



SRI VENKATESWARA UNIVERSITY COLLEGE OF ENGINEERING TIRUPATI

Academic Rules & Regulations – 2025 (R-25)

For B.Tech. – Regular / Lateral Entry Scheme/ B.Tech. Regular with Honors/

B. Tech. (Major) with Minor Degree Programme(s)

**Choice Based Credit System (CBCS)
(Effective from Academic Year 2025-26)**

Henceforth, these shall be known as **Academic Regulations R-25** and shall be applicable for the batches admitted in the academic year 2025-2026 through the State Level EAPCET. They shall apply to B.Tech. Lateral Entry admitted students through the State Level ECET in 2026-2027 at the second-year level (for Second, Third and Fourth years of study). **UGC/AICTE** specified definitions/descriptions are adopted appropriately for various terms and abbreviations used in these regulations.

1. SYSTEM

The system is a flexible Choice Based Credit System (CBCS) permitting students

- To choose electives from a wide range of courses offered by the Institute or on-line platforms like SWAYAM online portal.
- To undergo additional courses over and above the requirements of the regular program.
- To choose Multi-disciplinary, Inter-disciplinary, Transdisciplinary, and IKS courses.

2. PROGRAMMES OF STUDY

The Sri Venkateshwara University College of Engineering, Tirupati is offering the following Regular B.Tech. programmes of study at present.

S.No.	B. Tech. programme Specialization	Code	Code No.
1.	Chemical Engineering	CH	O1
2.	Civil Engineering	CE	02
3.	Electrical and Electronics Engineering	EE	03
4.	Electronics and Communication Engineering	EC	04
5.	Mechanical Engineering	ME	05
6.	Computer Science & Engineering	CS	06

In addition, meritorious students will have the option to choose either B.Tech. with Honors or B.Tech. with a Minor, with extra courses and credits, over and above those prescribed for B.Tech. (Regular). Different Major-Minor combinations are offered by the Institute subject to certain conditions specified in these regulations.

3. DURATION

- 3.1 Minimum duration of the any B.Tech. Programme, is **Eight (08) Semesters** (Semester pattern) consisting of **Four (04) Academic Years**, each academic year having **Two Semesters**.
- 3.2 The student shall **not take more than Eight (08) academic years** to fulfil all the academic requirements for the award of B.Tech. degree **from the date of commencement of first year first semester**, failing which the student shall forfeit the seat in B.Tech. Degree programme.
- 3.3 Each semester shall consist of 14 to 18 weeks, with a minimum of 90 instructional days per Semester and 04 weeks for Examinations. However, Number of instruction days may be reduced to 72, when necessary, with an increased number of instruction hours per week per course.

4. INSTRUCTION

4.1 Course Classification & Instructions:

All courses offered for the Undergraduate (UG) Programme (B. Tech. Degree Programme) are broadly classified as follows. The University has followed in general, the guidelines issued by AICTE/UGC.

- 4.1.1 **Student Induction Program (SIP) is mandatory** for all first year UG students in I Semester and shall be conducted as per AICTE / UGC guidelines.
- 4.1.2 **Basic Courses** in Sciences, Engineering, Human Sciences to form the conceptual base.
- 4.1.3 **Professional Core Courses** are intended for knowledge development and enhancement in the chosen discipline of study.
- 4.1.4 **Non-credit Mandatory Courses (Audit Courses)** are intended to provide awareness of the contemporary societal issues, or the opportunity to develop cultural, intellectual and civic interests.
- 4.1.5 **Elective Courses**, both Professional and Open, intended (a) to provide extended knowledge in the discipline of study, (b) to provide a broadened scope in the same discipline, (c) to enable an exposure to some other disciplines and (d) to enhance students' proficiency/skill. (d) **The total number of open and professional electives is Nine.**
- (i) **Professional electives:** The students have to choose **five or six professional electives** (PE-I to PE-V or PE-VI) from the list of professional electives given in the scheme of the concerned discipline. These Elective courses shall be offered from or after V Semester or but not later than VII Semester.
- (ii) **Open electives:** The students have to choose **open electives** (OE-I, OE-II, OE-III, etc..) from other disciplines or departments. **The student cannot opt for an open elective course offered by his own (parent) department/discipline.** All Open Electives may be studied through MOOCs in the SWAYAM Online Portal.

