



# SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)  
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956  
NAAC Accredited with 'A' Grade

**TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU**



## B.E. / B.Tech.

### UG REGULATIONS – 2023 (CHOICE BASED CREDIT SYSTEM)



Note: The regulations hereunder are subject to amendments as may be decided by the Academic Council of the Sengunthar Engineering 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 programme under the same Regulations as may be decided by the Academic Council.





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## INDEX

<b>S.No.</b>	<b>Description</b>	<b>Page No.</b>
1	U.G. Regulations 2023	1-25
2	Minor / Honours Degree	26-31
3	N.C.C Guidelines	32



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## REGULATIONS – 2023 (CHOICE BASED CREDIT SYSTEM)

### Common to All B.E. / B.Tech. Degree Programmes

(For the students admitted to B.E./B.Tech. Programmes from the Academic year 2023--2024 onwards)

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 2023” is applicable to the candidates admitted to the Bachelor of Engineering (B.E. / B.Tech.) Degree Programmes of the Institution in the academic year 2023-2024 and subsequently.

## PRELIMINARY DEFINITIONS AND NOMENCLATURE

In these Regulations, unless the context otherwise Specifies:

“**University**” means ANNA UNIVERSITY, Chennai.

“**College**” means SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS), TIRUCHENGODE.

“**Programme**” means UG Degree Programme that is B.E./ B.Tech. Degree Programme.

“**Branch**” means specialization or discipline of B.E./ B.Tech. Degree Programme, like Civil Engineering, Information Technology, etc.

“**Course**” means a theory or practical course that is normally studied in a semester, like Mathematics, Physics and Chemistry Laboratory, etc.,

“**Credit**” means a numerical value allocated to each course to describe the candidate’s workload required per week.

“**Grade**” means the letter grade assigned to each course based on the marks range specified

“**Grade Point**” means a numerical value (0 to 10) allocated based on the grade assigned to each course.



**“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.

**“Controller of Examinations”** means authorized person who is responsible for examinations of the College.

**“Head of the Department”** means the Head of the Department of the Programme concerned.

**“CBCS”** means Choice Based Credit System

**“CIA”** means Continuous Internal Assessment

**“ESE”** means End Semester Examination

**“PC”** means Professional Core

**“PE”** means Professional Elective

**“OE”** means Open Elective

**“GE”** means General Elective

## 1. PREAMBLE

Sengunthar Engineering College with a spotlighted vision and mission of imparting quality technical education to go with latest technologies is accelerating several initiatives towards successful academic excellence and quality improvement.

In view of this, the Choice Based Credit System (CBCS) has been followed to build up interdisciplinary and multidisciplinary curriculum with advances in student centric programmes and extensive learning prospective with enriched and flexible curriculum. Students will have the choice of preferred courses from a Group of courses within each categorization. Plentiful options are given to choose interdisciplinary courses from other programmes which will help the student to develop supplementary skills. CBCS proposes flexibility for students to choose course of their interest from a broad choice of courses offered in addition for the enhancement of their skill levels.

A Faculty advisor facilitates a student in identifying the courses based on programme requirements, course prerequisites, student’s ability and curiosity in various academic disciplines towards their academic progression.

The proposed academic structure under the Choice Based Credit System shall make all promising and possible innovations preparing the students to face the challenges in their profession.

## **2. PROCEDURE OF ADMISSIONS**

### **2.1 FIRST SEMESTER ADMISSION**

The candidates seeking admission to the first semester of the eight semester Degree of Bachelor of Engineering (B.E./B.Tech.) programme should have passed the Higher Secondary Examination (10+2) in the academic stream with Mathematics, Physics and Chemistry as three of the four subjects of study under Part-III subjects of the study conducted by the Government of Tamil Nadu or any examination of any other Board / University or authority accepted by the Syndicate of Anna University, Chennai 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.

They should also satisfy other eligibility conditions as prescribed by AICTE, the Anna University, Chennai and Directorate of Technical Education, Chennai from time to time.

### **2.2 LATERAL ENTRY ADMISSION**

The candidates who possess the Diploma in Engineering/Technology awarded by the Directorate of Technical Education, Tamilnadu or its equivalent are eligible to apply for Lateral entry admission to the third semester of B.E./ B.Tech. as per guidelines prescribed by the Directorate of Technical Education, Tamilnadu.

(OR)

The candidates who possess the Degree in Science (B.Sc.,) (10+2+3 stream) with Mathematics as a subject at the B.Sc. Level are eligible to apply for Lateral entry admission to the third semester of B.E./ B.Tech. which is prescribed by the Anna University, Chennai and Directorate of Technical Education, Chennai from time to time.

Such candidates shall undergo two additional Engineering subject(s) in the III and IV semesters respectively as decided by Board of Studies and approved by Academic Council.

## **3. PROGRAMMES OFFERED**

A candidate may select any one of the Programme offered by the college which is approved by AICTE, New Delhi and Affiliated to the Anna University, Chennai.

### 3.1 DETAILS OF PROGRAMMES

Details of programmes currently being offered by the college are given below:

S.No.	Name of the Programme	Minimum No. of Credits to be Earned
1.	B.E. Civil Engineering	165
2.	B.E. Computer Science and Engineering	165
3.	B.E. Electronics and Communication Engineering	165
4.	B.E. Electrical and Electronics Engineering	164
5.	B.E. Mechanical Engineering	166
6.	B.E. Computer Science and Engineering (Cyber Security)	166
7.	B.E. Medical Electronics	165
8.	B.E. Robotics and Automation	165
9.	B.Tech. Information Technology	165
10.	B.Tech. Artificial Intelligence and Data Science	164
11.	B.Tech. Pharmaceutical Technology	165

### 3.2 PROGRAMME OF STUDIES

All the degree programmes offered by the college are based on modular structure and their academic requirements are spelt out as number of credits. Programmes are structured in such a way that a student will be able to complete the programme within the stipulated number of semesters. On the recommendations of the Head of the Department a student may be granted permission by the Chairperson, Academic Council to have a break in the programme; however the programme should be completed within the permitted number of semesters.

