulate the same among students concerned and teachers. 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 Head of the Institution.
- 9.7 The first meeting of the class committee shall be held within fifteen days from the date of commencement of the semester. Two or three subsequent meetings in a semester may be held at suitable intervals. The chairperson of the class committee 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 their opinions and suggestions of the class students to improve the effectiveness of the teaching-learning process. In each meeting, the action taken report based on the minutes of the previous meeting is to be presented and discussed by the chairperson of the class committee.

10 COMMON COURSE COMMITTEE

- 10.1 A theory course handled by more than one faculty member including the discipline with multiple divisions (greater than or equal to 2) shall have a "Common Course Committee" comprising of all members of faculty teaching that course with one of the members as the Course Coordinator, nominated by the Head of the Institution (Head of the Department in the case of multiple divisions of a discipline) and student representatives (one per specialization or division) registered for that course in the current semester.

First meeting of the Common Course Committee shall be held within fifteen days from the date of commencement of the semester. Two subsequent meetings in a semester may be held at suitable intervals. During these meetings, the student members shall meaningfully interact and express their opinions and suggestions of all the students to improve the effectiveness of the teaching-learning process. It is the responsibility of the student representatives to convey the proceedings of these meetings to all the students.

- 10.2 In addition, Common Course Committee (without the student representatives) shall meet to

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ensure uniform evaluation through the common question papers during Continuous Assessment and End Semester Examinations.

11 SYSTEM OF EXAMINATION

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

11.2 Each course, both Theory and Laboratory including Project Work & Viva-Voce examinations shall be evaluated for a maximum of 100 marks.

11.3 The End Semester Examinations (Theory/Laboratory) of 3 hours' duration shall ordinarily be conducted in November/December during the odd semester and in April/May during the even semester.

11.4 The End Semester Examinations 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 from an academia or from industry 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 /project group and an internal examiner.

11.4.1 For the End Semester Examinations including Project Work, the Internal and External Examiners shall be appointed by the Controller of Examinations.

11.4.2 The following will be the weightages for Continuous Internal Assessment(CIA) and End Semester Examinations (ESE) different courses:

Courses	Assessment Weightage %	
	CIA (Internal)	ESE (External)
Theory Courses	40	60
Theory Integrated with Laboratory Courses	50	50
Laboratory Courses	60	40
Project Work	60	40
Industrial Training / Internship / Mini-Project / Mandatory Courses / Value Added Courses / Online courses	100	-

12 PROCEDURE FOR AWARDING MARKS FOR INTERNAL ASSESSMENT

For all theory courses, Laboratory Courses, Theory Integrated with Laboratory component and Project Work, the Continuous Internal Assessment shall be awarded as per the following procedure:

12.1. Assessment for Theory Courses

12.1.1 Continuous Internal Assessment comprises of two assessments of each 100 marks as detailed below.

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The students should attend all the assessments as per the Continuous Internal Assessment pattern framed by the course instructor and duly approved by the HoD concerned.

Assessment (100 Marks)		Total Internal Assessment
Individual Assignment/Innovative Practices/Case Study/Seminar/Mini Project, etc.	Written Test	
40	60	100*

* The weighted averages of all the two assessments put together (200 marks) shall be converted into 40 marks for Internal Assessment.

12.1.2 In case, a student misses the assessment due to medical reasons (hospitalization/accident/specific illness) or due to participation in the College/University/State/National/International level Competitions/NSS/NCC camps with prior permission from the Head of the Department, only one reassessment may be given at the end of the semester after getting approval from the Head of the Institution by the Course Instructor and HoD.

12.1.3 The assessment will be conducted as per the schedule given in the academic calendar. Each assessment carries a maximum of 100 marks and the final internal marks shall be calculated by considering the average of the two assessments.

12.2 Assessment for Laboratory Courses

12.2.1 Every Laboratory exercise/experiment shall be evaluated based on the student's performance during the laboratory class and the maintenance of Laboratory record.

12.2.2 There shall be at least one model examination for a Laboratory Courses.

12.2.3 The criteria for arriving at the Continuous Internal Assessment marks of 60 will be as per the following (75% continuous evaluation and 25% by conducting model examination).

Internal Assessment (100 Marks)*		Total
Evaluation of Laboratory Record	Model Examination	
75	25	100*

*The weighted averages shall be converted into 60 marks for internal assessment

12.3 Assessment for Theory Integrated with Laboratory Courses and Laboratory Integrated with Theory Courses

Continuous Internal comprises of three assessments of each 100 marks as detailed below shall be conducted for each theory Integrated with Laboratory Courses or Laboratory Integrated with Theory Courses.


