



Shree Venkateshwara Hi-Tech Engineering College

(An Autonomous Institution, Approved by AICTE)

(Affiliated to Anna University, Chennai)

Erode-Gobi Main Road, Gobichettipalayam-638455

UG REGULATIONS 2023

(B.E./B.Tech)

(Choice Based Credit System)

Autonomous

Note:

Regulations-2023 has been prepared in accordance with the guidelines given by the University Grants Commission, All India Council for Technical Education and affiliating University in the aspect of the Choice Based Credit System (CBCS). The regulations here under are subject to amendments as may be made by the Academic Council of the College from time to time. Any or all such amendments will be effective from such date and to such batches of candidates (including those already undergoing the program) as may be decided by the Academic Council.

Handwritten signature and date:
15/09/2023



Shree Venkateshwara Hi-Tech Engineering College

(An Autonomous institution, Approved by AICTE, Affiliated to
Anna University, Chennai)

Erode-Gobi main Road, Gobichettipalayam-638455

B.E./B.Tech – REGULATIONS – 2023 (Autonomous)

Choice Based Credit System

(For the students admitted to B.E. / B.Tech. Programme)

(Academic year 2023 - 2024)

1. PRELIMINARY DEFINITIONS AND NOMENCLATURE

In these Regulations, unless the context otherwise requires:

- I). **“Programme”** means Degree Programme that is B.E./B.Tech. Degree Programme.
- II). **“Discipline”** means specialization or branch of B.E./B.Tech. Degree Programme, like Civil Engineering, Computer Science and Engineering, etc.
- III). **“Course”** means a theory or practical subject that is normally studied in a semester, like Mathematics, Physics, etc.
- IV). **“Head of the Institution”** means the Principal of a College / Institution who is responsible for all academic activities of that College / Institution and for implementation of relevant Rules and Regulations.
- V). **“CoE”** means Controller of Examinations, the authority of the College who is responsible for all activities of the End Semester Examination.
- VI). **“Head of the Department”** means Head of the Department concerned.
- VII). **“Chairman”** mean Chairperson of Board of Studies or the Head of the Department of each programme.
- VIII). **“University”** means Anna University, Chennai

2. ADMISSION PROCEDURE

- 2.1. 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 state Government with Mathematics, Physics and Chemistry as three of the four courses of study under Part-III or any examination of any other University or authority accepted by the Syndicate of University as equivalent thereto.

(OR)

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



2.2. LATERAL ENTRY ADMISSION

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

(OR)

(ii) The candidates who possess the Degree in Science (B.Sc.,) (10+2+3 stream) with Mathematics as a subject at the B.Sc. Level are eligible to apply for Lateral entry admission to the III semester of B.E. / B.Tech. Such candidates shall undergo two additional Engineering subject(s) in the III and IV semesters respectively as decided by Admission committee and approved by Academic Council.

3. PROGRAMMES OFFERED

A candidate may select any one of the Programme offered by the college which are approved by AICTE and Affiliated by the Anna University. Details of programmes currently being offered by the college are given below

Table 3.1. B.E./B.Tech programme

Sl.No	Course Code	Name of the Programme	Credits to be earned
1.	CE	B.E. Civil Engineering	170
2.	CS	B.E. Computer Science and Engineering	164
3.	EE	B.E. Electrical and Electronics Engineering	170
4.	EC	B.E. Electronics and Communication Engineering	164
5.	ME	B.E. Mechanical Engineering	169
6.	BM	B.E. Biomedical Engineering	165
7.	AD	B.Tech. Artificial Intelligence and Data Science	165
8.	IT	B. Tech. Information Technology	164
9.	PT	B.Tech. Pharmaceutical Technology	166

4. STRUCTURE OF PROGRAMMES

4.1. CATEGORIZATION OF COURSES

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

- i. **Humanities and Social Sciences including Management Courses (HSS) include Professional English, Communication skills etc.**
- ii. **Basic Science Courses (BS)** include Mathematics, Physics, Chemistry, Biology, etc.
- iii. **Engineering Science Courses (ES)** include Workshop Practice/Workshop Manufacturing for Practice, Engineering Graphics/Drawing, Basics of Electrical / Electronics / Mechanical / Computer Engineering, Instrumentation etc.
- iv. **Professional Core Courses (PC)** include the core courses relevant to the chosen specialization/branch.

- v. **Professional Elective Courses (PE)** include the elective courses relevant to the chosen specialization / branch. Professional Elective courses are offered under verticals (Specialization groups)
- vi. **Open Elective Courses (OE)** includes the courses offered by a branch to other branches from the list specified in the respective curriculum of B.E/B.Tech programmes.
- vii. **Mandatory Courses (MC)** Includes the courses such as languages, well being, etc. the student shall study the mandatory courses prescribed in their curriculum and it will be mentioned in grade sheet. However it will not be considered for computation of CGPA.
- viii. **Employability Enhancement Courses (EEC)** include Project Work and/or Internship, Career Development skills, seminar, Professional Practices, Case Study and Industrial/Practical Training.
- ix. **Other Courses (OC)** includes NPTEL, SWAYAM, MOOC Online Courses, Value Added Courses, and other certified courses by external recognized organization or institute.