Degree	Stipulated Number of Semesters	Permitted Number of Semesters
B.E/ B.Tech (Regular)	8	14
B.E/ B.Tech (Lateral)	6	12

## 4. STRUCTURE OF THE PROGRAMMES

### 4.1 Categorization of Courses

Every B.E./ B.Tech. Programme shall have a curriculum with syllabi consisting of both theory and practical courses in each semester that have been approved by the respective Board of Studies and Academic Council of the College.

The courses shall be categorized as follows:

- I. **Humanities and Social Sciences (HS)** courses include English, Heritage of Tamils, Tamil and Technology, Human value Ethics and Environmental Sciences and Sustainability etc.,
- II. **Basic Sciences (BS)** courses include Mathematics, Physics, and Chemistry etc.
- III. **Engineering Sciences (ES)** courses include Engineering Practices, Engineering Graphics, Basics of Electrical, Electronics, Civil, Mechanical and Instrumentation Engineering, Computer Science etc.
- IV. **Professional Core (PC)** courses include the core courses relevant to the chosen branch of study.
- V. **Professional Elective (PE)** courses include the elective courses relevant to the chosen branch of study.
- VI. **Open Electives (OE)** Courses include the courses offered by the other branches can be chosen from the list specified in respective curriculum. However, the open elective courses offering are subject to availability of minimum class strength specified from time to time.
- VII. **General Elective (GE)** Includes NCC Air Force / Army and Management Courses for the students.( Guidelines for NCC Air Force / Army are given in the page no.32)
- VIII. **Employability Enhancement Courses (EEC)** include Soft skills, Technical skills, Project Works, Industrial / Practical Training, Internship, Seminar, Communications Skill, Case Study, Foreign Language, Professional Development, Quantitative Aptitude Learning, Entrepreneurship Development Activity, etc., Credits will be awarded only for **Project and Innovative Product Development** grades will be part of either GPA (or) CGPA.
- IX. **Mandatory Courses (MC)** include Induction Program, Life Skills and Leadership Enhancement Program, Value Added Courses covering subjects of developing desired attitude among the learners is on the line of initiatives such as Yoga, Human Value education, Disaster management, Constitution of India, Introduction to Women and Gender Studies, Elements of Literature, Film Appreciation, History of Science, Political and Economical Thoughts, Nation Building and Industrial Safety etc. in which credits are to be acquired by every student as part of degree requirements



and shall be awarded grades; but, shall not be part of either GPA (or) CGPA.

#### **X. Minor Degree / Honours**

Students who are desirous of pursuing their special interest areas other than the chosen discipline of Engineering may opt for additional courses in minor specializations offered by a department other than their parent department or Honours specializations offered by the parent department.

A student shall be permitted to register for a Minor degree / Honours at the beginning of 3<sup>rd</sup> or 5<sup>th</sup> semester provided that the student must have acquired 7.5 CGPA (Cumulative Grade Point Average) up to 2<sup>nd</sup> semester and 4<sup>th</sup> Semester respectively. Lateral entry students with 75% Marks in their Diploma are also eligible. A student shall earn 18-20 additional credits to be eligible for the award of B.E. / B.Tech (Minor Degree / Honours). (More details are available in Minor degree / Honours Guidelines in page No.26).

#### **4.2 PERSONALITY AND CHARACTER DEVELOPMENT**

Interested students should enroll their names in one or more personality and character development programmes (NCC / NSS / NSO / YRC / RRC) 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 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. While the training activities will normally be during weekends and the camp will normally be during vacation period.

#### **4.3 NUMBER OF COURSES PER SEMESTER:**

Number of Courses per Semester will normally have a blend of 5 to 9 courses including Theory / Lab Embedded Theory / Project / Laboratory courses / Mandatory Courses / Employability Enhancement Courses. Each Course may have credits assigned as per clause 4.4.



#### 4.4 CREDIT ASSIGNMENT

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

CONTACT PERIOD PER WEEK	CREDITS
1 Lecture Period	1
1 Tutorial Period	1
2 Practical Periods (Laboratory / Seminar / Project Work / etc.)	1

The minimum credits to be earned by the students should be 160 to 166 for regular students and 119 to 124 for lateral entry students for the completion of B.E./B.Tech. Programme.

#### 4.5 INDUSTRIAL TRAINING / INTERNSHIP

4.5.1 The students must 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 / Industry after due approval from their Head of the Department for the period prescribed in the curriculum during summer/winter vacation, in lieu of Industrial training.

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 Mark Sheet.

A Committee will be formed by the Head of the Departments concerned to evaluate the report submitted by the student after the completion of the Industrial Training / Internship and will be recommended to Controller of Examinations.

Duration Of Training / Internship	Credits
2 Weeks	1
4 Weeks	2
6 Weeks	3

#### 4.6 INDUSTRIAL VISIT

It is required that every student is required to go for at least one Industrial visit from the second year to final year of the Programme. The Heads of Departments will ensure that necessary arrangements are made in this regard.

#### **4.7 ONLINE COURSES**

Students may be permitted to earn credit of maximum two online courses (SWAYAM / NPTEL / MOOC) subject to a maximum of six credits, with the approval of the Head of the Department and Head of the Institution, in lieu of Open Elective / professional Elective.