- 4.1.6 **Skill Oriented Courses** intended to provide a specific knowledge or one specific skill. It is based on the simple principle of 'learning by doing' as practised in real-life situations. Therefore, it differentiates from the conventional theoretical approach, and instead, focuses on the traits of the individual. Every department shall offer at least one skill course in each semester from third semester to seventh semester.
- 4.1.7 **IKS Courses:** The National Education Policy 2020 lays special emphasis on the promotion of Indian Languages, Arts and Culture, and tries to remove this discontinuity in the flow of Indian Knowledge System by integrating IKS into curriculums at all levels of education. These courses are intended to generate a positive attitude, explore, and undertake quality research on IKS, erase all traces of servitude and Be proud of India's heritage and legacy. Every department shall offer two IKS courses one being audited and other credited in the program.
- 4.1.8 **Internships:** Every student has to do (a) One Community Service Project (CSP) internship (2 credits) after Fourth semester to be reflected in V semester and (b) One Summer Industry Internship after VI semester to be reflected in VII semester (2 credits-SII), which are mandatorily and (c) Project Work and full semester Internship of 12 credits in the VIII Semester to acquire the skills required for job and make engineering graduates to connect with the needs of the Society and Industry at large as per the AICTE Internship Policy, Guidelines and Procedures.
- 4.1.9 **NCC/ NSO/ NSS activities: Non-graded (NG) Credits** are core requirements and can be earned through formal academic activity and informal co-curricular or extra-curricular activities. All students shall be mandatorily registered for NCC/NSO/NSS activities.
- 4.1.10 A faculty advisor/mentor shall be assigned after admission in to the College to a group of 10 to15 students from same department to do Internships (Community Service Internship, Summer Industrial Internship etc.) and also to provide counselling/guidance in courses registration/career growth/ placements/ opportunities for higher studies /GATE/ other competitive exams etc.

4.2 Medium of Instruction

The medium of instruction of the entire B. Tech. undergraduate programme (including examinations and project reports) is English only.

4.3 Student Induction Program (SIP)

There shall be mandatory Student Induction Programme for fresher's, with a three-week (i.e., **minimum 15 working days or around 90 -110 hours**) duration after the **commencement of first semester**, i.e. preferably after that no student will join /admit in the Institute and also final Roll Numbers of the students were notified. Physical activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to local Areas, Familiarization to

Department/Branch & Innovations etc., shall be included strictly as per the guidelines issued by the AICTE / UGC.

4.4 MOOCs (Massive Open Online Courses)

Certain prescribed courses (Open electives, A few electives, courses, internships, Virtual Labs, and all or Certain Courses for Minors and/or Honors degree etc.) will have to be pursued on NPTEL – SWAYAM online portal or any recognised Governmental organisations, Research laboratories, Skill Development Centers. This is recommended to encourage students to tap these resources, get exposure from different premier Institutes faculty members, to compete with other students in the country and also to prepare them for self-study and lifelong learning.

- 4.4.1 All OPEN ELECTIVE Courses and courses not offered by the concerned department/Institute but recommended by Scheme/BoS/Head are to be successfully completed on **SWAYAM-NPTEL** online portal of Government of India. It will be reflected as OE-I, OE-II, OE-III, etc., and shall be reflected in Marks Memo / Grade Sheet as per the scheme.
- 4.4.2 Courses offered by the concerned Department as Program Core / Program Elective shall not be opted as an open elective course.
- 4.4.3 A student is free to opt for any course relating to (a) Domain Engineering(b) General Engineering (c) Management and (d) Functional / Technical English, in consultation with his / her Department. It should not be a course offered by the Department.
- 4.4.4 Opted course shall carry **3credits** and of **12** or more weeks of duration. Student has to pursue and acquire a certificate for a MOOC course only from SWAYAM Online Portal of Government of India in order to earn the 3 credits. Attendance will not be monitored for MOOC courses.
- 4.4.5 A student is free to enrol and complete online courses starting from **I semester to VII semester** of his / her B.Tech. Degree Programme.
- 4.4.6 Students are encouraged to do **one or two courses per Semester** in SWAYAM Portal, and complete online courses required for Honors/Minors/Regular from B.Tech. I semester onwards and they will be reflected in Transcripts/Marks Statement allowing credit transfer.
- 4.4.7 **Online courses on SWAYAM Portal only** shall be considered **for credit transfer**. The student will be awarded the credits given in curriculum only by submission of the certificate. In case, if student does not pass courses registered through SWAYAM Portal, the same or alternative equivalent course may be registered again through SWAYAM-NPTEL Portal and passed in the next semester in consultation with the **SPOC, SWAYAM-NPTEL** of our Institute and with the recommendation of Chairperson BoS/ HOD.
- 4.4.8 Head of the Department concerned shall make arrangement for collection and consolidation of performance certificates in online courses, in coordination/consultation with SPOC, SWAYAM-NPTEL Local Chapter for onward transmission to the Controller of Examinations (Both hard and soft copies