4.2. PERSONALITY AND CHARACTER DEVELOPMENT

All the students shall enroll their names in at least one or more personality and character development programmes (NCC/NSS/NSO/YRC/RRC/JRC) and undergo the related training specified by the relevant authority of State and Central Government. 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 College/Institution and neighboring villages.

National Sports Organization (NSO) will have sports, games, drills and physical exercises.

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

Yoga for Human Excellence (YHE) will have yoga practice for stress management and healthy life and activity is intended for tuning the students mentally and physically.

Science club shall organise activities of popularisation 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 organise colourful 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.

Sports Club will have all kind of sports activities such as Cricket, Valley ball, Hockey, etc, conducted by internally/externally

Students who enroll and take active participation in anyone of the above activities for 80 hours and participate at least one event/programme 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.

4.2.1. INDUCTION PROGRAMME

Induction programme is mandatory for the students pursuing undergraduate programme. The list of students who have successfully completed the induction programme shall be certified by the head of the institution and submitted to Controller of Examination by the head of the department.

The completion of induction programme shall be printed in grade sheet as **“COMPLETED”**. In case of student who have got admitted later and those who have not attended the induction program at the time of joining the degree program, it shall be conducted later and on completion it shall be recorded in the grade sheet. No fee will be charged towards conduct of induction program and for including the statement of grade for the successful completion of Induction programme.

4.3. NUMBER OF COURSES PER SEMESTER

Each semester curriculum shall normally have a blend of 5 to 7 lecture courses and laboratory courses are not exceeding 4. In Addition, Employability Enhancement Course(s) may also be included. Each course may have credits assigned as per clause 4.4. However, the total number of courses per semester shall not exceed 10 Final semester may have a blend of 1 or 2 lecture courses, project work and may be 1 laboratory courses.

4.4 CREDIT ASSIGNMENT

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

Table 4.1. Credit Points

CONTACT PERIOD/WEEK	CREDITS
1 Lecture	1
1 Tutorial	1
Period of 1 Practical (Laboratory/Seminar/Mini Project work)	0.5

4.5. INDUSTRIAL TRAINING / INTERNSHIP

4.5.1 The students may undergo Industrial training for a period as specified in the Curriculum during summer / winter vacation. In this case, the training has to be undergone continuously for the entire period. The Students may undergo internship at research organizations after due approval from Head of the Institution for the period prescribed in the curriculum during summer/winter vacation, in lieu of Industrial training. Attendance certificate will be provided to the CoE by the Head of the department for the result process.

4.5.2 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. In such cases, Industrial Training / Internship needs to be undergone continuously from one organization for the period of One/Two weeks. Students shall get certificate of completion of industrial training/Internship should be forwarded to CoE through their respective HoD. The student is allowed to undergo a maximum of 6 weeks Industrial Training / Internship during the entire duration of study.

Table 4.2. Credits points for Internship

DURATION OF TRAINING / INTERNSHIP	CREDITS
2 Weeks*	1
4 Weeks	2
6 Weeks	3

*One week = 40 Internship Hours

4.6 INDUSTRIAL VISIT

Every student is required to go for at least one Industrial visits from the second year to final year of the Programme. The Heads of Departments shall ensure that necessary arrangements are made in this regard with concern of head of the Institution.

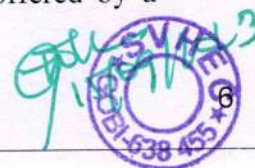
4.8 OTHER COURSES

4.8.1 Online Courses

Students can register for online courses only with the permission of the Head of the Institution. **The Head of the Institution shall form a three member committee with members as HOD and a faculty member from the Department of the student, HOD of any other branch of the Institution to ensure that the student has not studied such courses and would not repeat it again as Professional Core/Professional Elective/Open Elective courses.** Online courses shall be taken under the guidance of a faculty mentor. Students shall register for online courses offered by NPTEL/SWAYAM/MOOC or any other courses offered by reputed National/International organization, universities under the guidance of a faculty mentor. Students may be permitted to waive maximum of six credits during the entire duration of the programme. The concerned Head of the Department shall ensure that the student has not repeated Professional Core / Professional Elective/Open Elective Courses. The students shall opt for waiving of courses in VI and VII semesters provided the courses have been completed before VII semester. List of courses to be waived should be submitted to CoE at the beginning of the VII semester after the approval from the Head of the Institution.