#### **4.8 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. The credits earned through the Value Added Courses shall be over and above the total credit requirement prescribed in the curriculum for the award of the degree. One / Two credit courses shall be offered by the Department with the prior approval from the Board of Studies. Students can take a maximum of Four credits either by one / two credit courses during the entire duration of the Programme. The credit to be earned by the student shall not be included in GPA or CGPA calculations, but the grade point will figure in the grade sheet.

#### **4.9 MEDIUM OF INSTRUCTION**

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

### **5. DURATION OF THE PROGRAMME**

- 5.1** A student is ordinarily expected to complete the B.E. / B.Tech. Programme in 8 semesters (Four academic years) and 6 semesters (Three academic years) for Lateral Entry Candidates 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 525 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 total duration for completion of the programme reckoned from the commencement of the first semester to which the student was admitted shall not exceed the maximum duration specified in clause 5.1 irrespective of the period of break study (vide clause 17) or prevention (vide clause 7.5) in order that the student may be eligible for the award of the degree (vide clause 15).

## **6. COURSE ENROLLMENT AND REGISTRATION**

- 6.1** Each student, on admission shall be assigned to a faculty advisor who shall advise and counsel the student about the academic programme and the choice of courses considering the students' academic background and career objectives.
- 6.2** The number of credits registered during a semester should not be less than 10 credits and should not exceed 30 credits. (Excluding courses for which the student has done reappearance registration).
- 6.3** Each student on admission shall register for all the courses prescribed in the curriculum in the student's first and second semester of study without any choice.
- 6.4** Every student shall enroll in the courses of the succeeding semester during the current semester. However, the student shall confirm the enrollment by registering for the courses within the first five working days after the commencement of the semester concerned.
- 6.5** 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 Six credits (vide clause 6.7)). The courses dropped in earlier semesters can be registered in the subsequent semesters when offered.

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.

### **The course that a student registers in a particular semester may include**

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

The maximum number of credits that can be registered in a semester is 30. However, this does not include the number of Re-appearance (RA) and Withdrawal (W) courses registered by the student for the appearance of Examination.

## **6.6 Flexibility to Add or Drop or Advancement of Courses**

- 6.6.1.** From the 5 to 8 semesters, the student has the option of registering for, additional courses or dropping existing courses. Total number of credits of such additional courses cannot exceed 8. However, the maximum number of credits the students

can register in a particular semester cannot exceed 30 credits (Excluding the reappearance registration).

6.6.2. 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 the student wishes, he/she is permitted to earn more than the number of credits prescribed in the curriculum of the student's programme.

6.6.3. The student shall register for the project work in the VI semester and Innovative Product Development in VIII semester only.

6.6.4 The students who completed their Seventh semester courses in advance shall be permitted to carry out their final semester Innovative Product Development in an industry/research organization.

These students shall undergo the Seventh semester courses in the Fifth and Sixth semesters, provided they do not have current arrears and have a CGPA of 7.50 and above at the end of Semester IV.

The HoDs, in consultation with the faculty handling the said courses shall submit the proposal to the Head of the Institution for approval at least 2 weeks before the commencement of the sixth semester of the programme.

## **6.7 Registration for Reappearance**

6.7.1 If a student absents for examination or not scored minimum passing marks (vide clause 12) in a course (both theory and practical), it will be considered as a Reappearance (RA). The student can retain the already earned Continuous Internal Assessment marks for two subsequent appearances only and thereafter he / she will solely be assessed by the performance in the End Semester Examination only.

6.7.2 If the theory course, in which the student will reappear, is an open elective, the student may register for the same or any other open elective course respectively in the subsequent semesters.

6.7.3 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 letter grades / marks.

6.7.4 If a student absent for either in Theory or in Practical or not scored minimum passing mark (put together in theory and Practical) in a Embedded Course, the student shall register for both the Theory and the Practical End Semester Examinations. The student can retain the already earned Continuous Internal Assessment marks for two subsequent appearances only.

## **7. ATTENDANCE REQUIREMENTS FOR APPEARING FOR THE END SEMESTER EXAMINATION**

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

- 7.1** 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 hospitalization / accident / specific illness the student is expected to earn a minimum of 75% attendance to become eligible to appear for the End-Semester Examinations. 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 less than 75% in that current semester due to medical reasons (hospitalization / accident / specific illness / participation in sports events - College / University / State / National / International level Sports events with prior permission from the Head of the Department and Principal) may be permitted to appear for the current semester examinations subject to the condition that the candidate shall submit the Medical certificate / On-duty Forms duly signed by the Head of the Department / Sports participation certificate to the Head of the Institution.
- 7.3** The candidates who score less than 65% and above 60% 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 semester examination. The Candidate can seek condonation of shortage of attendance only once in the entire duration of a course.
- 7.4** A student shall normally be permitted to appear for End Semester Examinations if the student has satisfied the attendance requirements (vide clause 7.1, 7.2 and 7.3) and has registered for examination in the courses which he / she has opted during the beginning of that semester by paying the prescribed fee.
- 7.5** However the Candidates who secure, less than 60% overall attendance and who do not satisfy the clause 7.1 & 7.2 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 as per the norms prescribed by the Directorate of Technical Education, Tamilnadu and Anna University, Chennai.

- 7.6** 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 required for appearing in the End Semester Examinations, 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 -- Total No. of periods taken together for all courses of the semester

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.

## **8. CLASS ADVISOR**

To help the students in plan their courses of study and for general advice on the academic programme, the Head of the Department of the students will attach a certain number of students to a faculty of the department who shall function as faculty advisor for those students throughout their period of study. The Class advisor shall advise the students, monitor their attendance, progress and counsel them periodically. If necessary, the Class advisor may also discuss with or inform the parents about the progress / performance of the students concerned.

The responsibilities for the Class advisor shall be:

- 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.
- To monitor and provide the academic guidance rules and regulations for EEC courses.