of certificates) to take steps to include these courses in Marks Memo/ Grade Sheet of concerned semester

4.5 Mandatory Summer Internships:

4.5.1 In the B.Tech. Degree Programme, Students shall undergo **two mandatory summer internships** (One Community Service Project (CSP) and one Summer Industry Internship) for a duration of **six to eight (6-8) weeks** during the summer vacations by completing **45 – 60** hours of work with at least **75%** attendance. There shall be mandatory full internship along with the project work parallelly in the final semester of the Programme.

4.5.2 In the final semester, the student should mandatorily undergo an internship and parallelly he/she should ***work on a project with well-defined objectives***. A student shall also be permitted to submit project report on the work carried out during the internship. At the end of the semester the candidate shall submit an internship report and its completion certificate in the department. Internship programs offered by AICTE/APSSDC/NSDC/SWAYAM PLUS /Any State or Central Government organizations involving Industry experts and approved by the concerned BoS/Head/Head of the Institution are also considered equivalent to full semester Internship provided it involves 90 – 120 hours of work. The project work shall be either in the discipline of his own or inter-disciplinary. However, the Internship work area can be in his own discipline or inter-disciplinary or other discipline also.

4.5.3 Completion of internships is mandatory, if any student fails to complete an internship, he/she will not be eligible for the award of degree. In such cases, the student shall repeat and complete the internship.

5. :COURSE CODE

Each course is identified by three different codes: one alphanumeric Code, one alphabetic code, and another university code for university examination purposes.

The alphanumeric code is of the form **XXdyzzA**

XX - denotes the alphabetic code of the department to which the course is being offered.

d - denotes the numeric code of the department (1 for Chemical, 2 for Civil, 3 for EEE, 4 for ECE, 5 for Mechanical and 6 for CSE)

y – denotes for the semester in which is offered

zz – denotes the serial number of the course in the corresponding semester

A – denotes the type of course i.e., C for theory and L for Laboratory/Practical course.

The alphabetical code is of the form **DD–EE**

DD denotes the department handling that course.

EE denotes the category to which the course belongs

CE: Civil Engineering	CY: Chemistry
CH: Chemical Engineering	EN: English
CS: Computer Science & Engineering	MA: Mathematics
EC: Electronics and Communication Engineering	PY: Physics
EE: Electrical and Electronics Engineering	MG: Management
ME: Mechanical Engineering	PE: Professional Elective Courses
PC: Professional Core Courses	OE: Open Elective Courses
HS: Humanities and Social Sciences	BS: Basic Science Courses
MC: Non-Credit Mandatory Courses	SC: Skill-Oriented Courses
ES: Engineering Science Courses	SA: Skill Advanced Courses
SI: Summer Industry Internship	PW: Project Work
CI: Community Service Internship	UG: Undergraduate

6. Scheme of Instruction & Syllabus

- 6.1. A Board of Studies (Pass) of each department, constituted by the University, with experts from academic departments, industry, society, alumni and students with both internal and external members shall formulate the Scheme of Instruction and Evaluation of a programme and the detailed syllabus content of the courses.
- 6.2. All the Boards of Studies shall together formulate the scheme of instruction and examinations and detailed syllabi for all the courses of the First and Second Semesters.