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Internal Assessment				Proportionate Internal Assessment
(40%weightage) (Theory Component)		(60%weightage) (Laboratory Component)		
Individual Assignment/ Innovative Practices/Case Study/Seminar/Mini Project	Written Test	Evaluation of Laboratory Record	Model Examination	
40	60	75	25	
				100*

* The weighted averages of all the two assessments put together (200 marks) shall be converted into 50 marks for internal assessment

For both Theory Integrated with Laboratory Courses and Laboratory Integrated with Theory Courses, End Semester Examinations will be conducted as both Theory Examinations and Laboratory Examinations with an external examiner appointed by the Controller of Examinations.

The distributions of marks for the Theory and Laboratory components in the End Semester Examinations for the above said courses are provided in the following table:

End Semester Examinations		Proportionate External Assessment
Theory Component (100 Marks)	Laboratory Component (100 Marks)	
60% weightage	40% weightage	100*

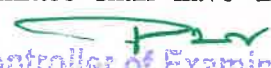
- The weighted average of 100 marks shall be converted into 50 marks for End Semester Examination

12.4 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.

12.4.1 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.

12.4.2 The Head of the Institution shall constitute a review committee for Project Work 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


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coordinator from the department.

12.4.3 The Project Work carried out in industry/academic/research institutions shall be jointly supervised by a supervisor of the department and an expert as a joint supervisor from the organization. The student shall be instructed to meet the supervisor periodically and to attend the review 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 Department and suitable records of the meetings shall be maintained.

There shall be three review meeting during the semester to be 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 converted into 60 marks and rounded to the nearest integer (as per clause in 12.4.4).

12.4.4 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 Head of the institution. 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 are awarded to each student of the project group is based on the individual performance in the viva-voce examination.

Review I	Review II	Review III	End Semester Examination			
			Project Report	Viva-Voce Examination		
			External	Internal	External	Supervisor
20	20	20	10	10	10	10

12.4.5 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.

12.4.6 However, If the project report is not submitted on or before the specified deadline (special case such as medical reasons, participate in international level events, etc.), an extension of time up to a maximum limit of 15 days may be given on request or the submission of project work with prior approval obtained from the Head of the Institution through Head of the department and the same needs to be communicated to Controller of Examinations. If the project report is not submitted even beyond the extended time, then the student(s) is deemed to have failed in the Project Work.

12.5 Other Employability Enhancement Courses

12.5.1 The Seminar / Case Study / Mini Project Work 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

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member committee appointed by the Head of the department, consisting of the course coordinator and two experts from the Department, will evaluate the seminar and at the end of the semester. The evaluation shall be based on the seminar paper (40%), presentation (40%) and response to the questions asked during presentation (20%).

- 12.5.2 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 / Summer Project / Internship, 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 was conducted internally by a three member departmental Committee constituted by the Head of the Department 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 be sent by Head of the Department to the Controller of Examination through the Head of the Institution.

S/N.	Item	Marks
1.	Evaluation from Industry Mentor	40
2.	Presentation and submission of report with certificate	40
3.	Viva-Voce	20
Grand Total		100

12.6 Assessment for Value Added Courses

The one / two credit course shall carry 100 marks and shall be evaluated through continuous assessments only. Three assessments shall be conducted during the semester by the department concerned. The total marks obtained in the assessments shall be converted 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.

12.7 Assessment for Online Courses

Students may be permitted to credit two online courses (which are provided with certificate), subject to a maximum of six credits. The online course of 3 credits can be considered instead of one elective course. These online courses shall be chosen from the SWAYAM platform, provided the

offering organization conducts regular examination and provides marks. The credits earned shall be transferred and the marks earned shall be converted into grades and transferred, provided the student has passed in the examination as per the norms of the offering organization. The details regarding online courses taken up by the student and marks/credits earned and the approval for the course from Head of Department shall be sent to the Controller of Examinations in the subsequent semester(s) along with the details of the elective(s) to be dropped.

Evaluation of NPTEL Courses	
NPTEL Marks	NPRCET Grade
50-59	B
60-69	B+
70-79	A
80-89	A+
90-100	O

12.8 Self-Study Course

The faculty member approved by the Head of the Department shall be responsible for the periodic monitoring and evaluation of the course. The course shall be evaluated through continuous assessment and End Semester Examinations as per regulations (vide Clause 4.8.2).