## **9. CURRICULUM DEVELOPMENT CELL**

Curriculum Development Cells are constituted for planning and updating of syllabus to be presented to the Board of Studies. Similarly, the Common Curriculum Development Cell is constituted for finalizing the subjects for both common and departmental core. Curriculum Development Cell is a standing internal committee with all the internal members of the Board of Studies and Academic Council and any other faculty co-opted / nominated by the Head of the Department.

## **10. COURSE COMMITTEES**

### **10.1 COMMON COURSE COMMITTEE**

A theory course handled by more than one faculty shall have a "Common Course Committee" comprising of all faculty teaching that course and some students who have appeared in that course. There shall be two student representatives from each batch of that course. One of the faculties shall be nominated as Course Coordinator by the Principal.

The first meeting of the Common Course 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 decided in the first meeting within the framework of the Regulations. Two or three subsequent meetings in a semester may be held at suitable intervals. During these meetings, the student members shall actively 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 the entire batch.

The "Common Course Committee" (without the student representatives) shall meet to ensure uniform evaluation of continuous assessments after arriving at a common scheme of evaluation for the assessments (vide clause 11).

In addition, the Common Course Committee should decide the mark distribution for Laboratory courses.

Wherever feasible, the common course committee (without the student representatives) shall prepare a common question paper for the continuous assessment tests also. The question paper for the End Semester Examination is common and shall be set by the Course Coordinator in consultation with the entire faculty.

### **10.2 CLASS COMMITTEE**

A Class Committee consists of all faculties handling courses of the concerned class, student representatives-cross section of students (academically good, average, and poor) and a chairperson who is a faculty not handling any course of 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 & Co-curricular Components) 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 weak students, if any, and requesting the faculty concerned to provide some additional help or guidance or coaching to such weak students.

**10.2.1** 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 first semester which is generally common to all programmes), the class committee is to be constituted by the Head of the Department concerned.

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

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

**10.2.4** The chairperson of the class committee may invite the Tutor(s) and the Head of the Department to the meeting of the class committee.

**10.2.5** The Principal may participate in any class committee meeting.

**10.2.6** The chairperson is required to prepare the minutes of every meeting, submit the same to the Head of the Department 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 them management, the same shall be brought to the notice of the management by the head of the institution.

**10.2.7** The class committee shall meet at least four times 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 class committee meeting shall be held a week after the Continuous Internal Assessments. During these meetings the student members shall actively 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 proceeding so of these meetings to the entire batch.

**10.2.8** 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 PROCEDURE FOR AWARDING MARKS FOR INTERNAL ASSESSMENT**

For all the theory courses, laboratory courses and Lab embedded theory courses and project work the continuous internal assessment shall be awarded as per the procedure given below.

### **11.1 ASSESSMENT FOR THEORY COURSES**

#### **Credit Assignment**

<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>3</b>	<b>0</b>	<b>0</b>	<b>3</b>
<b>3</b>	<b>1</b>	<b>0</b>	<b>4</b>

Three assessments each carrying 100 marks shall be conducted during the semester by the college. The total marks obtained in all assessments put together out of 300, shall be converted to 40 marks.

<b>CIA 1 (100 Marks)</b>		<b>CIA 2 (100 Marks)</b>		<b>CIA 3 (100 Marks)</b>		<b>Total Internal Assessment</b>
Assignment / Seminar / Mini Project / Case Study /any other experiential learning	Written Test	Assignment / Seminar / Mini Project / Case Study / any other experiential learning	Written Test	Assignment / Seminar / Mini Project / Case Study /any other experiential learning	Written Test	
<b>40</b>	<b>60</b>	<b>40</b>	<b>60</b>	<b>40</b>	<b>60</b>	<b>300*</b>

**\*The weighted average shall be converted into 40 marks for Internal Assessment**

A minimum of three continuous internal assessments will be conducted as a part of continuous assessment. Each continuous internal assessment is to be conducted for 100 marks and will have to be distributed in two parts viz. Assignment / Seminar / Mini Project / Case Study / any other experiential learning and Written Test with each having a weightage of 40% and 60% respectively. The total internal assessment marks of 300 shall be converted into a maximum of 40 marks and rounded to the nearest integer.

## 11.2 ASSESSMENT FOR LABORATORY COURSES

### Credit Assignment

L	T	P	C
0	0	4	2

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 are to be maintained. There shall be at least one model practical exam. 75 marks for the completion of all the prescribed experiments and 25 marks for model practical test. The total mark shall be converted into a maximum of 60 marks and rounded to the nearest integer.

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

**\*Internal assessment marks shall be converted into 60 marks**

## 11.3 ASSESSMENT FOR LAB EMBEDDED THEORY COURSES

### Credit Assignment

L	T	P	C
3	0	2	4

The assessment of the embedded theory shall be as that of theory (vide clause 11.1) and the assessment of the embedded lab shall be as that of the lab (vide clause 11.2) and the cumulative mark will be calculated based on the theory and laboratory components giving **25 percentage** for theory and **25 percentage** weightage for laboratory. Weightage of internal assessment and End Semester Examinations marks will be derived as 35% of marks scored out of max 100 marks of Theory exams and 15% of marks scored out of max 100 marks of Practical exams.

## 11.4 MINI PROJECT/ PROJECT WORK/ INNOVATIVE PRODUCT DEVELOPMENT

The student shall register for Project Work in sixth semester and Innovative Product Development in final semester. Project work may be allotted to a single student or to a group of students not exceeding 4 per group.

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 Head of the Institutions 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 coordinator from the Department.

There shall be three reviews during the semesters VII and VIII by the review committee. The student shall make presentation on the progress made by him / her before the committee. The total marks obtained in the three reviews shall be **reduced for 40marks** and rounded to the nearest integer (as per the scheme given in 11.4.1).