4.8.2. Value Added Courses

Students shall be allowed to take a value added course offered by a department with the approval from their respective Board of Studies and Academic Council/Ratification. The credits earned through the Value Added Courses shall not be cover the total credit requirement prescribed in the curriculum for the award of the degree. Two one credit courses or Two credits courses shall be offered by a



Department of an institution with the prior approval from the Board of Studies. Students can take a maximum of one or two credit courses during the entire duration of the Programme. The Students are also allowed to take the value added courses offered in other departments with the permission of the Head of the Department offering the course.

4.9. MEDIUM OF INSTRUCTION

The medium of instruction shall be English for all courses, examinations, seminar presentations and project reports.

5. DURATION OF THE PROGRAMMES

- 5.1 A student is ordinarily expected to complete the B.E. / B.Tech. Programme in 8 semesters (HSC Students) and 6 semesters for Lateral Entry but in any case not more than 14 Semesters for HSC (or equivalent) candidates and not more than 12 semesters for Lateral Entry Candidates.
- 5.2 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 faculty imparts instruction as per the number of periods specified in the syllabus and that the faculty teaches the full content of the specified syllabus for the course being taught.
- 5.3 The Head of the Institution may conduct additional classes for improvement, special coaching, conduct of model test etc., over and above the specified periods. But for the purpose of calculation of attendance requirement for appearing the End Semester Examination (as per clause 6), following method shall be used.

$$\text{Percentage of Attendance} = \frac{A}{B} \times 100$$

A-Total no. of periods attended in all the courses per semester

B-(No. of periods / week as prescribed in the curriculum taken together for all courses of the semester) x 15

The End Semester Examination will ordinarily follow immediately after the last working day of the semester as per the academic schedule prescribed from time to time.

- 5.4 The total period for completion of the programme reckoned from the commencement of the first semester to which the candidate was admitted shall not exceed the maximum period specified in clause 5.1 irrespective of the period of Break of Study in order that he/she may be eligible for the award of the degree (vide clause 19 & 20).

Handwritten signature and date: 15/09/2023



6. COURSE REGISTRATION

- 6.1 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 (with the facility to drop courses to a maximum of 6 credits. The courses dropped in earlier semesters can be registered in the subsequent semesters when offered.
- 6.2. The registration details of the student shall 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.
- 6.3. The courses that a student registers in a particular semester may include
- Courses of the current semester.
 - 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 students for the appearance of the examinations.

7. REQUIREMENTS FOR APPEARING THE END SEMESTER EXAMINATION OF A COURSE

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 the End Semester Examination of a particular course.

- 7.1 A candidate who has fulfilled the following conditions shall be deemed to have satisfied the attendance requirements for completion of a semester. Ideally every student is expected to attend all classes and earn 100% attendance. However in order to allow provision for certain unavoidable reasons such as prolonged hospitalization / accident / specific illness / participation in the sports, the student is expected to earn a minimum of 75% attendance to become eligible to appear for the End Semester Examination.

Therefore, every student shall secure not less than 75% of overall attendance in that semester taking into account the total number of periods in all courses attended by the candidate as against the total number of periods in all courses offered during that semester.

- 7.2 However, a candidate who secures overall attendance between 65% and 74% in that 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 to the Head of the Institution.

Candidates who secure less than 65% overall attendance and who do not satisfy the clauses 6.1 & 6.2 will not be permitted to appear for the End Semester Examination

of that current semester and are not permitted to go to next semester. They are required to repeat the same semester in the next academic year. However they are eligible to appear for only arrear courses in the previous semesters if any.

However the candidates who secure less than 65% and above 55% of overall attendance may apply for condonation of shortage of attendance on genuine grounds. Application for condonation of shortage of attendance along with the prescribed fee should be forwarded so as to be received in the office of the Controller of Examinations along with the final attendance statement within 7 working days, before the commencement of the End Semester Examination. Candidate can seek condonation of shortage of attendance only once in the entire duration of a course.

8. 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:

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.
- ✓ Develop a strong working relationship with students to ensure academic success.
- ✓ To inform the students about the various facilities and activities available to enhance the student's curricular and co-curricular activities.
- ✓ To monitor the academic and general performance of the students including attendance and to counsel them accordingly.

9. COMMON COURSE COMMITTEES

Each common theory course offered to more than one discipline or group, shall have a "Course Committee" comprising all the teachers teaching the common course with one of them nominated as the 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 teachers teaching the common course belong to a single department or to several departments. The 'Course Committee' shall meet in order to arrive at a common scheme of evaluation for the test and shall ensure a

uniform evaluation of the tests. Wherever feasible, the Course Committee may also prepare a common question paper for the internal assessment test(s).