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

12.10 Attendance Record

Every course instructor is required to maintain an 'Attendance and Assessment Record', separately for each course 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). It 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 approve with his signature and date after due verification. At the end of the semester, the record must be verified by the Head of the Institution who will keep this document in safe custody (for five years). The University or any inspection team appointed by the University may verify the records of attendance assessment.

12.11 Conduct of Academic Audit by Institution

Every educational institution shall strive for a better performance of the students by conducting the internal assessments as mentioned in Clause 12.

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 12, the academic records shall be maintained in the form of documentation for the individual

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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 drawn from a Technical institution of repute near the institute. The University or any inspection team appointed by the University may verify the records of Academic Audit report of the courses of both current and previous semesters, as and when required

13 PASSING REQUIREMENTS

- 13.1 A student who secures 50% and above of total marks prescribed for the course [Internal Assessment + End Semester Examinations] with a minimum of 45% of the marks in the End Semester Examinations, 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).
- 13.2 If a student fails to secure a pass in a Theory Course/Laboratory Course/Theory Integrated with Laboratory Course, 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 two appearances shall be retained and considered valid for subsequent attempts till the student secures a pass. However, from the third attempt onwards 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.
- 13.3 If a student is absent Project Work the Viva - Voce examination, it would be considered as fail. If a student fails to secure a pass in Project Work, the student shall register for the course again in the subsequent semester and attend Viva-Voce examination again do Project Work.
- 13.4 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 (CIA) marks only.
- 13.5 The minimum number of total credits to be earned by a student to qualify for the award of Degree in the various branches of study as prescribed by the respective Board of Studies is given below:


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Branch of Study	Minimum Credits Required	
	Regular	Lateral Entry
B.E. Programmes		
B.E. Civil Engineering	166	120
B.E. Computer Science and Engineering	162	119
B.E. Electrical and Electronics Engineering	167	121
B.E. Electronics and Communication Engineering	165	121
B.E. Mechanical Engineering	165	119
B.E. Computer Science and Engineering (Artificial Intelligence & Machine Learning)	165	122
B.E. Computer Science and Engineering (Cyber Security)	165	122
B.Tech. Programmes.		
B. Tech. Artificial Intelligence & Data Science	164	118
B. Tech. Information Technology	163	120

13.6 Photocopy / Revaluation / Review

13.6.1. A student can apply for getting photocopy of his/her end semester examination answer paper in a theory course within one week from the date of declaration of results, on payment of a prescribed fee to the Controller of Examinations through the Head of the Department. The COE will arrange for issue of photocopy to the candidate concerned through Head of the Department.

13.6.2 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 who will arrange for the revaluation and the results will be intimated to the student concerned through the Head of the Institution. Revaluation is not permitted for practical courses and EEC courses. Students applying for photocopy only are eligible to apply for revaluation. A student can apply for revaluation of answer scripts for not exceeding 5 subjects at a time.

13.6.3 Students who are 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 Department. Students applying for revaluation only are eligible to apply for review.

13.7 Procedure for Transfer students:

Normalization of the credits will be carried out in consultation with the Board of Studies of the programme concerned and approved by the Head of Institution, if a student migrates from other

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affiliated institution to NPR College of Engineering and Technology or rejoins from previous regulation to this regulation.

14 AWARD OF LETTER GRADES

- 14.1 Letter Grades (based on Credit Point and Grade Point) are awarded to the students based on the performance in the evaluation process. Letter Grade is an index of the performance of a student in a said course.
- 14.2 Credit Point is the product of Grade Point and number of credits for a course and Grade Point is a numerical weight allotted to each letter grade on a 10-point scale (as specified in the Clause 14.4).
- 14.3 **Condition for Relative Grading:** The minimum number of students for applying relative grading system is 30. If the students' strength is less than 30 then absolute grading system will be applied. The relative grading system shall not be applied for laboratory and project courses.
- 14.4 The performance of a student will be reported using Letter Grades in absolute grading, each carrying certain points as detailed below: A student who earns a minimum of 5 grade points in a course is declared to have successfully passed the course.

Letter Grade	Grade Points
O (Outstanding)	10
A + (Excellent)	9
A (Very Good)	8
B + (Good)	7
B (Average)	6
C (Satisfactory)	5
U (Reappearance)	0
WD (Withdrawal)	0
UA (Absent)	0
SA (Shortage of Attendance)	0

'U' ---Reappearance is required for that particular course

'SA' denotes shortage of attendance (as per clause 7.3) and hence prevented from writing the end semester examinations. 'SA' will appear only in the result sheet.