#### 11.4.1 ASSESSMENT FOR MINI PROJECT/ PROJECT WORK/ INNOVATIVE PRODUCT DEVELOPMENT:

The project report shall carry a maximum of 20 marks. The project report shall be submitted as per the approved guidelines 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 40 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 Examinations				
			Project Report		Viva-Voce Examination		
			Internal	External	Internal	External	Supervisor
10	15	15	10	10	10	20	10

If the project report is not submitted on or before the specified deadline, an extension of the time up to a maximum limit of 10 days may be given for the submission of project work by paying additional fee to conduct separate viva voce examination with due approval obtained from the Head of the Department. If the project report is not submitted even beyond the extended time, then the student(s) is deemed to have the grade "RA" (Reappearance) in the Project Work and that student(s) with grade "RA" shall reappear for the same in the subsequent semester.

#### 11.5 ASSESSMENT FOR ONLINE COURSES

Students may be permitted to earn credit from two online courses (which are to be provided with a certificate) with the approval of Head of the Department and Head of the Institution subject to a maximum of three credits per course. The online course of 3 credits can be considered instead of one elective course. 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 norms. The details regarding online courses taken up by the student and marks/credits earned shall be sent to the Controller of Examinations in the subsequent semester(s) along with the details of the elective(s) to be dropped.

#### **11.6 ASSESSMENT FOR EMPLOYABILITY ENHANCEMENT COURSES**

The Assessment for all the EEC courses shall carry 100 marks and shall be evaluated only through continuous internal assessments except Mini Project / Project Work / Innovative Product Development.

#### **11.7 ASSESSMENT FOR MANDATORY COURSES**

Mandatory Courses are Non-Credit based courses that are required to be completed to fulfill the degree requirements.

#### **11.8 ASSESSMENT FOR VALUE ADDED COURSES**

The two credit course shall carry 100 marks and shall be evaluated only through Continuous Internal Assessments. The evaluation procedure and criteria for allocation of credit may be decided by the certifying authority / Course coordinator with the approval of the Head of the Department. The Head of the Department may identify a faculty member as a coordinator for the course. The grades shall be assigned to the students based on their relative performance.

### **12 PASSING REQUIREMENTS**

A student who secures not less than 50% of total marks prescribed for the course [Internal Assessment + End Semester Examinations] with a minimum of 45% of the marks prescribed for the End Semester Examination, shall be declared to have passed the course and acquired the relevant number of credits. This is applicable for both theory and laboratory courses (including Mini Project / Project Work / Innovative Product Development).

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

If any other Professional Elective or Open Elective course is opted by the student, the previous registration is cancelled and henceforth it is to be considered as a new Professional Elective or Open Elective course. The student has to register and attend the classes, earn the continuous assessment marks, fulfill the attendance requirements as per clause 7 and appear for the end semester examination.

If a student is absent during 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 can do Project Work.

### 13 REVALUATION

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

### 14 REAPPEARANCE IN LAB EMBEDDED THEORY COURSES

If a student absent for either in Theory or in Practical or not scored minimum passing mark (put together in theory and Practical) in a Embedded Course, the student shall reappear for both the Theory and the Practical End Semester Examinations.

### 15 AWARD OF LETTER GRADES

The award of letter grades will be decided based on relative grading principle. The relative grading is applicable to ONLY those students who have passed the examination as per the passing requirements said above. For those students who have not passed the examinations, Reappearance (U) shall be awarded as shown in the below table.

For those students who have passed the course, the relative grading shall be done. The marks of these students who have passed only shall be fed in the software developed for relative grading. The evolved relative grading method normalizes the results data using the BOX-COX transformation method and

computes the grade range for each course separately and awards to each student. For a given course, if the student's strength is greater than 30, the relative grading method shall be adopted. However, if the students strength is less than or equal to 30 then the fixed grading shall be followed with the grade range as specified below.

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

The performance of a student shall be reported using letter grades, each carrying certain points as detailed below:

<b>Letter Grade</b>	<b>Grade Points</b>
<b>O (Outstanding)</b>	<b>10</b>
<b>A+ (Excellent)</b>	<b>9</b>
<b>A (Very Good)</b>	<b>8</b>
<b>B+ (Good)</b>	<b>7</b>
<b>B (Average)</b>	<b>6</b>
<b>C (Satisfactory)</b>	<b>5</b>
<b>RA (Re-appearance)</b>	<b>&lt; 50</b>
<b>AB (Absent)</b>	<b>-</b>
<b>W (Withdrawal)</b>	<b>-</b>
<b>CC (Course Completed)</b>	<b>&gt; = 50</b>
<b>CNC (Course Not Completed)</b>	<b>&lt; 50</b>

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

"RA" denotes reappearace required for examination in the course.

"AB" denotes absent for the particular course.

"W" denotes withdrawal from the exam for the particular course.

## 16. GPA AND CGPA CALCULATON

Grade Sheets will be issued to each student which will contain the following details:

- The list of courses registered during the semester and the grades scored
- The Grade Point Average (GPA) for the semester and



- The Cumulative Grade Point Average (CGPA) of a courses registered from the semester
- During each semester the list of courses registered and the grades scored on each course are used to compute the Grade Point Average (GPA). GPA is the ratio of the sum of the products of the number of credits of courses registered and the grade points corresponding to the grades scored in those courses, taken for all the courses, to the sum of the number of credits of all the courses in the semester.

$$GPA = \frac{\sum(Credits\ Acquired \times Grade\ Points)}{\sum(Credits\ Acquired)}$$

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

Where  $C_i$  - is the Credits assigned to the course

$GP_i$  - is the grade point corresponding to the grade obtained for each course.