10. CLASS COMMITTEE

A Class Committee consists of all faculty handling courses of the concerned class, student representatives - cross section of students (academically good, average, and slow learner) and a chairperson who is a faculty not handling any course for the class. The overall goal of the Class Committee is to improve the teaching-learning process. The functions of the Class Committee include:

- Addressing the problems experienced by students in the classroom and in the laboratories.
- Clarifying the regulations of the degree programme and the details of rules therein.
- Informing the student representatives about the academic schedule including the date of assessments (Tests & Assignments) and the syllabus coverage for each assessment.
- Analyzing the performance of the students of the class after each test and finding the ways and means of solving problems, if any
- Identifying the slow learners, if any, and requesting the faculty concerned to provide some additional help or guidance or coaching to such weak students.

10.1 The class committee for a class under a particular programme is normally constituted by the Head of the Department. However, if the students of different programmes are mixed in a class (like the I semester which is generally common to all programmes), the class committee is to be constituted by the Head of the Department concerned.

10.2 The class committee shall be constituted in the first week of commencement of any semester.

10.3 At least 6 student representatives (usually 3 boys and 3 girls) shall be included in the class committee.

10.4 The chairperson of the class committee may invite the class advisor(s) and the Head of the Department to the meeting of the class committee.

10.5 The Head of the Institution may participate in any class committee meeting.

10.6 The chairperson is required to prepare the minutes of every meeting, submit the same to Head of the Institution within two working days after the meeting and arrange to circulate among the concerned students and faculty. 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.

10.7 The class committee shall meet at least twice in a semester:

- The first meeting of the class committee shall be held within seven working days from the date of commencement of the semester.
- The nature and weightage of the continuous assessments shall be discussed in the first meeting, within the framework of the Regulations.
- The second meeting shall be held a week before the second assessment

[Handwritten signature]
15/09/2023



10.8 During these meetings, the student members representing the entire class, shall actively interact and express the opinions and suggestions of other students of the class to improve the effectiveness of the teaching-learning process

11. ASSESSMENT PROCEDURES FOR AWARDING MARKS

All B.E. / B.Tech. Programmes consist of Theory Courses, Laboratory Courses, Intergrated theory and practical, Employability Enhancement Courses. Employability Enhancement Courses include Project Work, Seminar, Professional Practices, Case Study and Industrial/Practical Training. Appearance in End Semester Examination is mandatory for all courses that are specified in the curriculum.

Table 11.1 Internal Assessment and End Semester Exam Marks

S.No	Category of course	CIA	End Semester Examination
1.	Theory Courses *	40	60
2.	Laboratory Courses	60	40
3.	Project Work	60	40
4.	Integrated Theory & Practicle	50	50
5.	All other EECs (other than Theory EEC)	100	NA
6.	Mandatory Courses (MC)	100	NA

Performance in each course of study shall be evaluated based on (i) Continuous assessments throughout the semester and (ii) End Semester Examination at the end of the semester. For theory courses out of 100 marks, the maximum marks for continuous assessment is fixed as 40 marks and the End Semester Examination carries 60 marks.

For laboratory courses out of 100 marks, the maximum marks for continuous assessment is fixed as 60 marks and the End Semester Examination carries 40 marks. For project work continuous assessment carries 60 marks and End Semester Examination carries 40 marks (Project work, Project report evaluation and Viva voce). Each course shall be evaluated for a maximum of 100 marks as shown below:

Every faculty is required to maintain an 'ATTENDANCE AND ASSESSMENT RECORD' for every semester which consists of attendance marked in each theory/ Laboratory/ EEC Class and the assessment marks and the record of class work (topics covered), separately for each course handled by the faculty. This should be submitted to the Head of the Department periodically (atleast three times in a semester) for checking the syllabus coverage and the records of assessment marks and attendance. The Head of the Department will affix his/her signature with date after due verification. At the end of the semester, the record should be verified by the Head of the Department who shall keep this document in safe custody (for five years). The records of attendance and assessment of both current and previous semesters should be available for inspection.

Handwritten signature and date: 10/09/2023



11.1 ASSESSMENT FOR THEORY COURSES:

For theory courses including Theory EEC specified in curriculum out of 100 marks, the maximum marks for continuous assessment is fixed as 40 marks and the End Semester Examination carries 60 marks.

The End Semester Examination for theory and laboratory courses will be of 3 hours duration and shall normally be conducted between October and December during the odd semesters and between April and June during the even semesters. End Semester Examination is mandatory requirement for passing the course and every student should appear for the examination for theory, laboratory courses and project work.

Table 11.2. Assessment Procedure for Theory Courses

Assessment I		Assessment II		Total Internal Assessment
Individual Assignment/Case Study/Seminar/Project/ Objective Questions/any other experimental learning	Written Test	Individual Assignment/Case study/Seminar/ Project/ Objective Questions/any other experimental learning	Written Test	
40	60	40	60	200

*The weighted average is converted into 40 marks

A minimum of two internal assessment will be conducted as a part of continuous assessment. Each internal assessment is to be conducted for 100 marks and will have to be distributed in two parts as mentioned above. In case a student has not appeared for the assessment due to medical reasons (hospitalization/ accident /specific illness) or due to participation in the College /University / State/ National /International level Sports events with prior permission from the Head of the institution, a Reassessment may be given at the end of the semester after getting approval from the Head of the Institution.