"U" denotes that the student has failed to pass in that course. "WD" denotes **withdrawal** from the exam for the particular course. The grades U, UA and WD will figure both in the Grade Sheet as well as in the Result Sheet. In both cases, the student has to appear for the End Semester Examinations as per the Regulations.

If the grade U is given to **Theory Courses/ Laboratory Courses** it is **not required to satisfy the attendance requirements** (vide clause 7), but has to appear for the end semester examination and fulfil the norms specified in clause 13 to earn a pass in the respective courses.

If the grade U is given to **EEC course (except Project Work)**, which are evaluated **only through internal assessment**, the student shall register for the course again in the subsequent semester, fulfil the norms as specified in clause 13 to earn pass in the course. However, attendance requirement need not be satisfied.

14.5 **GRADE SHEET**

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

- Name of the College, Department, Programme of study etc....
- The list of courses registered during the semester and the grade scored.
- The Grade Point Average (GPA) for the semester and
- The Cumulative Grade Point Average (CGPA) of all courses enrolled from first semester onwards.

Semester Grade Point Average (SGPA) and the Cumulative Grade Point Average (CGPA) are calculated using the formula:

$$SGPA/CGPA = \frac{\sum_1^n C_i * g_i}{\sum_i^n C_i}$$

Where

C_i = Credit allotted to the course

G_i = Grade Point Secured corresponding to the course

n = number of courses successfully cleared during the particular semester in the case of SGPA and all the semesters, under consideration, in the case of CGPA

- 14.6 For the non-credit courses, grades shall be indicated as given in the Clause 12 and shall not be counted for the computation of SGPA/CGPA.

For the Co-curricular activities such as NCC / NSS / NSO / YRC/ Science club / Literary Club/ Fine Arts Club, a 'completed' remark will appear in the grade sheet on successful completion of the same. Every student shall put in a minimum of 75% attendance in the training and attend the camp compulsorily. The training and camp shall be completed during the first year of the programme. However, for valid reasons, the Head of the Institution may permit a student to complete this requirement in the second year also **Successful completion of any one of the above co-curricular activities is compulsory for the award of degree.**


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- 14.7 The grades O, A+, A, B+, B, C obtained for the one/two credit course (not the part of curriculum) shall figure in the Grade Sheet under the title 'Value Added Courses/Internship/Industrial training'. The courses for which the grades obtained are U, SA will not figure in the Grade Sheet.
- 14.8 The Mandatory courses will not be considered for the calculation of SGPA/CGPA.
- 14.9 Formula for calculating percentage of marks: $CGPA \times 10 = \% \text{ of marks}$.
- 14.10 The answer script of a student which is evaluated for awarding grades shall be retained by Office of CoE for a period of four years from the date of publishing the End Semester Results.

15 ELIGIBILITY FOR THE AWARD OF DEGREE

- 15.1 A student shall be declared to be eligible for the award of the B.E. / B.Tech. Degree provided the student has
- Successfully gained the required number of total credits as specified in the curriculum corresponding to the student's programme within the stipulated time.
 - Successfully completed the course requirements, appeared for the End Semester Examinations and passed all the courses within the period as prescribed in Clause 5.
 - Successfully completed the NCC / NSS / NSO / YRC / Extra-curricular/ Co-curricular requirements.
 - Successfully passed any additional courses prescribed in case of transferred/Readmitted candidates.
 - Successfully completed the mandatory courses.
 - No disciplinary action pending against the student.
 - The award of degree must have been approved by the Syndicate of the University.

15.2.3 Second Class:

All other students (not covered in clauses 15.2.1 and 15.2.2) who qualify for the award of the degree shall be declared to have passed the examination in **Second Class**.

16 WITHDRAWAL FROM THE END SEMESTER EXAMINATION

- 16.1 A student may, for valid reasons, be granted permission by the Head of the Department to withdraw from appearing in the examination in any course(s) only once during the entire duration of the degree programme. The withdrawal application shall be sent to the CoE through the Head of the Department with required documents.

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- 16.2 Withdrawal application is valid if the student is otherwise eligible to write the examination (Clause 7) and registered for the same. Withdrawal can be made within Ten days before the commencement of the End Semester Examination in that course or courses and recommended by the Head of the Institution and approved by the Controller of Examinations.
- 16.3 Notwithstanding the requirement of mandatory Ten working days' notice, applications for withdrawal for special cases under extraordinary conditions will be considered on the merit of the case.
- 16.4 If a student withdraws a course or courses from writing End Semester Examinations, he/she shall register the same in the subsequent semester and write the end semester examination(s).
- 16.5 Withdrawal shall not be considered as an appearance in the examination for the eligibility of a student for First Class with Distinction or First Class.
- 16.6 Withdrawal is permitted for the End Semester Examinations in the final semester, only if the period of study of the student concerned does not exceed 5 years / 4 years for lateral as per clause 16.1 & 16.2.