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

- 16.1** CGPA will be calculated in a similar manner considering a course enrolled from first semester "RA" and "W" grades will be excluded in calculating GPA and CGPA.
- 16.2** The credits earned through one credit course shall not be considered for calculating GPA and CGPA However, completion of three one credit courses can be considered as one elective course during 7<sup>th</sup> and 8<sup>th</sup> semesters can be considered for GPA and CGPA calculation.
- 16.3** If a student studies more number of electives (PEC / OEC) than required as per the students' programme curriculum the courses with higher grades alone will be considered for calculation of CGPA.
- 16.4** The grades O, A+, A, B+, B obtained for the one / two credit courses shall figure in the Mark sheet under the title "Value Added Courses". The Courses for which the grade RA will not figure in the mark sheet.

## **17. ELGIBILITY FOR THE AWARD OF DEGREE**

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

- i. Successfully gained the required number of total credits as specified in the curriculum corresponding to the students programme within the stipulated time.
- ii. Successfully completed the course requirements appeared for the End Semester examinations and passed in the subjects prescribed in the Eight / Six semesters within a **maximum period of 7 years and 6 years in the case of Lateral Entry** reckoned from the commencement of the first semester (third in the case of Lateral Entry) to which the candidate was admitted.
- iii. Successfully passed any additional courses prescribed by the admission committee whenever readmitted under regulations R-2019 (vide clause 17.2)
- iv. No disciplinary action pending against the student.
- v. The award of Degree must have been approved by the University.

## **17.2 CLASSIFICATION OF THE DEGREE AWARDED**

### **17.2.1 FIRST CLASS WITH DISTINCTION**

- A candidate who satisfies the following conditions shall be declared to have passed the examination in First class with Distinction.
- Should have passed the End Semester Examination in all the courses of Eight semesters (Six semesters in the case of lateral entry) in his/her first appearance within Four years (Three years in the case of lateral entry) Withdrawal from examination (vide clause 16) will not be considered as an appearance One year authorized break of study (if availed) is permitted in addition to Four years (Three years in the case of lateral entry) for the award of First class with Distinction.
- **Should have Secured a CGPA of not less than 8.50.**

### **17.2.2 FIRST CLASS**

- A candidate who satisfies the following conditions shall be declared to have passed the examination in First class.
- Should have passed the End Semester Examination in all the courses of all the Eight semesters (Six semesters in the case of lateral entry) within 5 years (4 years in the case of lateral entry). One year authorized break of study (if availed) or prevention from writing the End Semester examination due to lack of attendance (if applicable) is included in the duration of 5 years (4 years in the case of lateral entry) for the award of First class.
- **Should have Secured a CGPA of not less than 6.50.**

### **17.2.3 SECOND CLASS**

All other students (not covered in clause 15.2.1 and 15.2.2) who qualify for the award of the degree (vide Clause 15.1) shall be declared to have passed the examination in Second Class.

**17.3** A student who is absent in the End Semester Examination in a course / project work after registering for the same shall be considered to have appeared in that examination (except approved withdrawal from end semester examinations as per clause 16) for the purpose of classification.

**18. PROVISION FOR WITHDRAWAL FROM EXAMINATION**

A candidate may for valid reasons with prior application be granted permission to:

**18.1** Withdraw from appearing for the examination of any one course or consecutive Examinations of more than one course in a semester examination.

**18.2** Such withdrawal shall be permitted only once during the entire period of study of the degree programme.

**18.3** Withdrawal of application is valid only if it is made within 10 days prior to the Commencement of the examination in that course or courses and recommended by the Head of the institution and approved by the Controller of Examinations.

**18.4** Even though the requirement of mandatory is 10 days notice, applications for Withdrawal for special cases under extraordinary conditions will be considered on the merit of the case.

**18.5** Withdrawal shall not be construed as an appearance for the eligibility of a candidate for First Class with Distinction.

**18.6** Withdrawal from the End Semester Examination is NOT applicable to arrear subjects of previous semesters.

**18.7** The candidate shall reappear for the withdrawn courses during the examination conducted in the immediate semester.

**18.8** Withdrawal shall not be permitted in the final semester examinations.

**18.9** Withdrawal shall not be permitted for all papers in a semester. He / She has to appear at least for one paper in a semester. Otherwise he / she shall be considered as break of study.

**19. PROVISION FOR AUTHORISED BREAK OF STUDY**

**19.1** 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 the 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 DOTE, Anna University, in advance, but not later than the last date for registering for the end semester examination of the semester in question, through the Head of the Institution stating the reasons therefore and the probable date of 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.

- 19.2** The candidates permitted to rejoin the programme after break of study / prevention due to lack of attendance, shall be governed by the Curriculum and Regulations in force at the time of rejoining. Students rejoining in new Regulations should appear in additional courses if any, as prescribed by the admission committee from any semester of the regulations in-force, so as to bridge the curriculum in-force and the old curriculum.
- 19.3** One year authorized break of study will not be counted towards the duration specified for passing all the courses for the purpose of classification (vide clause 17.1 and 17.2).
- 19.4** 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.
- 19.5** If any student is detained for want of requisite attendance, progress and good conduct, the period spent in that semester shall not be considered as permitted 'Break of Study' and Clause 17.3 is not applicable for this case.
- 19.6** All the norms may liable to change upon the terms of affiliated university.

## **20. DISCIPLINE**

- 20.1** Every student is required to observe discipline 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 Dean (Student Affairs), Head of the Departments to which the student concerned belongs, and the Head of another Department to inquire into acts of indiscipline and to recommend the Principal for taking the final decision.

**20.2** If a student indulges in malpractice in any of the examinations, the student shall be liable for punitive action as prescribed in the regulations from time to time.