11.2 ASSESSMENT FOR 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. Laboratory course:

Table 11.3. Assessment Procedure for Laboratory Courses

Internal Assessment (100 Marks)	
Evaluation of laboratory Observation/Record	Test
75	25

11.3. ASSESSMENT FOR INTEGRATED THEORY & PRACTICAL COURSE

The weightage for Continuous Assessment and End semester examination marks will be 50 % each. The distribution of mark for the theory and lab component in the internal assessment and end semester examination for the different types of courses are given below.

Table 11.4. Assessment Procedure for Integrated Theory & laboratory Courses

L	T	P	C	Internal Assessment		End Semester Exam
1	0	4	3	Lab 25%	Theory 25%	Lab 50% only
1	0	2	2	Lab 25%	Theory 25%	Lab 50% only
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%	Lab 25%	Theory 15% Lab 35%

The procedure for the conduct of internal assessment for the theory and laboratory component shall be as per the clause 11.1 and 11.2.respectively. The weightage average shall be converted into 50 marks for internal assessment.

11.4. ASSESSMENT FOR PROJECT WORK:

11.4.1. The students shall register for project work in final semester. Project work may allotted to a single student or group of students not exceeding 4 per group. The students are also permitted to undergo a semester long internship in an industry, academic/research institutions.

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.

The project work carried out in industry academic/research institutions shall be jointly supervised. The project work shall be jointly supervised by supervisor of the department and an expert from organization as a joint supervisor and the student shall be instructed to meet the supervisor periodically and to attend the review committee meeting for evaluating the progress

The head of the institution shall constitute a review committee for project work for each the programme, the review committee consist of supervisor, a expert and project coordinator of the department. If the expert or project coordinator happens as a supervisor then the alternate member shall be nominated .In the case of industrial project, the review committee consist of supervisor, the coordinator from the industry and project coordinator. In such case the review meeting may also arrange in online mode with prior approval from the head of the institution.

Handwritten signature and date: 15/09/2023



There shall be three review will be conducted by the review committee, the student will make presentation on the progress made by him/her before the committee. The total marks obtained in the three reviews shall be reduced into 60 marks and rounded to nearest integer.

The project report shall carry a maximum of 10 marks the project report shall be submitted as per the format approved by the head of the institution. The viva voce shall carry a maximum of 30 marks. Marks awarded each student of project group is based on individual performance of the viva voce examination.

Table 11.5. Assessment Procedure for Project Work

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

In case of industrial project, the mark allotted for the supervisor shall be equally shared by the supervisor from the department and industrial coordinator

11.5 ASSESSMENT FOR INDUSTRIAL TRAINING / INTERNSHIP

Continuous assessment procedure for the Industrial Training / Internship / Industrial Lectures specified in curriculum is described in syllabus of the concerned courses and reappearance is mandatory, in case of failure. The assessment procedure for End Semester Examination of all EEC is given below.

11.5.1. Industrial Training/Internship

After completion of the III semester, the student may undergo industrial training/internship in reputed organization after getting prior permission from the head of the Institution.

After completion of the training period, the students must submit the detailed report along with attendance certificate to CoE through the head of the department with the approval of head of the Institution. The student failed to complete the industrial training /internship as specified in their curriculum period. They must complete such training/ internship within the end of the course duration.

11.5.2. ASSESSMENT FOR VALUE ADDED COURSE

This course shall carry 100 marks and shall be evaluated only through Continuous Assessments. The evaluation procedure and criteria for allocation of credit may be decided by the certifying authority / Course coordinator with the approval of Head of the Department. The Head of the Department may identify a faculty member as a coordinator for the course. A committee consists of the Head of the Department, faculty handling the course and course coordinator. The grades shall be assigned to the students by the above committee based on their relative performance. In addition to the one credit courses offered by the department, the following common courses are also considered.

a. English Proficiency Certification

1.	Pre – requisites/Eligibility Conditions	As prescribed by the certifying authority
2.	Detail of Course Content/ Syllabus	
3.	Duration of the Course	
4.	Assessment Procedure	
5.	Criteria for allocation of credit	A certificate for attending BEC course/Minimum score in TOFEL iBT / GRE/ IELTS
6.	In case of failure	Repeat the course

b. Soft Skills

1.	Pre – requisites /Eligibility Conditions	As prescribed by Placement Cell
2.	Detail of Course Content / Syllabus	
3.	Duration of the Course	
4.	Assessment Procedure	As per the procedure described for CDS(as per clause. 9.2)
5.	Criteria for allocation of credit	Successful completion of Soft skill Training with minimum 20 contact hours
6.	In case of failure	-

c. One/Two Credit Courses

1.	Pre–requisites/Eligibility Conditions	Student has to fulfill the necessary Pre-requisites of the course being offered by the department
2.	Detail of Course Content/ Syllabus	As prescribed by the course coordinator on approval with HOD of the respective department
3.	Duration of the Course	
4.	Assessment Procedure	
5.	Criteria for allocation of credit	Certificate issued by the HOD for the successful completion of the course with 80% attendance
6.	In case of failure	-

11.6 ASSESSMENT FOR MANDATORY COURSES (MC)

For mandatory courses specified in curriculum, the 100 marks will be awarded based on the continuous assessment and there is no End Semester Examination for Mandatory Courses. The marks earned for the MC courses are not considered for computation of GCPA.