17 PROVISION FOR AUTHORIZED BREAK OF STUDY

- 17.1 A student is permitted to go on break of study for a fixed period of one year as a single break in the entire course of study.
- 17.2 A student is normally not permitted to break the period of study temporarily. However, if a student happens to discontinue the programme temporarily during the middle of programme of study, for reasons such as accident or hospitalization due to ill health or in need of health care, he/she shall apply to the Head of the Institution in advance, in any case, not later than the last date for registering for the semester examination, through the Head of the Department stating the reasons for the break-of-study. However, a student detained for want of minimum attendance requirement as per Clause 7 shall not be considered as permitted 'Break of Study' and Clause 17.3 is not applicable for such case.
- 17.3 The student is permitted to rejoin the programme after the break / 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 Academic Incharge in the prescribed format through the Head of the Department at the beginning of the readmitted semester itself for prescribing additional/equivalent courses, if any, from any semester of the regulations in-force, so as to bridge the curriculum in-force and the old curriculum.
- 17.4 Authorized break of study will be counted towards the duration specified for passing all the

courses (vide Clause 5.1 and 5.2) and for the purpose of classification of Degree (vide Clause 15.2).

- 17.5 The total period for completion of the programme reckoned from the commencement of the first semester to which the student is 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 (vide Clause 15).
- 17.6 In case of valid reasons (as stated in Clause 17.2) extended break-of-study may be granted by the Head of the Institution for a period not more than one year in addition to the earlier authorized break of study.
- 17.7 If a student does not report back to the Institute, even after the extended Break of Study, the student's name shall be permanently deleted from the college enrollment. Such students are not entitled to seek readmission under any circumstances.

18 IMPLEMENTATION OF MINOR DEGREE/ HONOURS

The following guidelines shall be implemented for the B.E. / B. Tech. students who have been admitted from the academic year 2023-2024.

18.1 B.E. / B.Tech. Honours (specialization in the same discipline):

- The student should have earned additionally a minimum of 18 credits from a vertical of the same programme.
- Should have passed all the courses in the first attempt.
- Should have earned a minimum CGPA of 7.50.

18.2 B.E. / B.Tech. Honours

- The students should have earned additionally a minimum of 18 credits from more than one vertical of the same programme.
- Should have passed all the courses in the first attempt.
- Should have earned a minimum CGPA of 7.50.

18.3 B.E. / B.Tech. (minor in other specialisation)

The student should have earned additionally a minimum of 18 credits in any one of the verticals of other B.E/B.Tech. programmes or from any one of the following verticals

Vertical I: Fintech and Block Chain

Vertical II: Entrepreneurship

Vertical III: Public Administration

Vertical IV: Business Data Analytics

Vertical V: Environment and Sustainability

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- 18.4 Students can earn maximum of 6 credits in online mode (SWAYAM platform), out of these 18 credits with the approval of the Head of the Department.
- 18.5 B.E./ B. Tech. (Hons) Specialization in the same discipline, B.E. / B.Tech. Honors and B.E. / B.Tech. Minor in other specialization degrees will be optional for students.
- 18.6 For categories 18.1 and 18.2, the students will be permitted to register for the courses from V Semester onwards provided the marks earned by the students until III semester should be of CGPA 7.50 and above and cleared all the courses in the first attempt.
- 18.7 For category 18.3, the students will be permitted to register the courses from Semester V onwards provided the marks earned by the students until Semester II is CGPA 7.50 and above.
- 18.8 If a student decides not to opt for Honours, after completing a certain number of additional courses, they 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 grade sheet, however, they will not be considered for the calculation of CGPA.
- 18.9 If a student decides not to opt for Minor degree, after completing a 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 grade sheet, however, they will not be considered for calculation of CGPA.

19 DISCIPLINE

Every student is required to follow the rules and regulations laid down by the Institute as published from time to time. Any violations, if any, shall be treated as per the procedures stated thereof.

If a student indulges in malpractice in any of the End Semester / Continuous Assessments, he / she shall be liable for punitive action as prescribed by the Institution from time to time.

20 REVISION OF REGULATIONS, CURRICULUM AND SYLLABI

The Institution may from time to time revise/amend/change the Regulations, Curriculum, Syllabi, Scheme of Examinations and to introduce Additional Electives, Open Electives, One Credit Courses and Value Added Courses through the Academic Council.


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