## **21. REVISION OF REGULATIONS, CURRICULUM AND SYLLABI**

The College may from time to time revise, amend, or change the Regulations, Curriculum Syllabus and Scheme of examinations through the Board of Studies and academic council with the approval of the Governing Body of the College.

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## SENGUNTHAR ENGINEERING COLLEGE

(AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)  
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956  
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



### MINOR / HONOURS DEGREE

(Regulations– 2023 )

#### GUIDELINES

Looking to Global Scenario, Engineering students should have knowledge of subjects from other branches and some advanced subjects of their respective branch in which they are pursuing the degree. Regarding the same SEC has decided to offered Minor and Honours Degree as per the guidelines of AICTE.

An aspiring student can register for additional Five courses and acquire additional maximum of 19 credits for any ONE of the Degree Schemes (either Minor or Honours).

#### OBJECTIVES

The objectives of initiating the Minor or Honours Degree are:

- (a) To diversify the knowledge of the undergraduates.
- (b) To make the undergraduates more employable.
- (c) To have more educational and professional skills after the completion of the course.
- (d) To give a scope to specialize students in other streams of Engineering.

#### SCHEME OF MINOR / HONOURS DEGREE:

1. Second year and Third year B.E. / B.Tech students are only eligible to register Minor / Honours Degree Program.
2. A student shall earn 19 additional credits to be eligible for the award of B.E. / B.Tech Minor / Honours degree.
3. There are three theory courses of 3 credits each; one Lab embedded theory course of 4 credits and a Project with 6 credits.
4. A Second year student can register up to 7 credits and a Third year student can register upto 13 credits from the list of subjects of a branch of which he or she want to peruse Minor / Honours degree.
5. B.E./B.Tech.(Hons) Specialization in the same discipline, B.E./B.Tech.(Hons) and B.E./ B.Tech. Minor in other specialization.



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

- The student should have earned additionally a minimum of 19 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 additionally a minimum of 19 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 19 credits in any one of the verticals of other B.E. / B.Tech programmes or from any one of the following verticals:

DEPARTMENT	SPECIALISATION VERTICALS
Civil Engineering	1.Construction Technology
Computer Science and Engineering	1. Cyber Security 2. Artificial Intelligence and Machine Learning
Electronics and Communication Engineering	1. Internet of Things 2. Robotics
Electrical and Electronics Engineering	1. Sensors Technology 2. Electric Vehicles
Mechanical Engineering	1. 3D Printing 2. Industrial Safety Engineering
Medical Electronics Engineering	1. Advanced Healthcare Management
Robotics and Automation	1.Industrial Robotics 2.AI for Robotics
Information Technology	1. Multimedia 2. Cloud Computing
Artificial Intelligence and Data Science	1. Full Stack Development 2. Blockchain



6. For the categories 5 (i) to 5 (ii), the students will be permitted to register the courses from III Semester onwards provided the marks earned by the students until II semester should be of CGPA 7.50 and above and cleared all the courses in the first attempt.
7. For the category 5 (iii), the students will be permitted to register the courses from Semester III onwards provided the marks earned by the students until Semester II is CGPA 7.50 and above.
8. Lateral entry students who have joined in third semester require 75% Marks in their Diploma to register for Minor / Honours degree.
9. If a student is detained due to lack of attendance, he/she shall not be permitted to register the courses of Minor / Honours Degree.
10. The students shall complete Minor /Honours courses within stipulated period as notified (vide clause 15.1) for the completion of regular major B.E / B.Tech programme.
11. Minor / Honours degree shall not be awarded at any circumstances without completing the regular major B.E. / B.Tech programme in which a student got admitted.
12. 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.
13. 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.
14. The credits earned by the student from the courses of Minor/ Honours degree can be considered to calculate the CGPA with major B.E./ B.Tech programme.
15. The subjects completed under Minor / Honours degree shall not be considered as equivalent subjects in case the student fails to complete the major degree programme.
16. The overall attendance including Minor / Honours degree courses should be 75% and above. Otherwise students will not be permitted to continue the Minor / Honours degree due to lack of attendance. In such case, additional subjects studied will be accountable as per point 12 and 13.

17. Attendance Requirement, Continuous Internal Examination and End Semester Examinations and their evaluation procedure for Minor / Honours degree Courses are similar to the major B.E. / B. Tech programme as specified in the Regulations 2019.
18. The Examination for the Minor / Honours degree courses offered shall be conducted along with regular B.E. / B.Tech programme.
19. A separate transcript shall be issued for the minor subjects passed in each semester from the office of the Controller of Examinations.
20. Examination Fees will be as per norms of Sengunthar Engineering College.
21. The students are permitted to opt for only a single Minor / Honours Degree in his/her entire tenure of B.E. / B.Tech Course.
22. The students registered for Honours degree shall not be permitted to register for Minor Degree and vice versa.
23. Curriculum and the syllabi of the courses shall be approved by the Board of Studies and Academic Council.

#### **PROCEDURE FOR APPLYING FOR THE MINOR / HONOURS DEGREE**

1. The department offering the Minor / Honours degree will announce specialization and courses before the start of the session at the end of second and fifth semesters.
2. The interested students shall apply through the HOD of his/her parent department.
3. The concerned department will announce the list of the selected students for the Minor / Honours degree.
4. The whole process should be completed within one week before the start of every session.
5. Selected students shall be permitted to register the courses for Minor / Honours degree.
6. The students have to pay the requisite course fee for the Minor / Honours degree as prescribed the institute.

#### **REGISTRATION FOR THE MINOR / HONOURS DEGREE**

1. Each department offering the Minor / Honours degree will submit the final list of selected students to the Principal.
2. The selected students shall submit a joining letter to the Principal through the concerned HOD offering the Minor / Honours degree.
3. The student shall inform same to the HOD of his/her parent department.