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

Handwritten signature and date: 15/09/2023



11.8. 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 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 and assessment of both current and previous semesters.

11.9. CONDUCT OF ACADEMIC AUDIT

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 11, 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 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.

12. ENROLLMENT FOR B.E. / B. TECH. (HONOURS) / MINOR DEGREE (OPTIONAL)

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

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

Handwritten signature and date: 15/09/2023


(i). B.E./B.Tech. Honours (specialisation 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.

(ii). B.E / B.Tech. Honours

- ✓ The students should have earned additional courses (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.

(iii). 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

Students can earn maximum of 6 credits in online mode (SWAYAM platform), out of these 18 credits as approved by Respective Board of Studies and Academic council.

B.E./ B. Tech. (Hons) Specialisation in the same discipline, B.E / B.Tech. Honors and B.E./B.Tech. minor in other specialisation degree will be optional for students.

For the categories (i) and (ii), the students will be permitted to register 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.

For the category 2 (iii), the students 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.

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.

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.

12.1. REGISTRATION FOR THE MINOR DEGREE / HONOURS

1. Each department offering the Minor degree / Honours will submit the final list of selected students to the Head of the Institution.
2. The selected students shall submit a joining letter to the Head of the Institution through the concerned HOD offering the Minor degree / Honours.
3. The student shall inform same to the HOD of his/her parent department.
4. Both parent department and department offering minor shall maintain the record of student pursuing the Minor degree / Honours.
5. With the approval of the Principal and suggestion of advisor, students can choose courses from the approved list and shall register the courses within a week as per the conditions laid down in the structure for the Minor degree / Honours.
6. Each department shall communicate the Minor degree / Honours registered by the students to the Time table drafting committee and accordingly time table committee shall prepare that no clash in time tables.
7. If the student wishes to withdraw/change the registration of subject/course, he/she shall inform the same to advisor, subject teacher, HODs of Minor degree / Honours department and the Principal within two weeks after registration of the course.
8. The department offering the Minor degree / Honours will announce specialization and courses before the start of the session.
9. The interested students shall apply through the HOD of his/her parent department.
10. The concerned department will announce the list of the selected students for the Minor degree / Honours.
11. The whole process should be completed within one week before the start of every session.
12. Selected students shall be permitted to register the courses for Minor degree / Honours.
13. The students have to pay the requisite course fee for the Minor degree / Honours as prescribed by the institute.

Handwritten signature and date: 17/09/2023



13. PASSING REQUIREMENTS

- 13.1 A candidate who secures not less than 50% of total marks prescribed for the course [Internal Assessment + End Semester Examination] with a minimum of 45% prescribed for the End Semester Examination shall be declared to have passed the course and acquired the relevant number of credits. For non credit courses there is no minimum mark for pass.
- 13.2 If a candidate fails to secure a pass in a particular course, it is mandatory that he/she shall reappear for the examination in that course during the subsequent semester when examination is conducted in that course.
- 13.3 The internal assessment marks obtained by the candidate in the first appearance shall be retained and considered valid for all subsequent attempts till the candidate secure a pass. However, from the 3rd attempt if a candidate fails to obtain pass marks (CIA + End Semester Examination) the passing requirement shall be as follows: The candidate should secure 50% and above the maximum marks prescribed for course in the End Semester Examinations irrespective of Internal Assessment marks obtained.
- 13.4. If the student absent for the viva-voce examination, it would be considered as fail. The student shall register for the course again in the subsequent semester and can do project work.
- 13.5. A student can apply for revaluation of the student's 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 through the Head of the Institution. The COE 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 laboratory course and EEC courses.

14. AWARD OF LETTER GRADES

- 14.1. The award of letter grade will be decided using relative grading principle except laboratory courses and project work. The performance of student will be reported using letter grades, each carrying certain points as mentioned below.

Table 41.1. Grading Points

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

Handwritten signature and date: 15/09/2023



14.2 Relative grading

For those students who have passed in the courses (theory courses, Integrated theory and laboratory courses, EEC courses) except laboratory courses and project the relative grading will be done. The marks of those students who have passed only shall be inputted in the software developed for the relative grading. The evolved relative grading method normalize the result data using BOX-COX transformation method and computes the grade range for each student. If the student strength is greater than 30 the relative grading method is adopted

14.3. Absolute Grading

For all the courses if the student strength is less than or equal to 30 then the absolute grading shall be followed with the grade range specified in the given table.

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

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

'SA' denotes shortage of attendance (as per clause 7) and hence prevented from writing the end semester examinations. 'SA' will appear only in the result sheet.

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

15. Grade Sheet

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

1. The college in which the student has studied
2. The list of courses registered during the semester and the grade scored.
3. The Grade Point Average (GPA) for the semester and
4. 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.



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

where C_i is the number of Credits assigned to the course
 GP_i is the point corresponding to the grade obtained for each course
 n is number of all courses successfully cleared during the particular semester in the case of GPA and during all the semesters in the case of CGPA.

CGPA will be calculated in a similar manner, considering all the courses enrolled from first semester. "RF", "RA" and "W" grades will be excluded for calculating GPA and CGPA.

The credits earned through value added courses shall not be considered for calculating GPA and CGPA. However completion of three credits through value added courses can be considered as one elective course during 7th and/or 8th semesters and can be considered for GPA and CGPA calculation.

If a student studies more number of electives (PEC/OEC) than required as per the student's programme curriculum, the courses with higher grades alone will be considered for calculation of CGPA.

The grades O, A+, A, B+, B obtained for the one/two credit course shall figure in the Grade sheet under the title 'Value Added Courses'. The Courses for which the grade RF will not figure in the Grade sheet.

16. ELIGIBILITY FOR THE AWARD OF DEGREE

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

- i. Successfully gained the required number of total credits as specified in the curriculum corresponding to the student's programme within the stipulated time.
- ii. Successfully completed the course requirements, appeared for the End Semester Examination and passed all the courses as prescribed in clause 5.1.
- iii. Successfully passed any additional courses prescribed by the Re-Admission Committee whenever Re-admitted under Regulation 2023. (vide clause 19 & 20)
- iv. No disciplinary action pending against the student.
- v. The award of Degree must have been approved by the Affiliating University.

Handwritten signature and date: 15/09/2023



16.2.2. First Class Degree

Degree	Duration of Programme	Duration permitted	Additional credits above the requirement of curriculum	CGPA	Pass in	Break of study	Prevention due to lack of attendance	Withdrawal from writing end semester examination
(i)	(ii)	(iii)	(iv)	(v)	(vi)	(vii)	(viii)	(ix)
B.E./B.Tech (Lateral / Regular)	3 / 4 Years (Lateral / Regular)	4 / 5 Years (Lateral / Regular)	Nil	6.50	-	One year authorized break of study included in the Duration permitted (iii)	Included in the Duration permitted (iii)	-
B.E./B.Tech (Honours) Specialization in the same discipline	3 / 4 years (Lateral / Regular)	4 / 5 years (Lateral / Regular)	18 credits from any one vertical of the same programme	7.50	First Attempt	One year authorized 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 / Regular)	4 / 5 years (Lateral / Regular)	18 credits from more than one verticals of the same programme	7.50	First Attempt	One year authorized 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 / Regular)	4 / 5 years (Lateral / Regular)	18 credits from any one vertical of the other programme	6.50	-	One year authorized break of study included in the Duration permitted (iii)	Included in the Duration permitted (iii)	-



Handwritten signature and date: 15/09/2023

16.2. CLASSIFICATION OF THE DEGREE AWARDED**16.2.1. First Class with Distinction/Honours/Minor Degree**

Degree	Duration of Programme	Duration permitted	Additional credits above the requirement of curriculum	CGPA	Pass in	Break of study	Prevention due to lack of attendance	Withdrawal from writing end semester examination
(i)	(ii)	(iii)	(iv)	(v)	(vi)	(vii)	(viii)	(ix)
B.E./B.Tech (Lateral / Regular)	3 / 4 Years (Lateral / Regular)	4 / 5 Years (Lateral / Regular)	Nil	8.50	First Attempt	One year authorized break of study included in the Duration permitted (iii)	Not permitted	Will not be considered as an attempt
B.E./B.Tech (Honours) Specialization in the same discipline	3 / 4 years (Lateral / Regular)	4 / 5 years (Lateral / Regular)	18 credits from any one vertical of the same programme	8.50	First Attempt	One year authorized 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 / Regular)	4 / 5 years (Lateral / Regular)	18 credits from more than one verticals of the same programme	8.50	First Attempt	One year authorized 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 / Regular)	4 / 5 years (Lateral / Regular)	18 credits from any one vertical of the other programme	8.50	First Attempt	One year authorized break of study included in the Duration permitted (iii)	Not permitted	Will not be considered as an attempt



Handwritten signature and date: 15/09/23

16.2.3. Second Class

- B.E/B.Tech regular and lateral entry and B.E/B.Tech in minor in other specialization degree students (not covered in clauses 16.2.1 and 16.2.2) who qualify for award of degree (wide clause 16.1) shall be declared to have passed the examination in Second Class.