4. The parent department and the department offering Minor / Honours shall maintain the record of student pursuing the Minor / Honours degree.
5. With the approval of the Principal and suggestion of class 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 Scheme of Minor / Honours degree.
6. Each department shall communicate the Minor / Honours degree courses registered by the students to the time table drafting committee and accordingly time table will be drafting. Time table committee shall prepare time table without any clash.
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 / Honours degree department and the Principal within two weeks after registration of the course.

### CLASSIFICATION OF DEGREE:

#### 15.2.1 FIRST CLASS WITH DISTINCTION

Degree (i)	Duration of the Programme (ii)	Duration permitted including one year authorized break of study (iii)	Additional credits above the requirement of curriculum (iv)	CGPA (v)	Pass in (vi)
B.E. / B.Tech (Regular)	4 Years	5 Years	-	8.50	First Attempt
B.E. / B.Tech (Lateral Entry)	3 Years	4 Years	-	8.50	First Attempt
B.E. / B.Tech (Honours) Specialization in the same discipline	3/4 Years (Lateral Entry, Regular respectively)	4/5 Years (Lateral Entry, Regular respectively)	19 credits from any one of the vertical of the programme	8.50	First Attempt
B.E. / B.Tech (Honours)	3/4 Years (Lateral Entry, Regular respectively)	4/5 Years (Lateral Entry, Regular respectively)	19 credits from any one of the vertical of the programme	8.50	First Attempt
B.E. / B.Tech Minor in other Specialization	3/4 Years (Lateral Entry, Regular respectively)	4/5 Years (Lateral Entry, Regular respectively)	19 credits from any one of the vertical of the programme	8.50	First Attempt

### 15.2.2 FIRST CLASS

Degree (i)	Duration of the Programme (ii)	Duration permitted including one year authorized break of study (iii)	Additional credits above the requirement of curriculum (iv)	CGPA (v)	Pass in (vi)
B.E. / B.Tech (Regular)	4 Years	5 Years	-	6.50	-
B.E. / B.Tech (Lateral Entry)	3 Years	4 Years	-	6.50	-
B.E. / B.Tech (Honours) Specialization in the same discipline	3/4 Years (Lateral Entry, Regular respectively)	4/5 Years (Lateral Entry, Regular respectively)	19 credits from any one of the vertical of the programme	7.50	First Attempt
B.E. / B.Tech (Honours)	3/4 Years (Lateral Entry, Regular respectively)	4/5 Years (Lateral Entry, Regular respectively)	19 credits from any one of the vertical of the programme	7.50	First Attempt
B.E. / B.Tech Minor in other Specialization	3/4 Years (Lateral Entry, Regular respectively)	4/5 Years (Lateral Entry, Regular respectively)	19 credits from any one of the vertical of the programme	6.50	-

### 15.2.3 SECOND CLASS

B.E. / B.Tech. Regular, Lateral Entry and B.E. / B.Tech. Minor degree in other specialization degree students (not covered in clauses 15.2.1 and 15.2.2) who qualify for the award of the degree (vide clause 15.1) shall be declared to have passed the examination in **Second Class**.

**15.2.4** Student earned additional 19 credits as per Clause 5 (i) and (ii) in Minor / Honours but does not satisfy the conditions mentioned in 15.2.1 or 15.2.2 shall not be awarded B.E. / B.Tech. Honours. In such cases the mark sheet will show the additional courses studied and those courses shall not be considered for CGPA computation. In such case if the student becomes eligible for First Class, while computing CGPA without taking into account the additional course studied, the student shall be awarded B.E. / B.Tech. in First Class only.

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# **NATIONAL CADET CORPS**

## **NCC – AIRFORCE & ARMY COURSE**

### **(A General Elective Course for NCC Students under Regulations – 2023)**

#### **GUIDELINES**

The AICTE / UGC are paving the way for offering National Cadet Corps training as an Elective Credit Course in technical institutions and universities. It has decided to roll out NCC as a subject to motivate students to join NCC in order to be disciplined and instill in them feelings of patriotism. Students who enroll for NCC will benefit by obtaining academic credits for NCC training in addition to acquiring NCC "B" and "C" certificates. The subject will also enhance employment opportunities. The course will be available in all universities and autonomous colleges across India which are currently having NCC troops or companies.

#### **SCHEME OF NCC (AIR FORCE & ARMY) - A GENERAL ELECTIVE COURSE**

- The National Cadet Corps (NCC) is a General Elective Credit Course under the Choice Based Credit System in Regulations 2023 of Sengunthar Engineering College.
- NCC general elective credits shall be transferred to the two Open Elective Courses of each 3 credits with the recommendation and approval of the Academic Steering Committee/SEC.
- This Elective course has two subjects with three credits each.
  - 23NCCL01 - NCC Airforce Level - 1
  - 23NCCL02 - NCC Airforce Level - 2
  - 23NCCL03 - NCC Army Level - 3
  - 23NCCL04 - NCC Army level - 4
- NCC Students can choose these two elective courses instead of two open electives offered in the respective semesters which are prescribed in the curriculum of their parent Department.
- The schedule and time table for these courses shall be included in the respective semester time table where open elective courses offered.
- Continuous Internal Assessment will be conducted from the theory and practical portions of the syllabus for 40 marks as per Regulation 2023.
- End Semester Examinations with 60% Weightage will be conducted by COE of SEC abiding its guidelines for setting Question paper and Evaluation as per Regulation 2023. The Questions will be set only from the theoretical portions of the syllabus.
- The Credits and Grade Points secured by the NCC students in this elective course will be accounted for CGPA calculations and the grades are marked in the grade sheets.