16.2.4. students earned additional 18 credits as per clause 12 but does not satisfy the condition (16.2.1 and 16.2.2) shall not be awarded honours. In such case the mark sheet will show the additional course studies and those course shall not be considered CGPA computation. In such case if the student become eligible for first class while computing CGPA without taking into account the additional course studied. The student shall be awarded in B.E/B.Tech first class only (or) student may opt to consider these additional courses as per clause 12.

17. PHOTOCOPY / REVALUATION

A candidate can apply for photocopy of his/her semester examination answer script in a theory course, within a week from the declaration of results, on payment of a prescribed fee through proper application to the Controller of Examinations through the Head of Institution. The answer script is to be valued and justified by a faculty member, who handled the course and recommend for revaluation with breakup of marks for each question. Based on the recommendation, the candidate can apply for the revaluation through proper application to the Controller of Examinations. The Controller of Examinations will arrange for the revaluation and the results will be intimated to the candidate concerned through the Head of the Institution. Revaluation is not permitted for practical courses and for project work. A candidate can apply for revaluation of answer scripts for not exceeding 5 courses at a time. Candidates applying for Photocopy alone are eligible to apply for Revaluation.

18. REVIEW

Candidates 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 Controller of Examinations through the Head of the Institution. Candidates applying for Revaluation alone are eligible to apply for Review.

19. PROVISION FOR WITHDRAWAL FROM EXAMINATION

19.1 A student may, for valid reasons, (medically unfit/ unexpected family situations / sports approved by BoS Chairman/ Sports Board, HOD and Head of the Institution) 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. Withdrawal essentially requires the student to register for the course/courses, fulfill the attendance requirements (vide clause 7), earn continuous assessment marks and eligible to attend the End Semester Examination. The application shall be sent to the CoE through the Head of the Department along with the approval of the Head of the Institution with required documents.

- 19.1.1. Notwithstanding the requirement of mandatory 10 days, applications for withdrawal for special casus under extraordinary conditions will be considered on the merit of the case.
- 19.2 In case of withdrawal from the course/courses, the course will figure both 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.
- 19.3 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).
- 19.4 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 30/60 days after the declaration of results for Project Work respectively and the same shall not be considered as reappearance.
- 19.5. Withdrawal is not permitted for the semester I and VIII

20. PROVISION FOR AUTHORISED BREAK OF STUDY

- 20.1. A student is permitted to go on authorized break of study for a maximum period of one year as a single spell.
- 20.2. Break of Study shall be granted only once for valid reasons for a maximum of one year during the entire period of study of the degree programme. However, in extraordinary situation the candidate may apply for additional Break of Study not exceeding another one year by paying prescribed fee for Break of Study. If a candidate intends to temporarily discontinue the programme in the middle of the semester for valid reasons, and to rejoin the programme in a subsequent year, permission may be granted based on the merits of the case provided he / she applies to the Director, Students Affairs and DOTE in advance, but not later than the last date for registering for the End Semester Examination of the semester, through the Head of the Institution stating the reasons and the probable date of rejoining the programme. However, if the candidate has not completed the first semester of the programme, Break of Study will be considered only on valid medical reasons.
- 20.3 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 students re-joining in new Regulations shall register for additional courses, If any, as notified by the Academic Council and BoS 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, the total number of 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.

- 20.4. The authorized break of study is included in the duration specified for passing all the courses for the purpose of classification (vide Clause 16.2).
- 20.5. The total period for completion of the Programme reckoned from, the commencement of the first semester to which the candidate was admitted shall not exceed the maximum period specified in clause 5.1 irrespective of the period of break of study in order that he/she may be eligible for the award of the degree.
- 20.6. If any student is prevented for want of required attendance, the period of prevention shall not be considered as authorized 'Break of Study' (Clause 20.1).
- 20.7. If a student in Full Time 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 Director, Centre for Academic Courses with due proof to that effect.
- 20.7. No fee is applicable to students during the Break of Study period.

21. DISCIPLINE

- 21.1. Every student is required to observe disciplined and decorous behavior 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 Head of the Institution, Head of the Departments to which the student concerned belongs, and the Head of another Department to enquire into acts of indiscipline and notify the University about the disciplinary action recommended for approval. In case of any serious disciplinary action which leads to suspension or dismissal, then a committee shall be constituted by the Head of the Institution for taking final decision.
- 21.2. If a student indulges in malpractice in any of the examinations, the student shall be liable for punitive action as prescribed in the regulations and exam manual by the Controller of Examinations from time to time.

22. REVISION OF REGULATIONS, CURRICULUM AND SYLLABI

The College may from time-to-time revise, amend or change the Regulations, scheme of examinations and syllabi if found necessary, through the Recommendation of respective Board of Studies and approval of Academic Council of the College.

Handwritten signature and date: 15/09/2023