7. Attendance Requirement

- 7.1 A student shall be detained in a Semester if he/she fails to satisfy the attendance requirements given below:
- A student shall attend a minimum of 40 % of the hours of instruction taken by the teacher, in each Theory course or Laboratory (Practical) course.
 - A student shall be eligible to appear for the Semester End Examinations, if the student acquires a minimum of 75% of attendance in aggregate of all the courses for that semester– Theory + Tutorial + Practical Courses (excluding the attendance in non-credit mandatory (audit) courses and Skill Oriented Courses). Two periods of attendance for each theory course shall be considered, if the student appears for the mid-term examination of that course.
 - Shortage of attendance **in aggregate up to 10% (65% and above, and below 75%)** in each semester may be condoned by the **College Academic Committee**, headed by the Principal on genuine and valid grounds i.e., due to ill health of a student, based on the student's representation with supporting evidence. A **stipulated fee** shall be payable towards condonation of shortage of attendance in the SVUCE Examination fee account. Students availing condonation on medical grounds shall produce a medical certificate issued by the competent authority.

- 7.2 A student who fails to satisfy the attendance requirements specified in clause 7.1 (i, ii, iii) shall be **detained** and will have to repeat that Semester in the subsequent academic years with the written permission of the Principal subject to the clause 7.1.
- 7.3 Shortage of attendance **below 65% in aggregate** shall in **no case** be condoned.
- 7.4 A student shall not be permitted to study any semester **more than twice** during the entire Programme of study.
- 7.5 A student fulfilling the attendance requirement in any given semester is eligible for readmission into the same semester. However, A student who satisfies the attendance requirements specified in either of the clauses 7.1 (ii) or 7.1 (iii) in any semester may be permitted to repeat that semester cancelling the previous attendance and sessional marks of that semester with the written permission of the Principal.

8. Credits Requirements

The following academic requirements must be satisfied, in addition to the attendance requirements mentioned in clause 7. The performance of the candidate in each semester shall be evaluated course-wise, with a maximum of 100 marks per course (theory / practical), based on Internal Evaluation and Semester End Examination.

- 8.1 Assigning of Credits: This is the unit by which the course work is measured. Courses are assigned a number of credit hours based on the amount of work required as represented in the course's learning outcomes and student achievements. For each credit hour student should be enrolled in, and expect one hour of classroom or direct faculty instruction and a minimum of two hours of out-of-class work for other academic activities such as practical, internships, research or other academic work leading to the award of academic credit hours.

1 Hr. Lecture (L) per week - 1 credit

1 Hr. Tutorial (T) per week - 1 credit

1 Hr. Practical (P) per week - 0.5 credits

2 Hours Practical (Lab)/week - 1 credit

2 Hours Internships or Research/week - 1 credit

- 8.2 Credit requirement for the Award of B.Tech. Degree: Successful performance in

B.Tech. (Regular)	160 to 165 Credits (Exact number of Credits discipline-specific and given in the Scheme of instructions of that discipline)
B.Tech. (Lateral Entry)	120 to 125 Credits (Exact number of Credits discipline-specific and given in the Scheme of instructions II, III & IV years only of that discipline)

B.Tech. (Honors)	Not less than 18 additional credits (Over and above the regular) in the same discipline
B.Tech. (Major-Minor)	Not less than 18 additional credits (Over and above the regular) in the chosen Minor discipline

- 8.3 The four-year B.Tech. The degree programme consists of 160 to 165 Credits (Exact number of credits are discipline discipline-specific and given in the scheme of the concerned discipline) and the student has to register for all 160 to 165 credits and earn all 160 to 165 credits for the award of B.Tech. Degree. There is NO exemption of credits in any case.
- 8.4 Semester Scheme: Each Semester shall have 'Continuous Internal Evaluation (CIE)' and 'Semester End Examination (SEE)'. Choice Based Credit System (CBCS) and Credit Based Semester System (CBSS) are taken as 'references' for the present set of Regulations.
- 8.5 A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to each course, if he/she secures not less than 40% of Marks (24 out of 60 marks) in the Semester End Examination and also in the aggregate of CIE and SEE together (40 out of 100 marks).
- 8.6 A student is eligible to appear for the Semester End Examination in any course, if absent from it or failed (failing to secure 'P' Grade or above), may reappear for that course at the supplementary examination as and when conducted. In such cases, his Internal Marks assessed earlier for that course will be carried over, and added to the marks secured in the supplementary examination, for the purpose of evaluating student performance in that course.
- 8.7 When a student is detained due to shortage of attendance in any semester, no Grade allotment will be made for that semester. However, he is eligible for re-registration in the subsequent semester(s), as and when next offered, with the academic regulations of the batch into which he is re-registered, by paying the prescribed tuition fees per that semester. The student shall have to secure afresh set of internal marks and Semester End Examination marks for performance evaluation in that semester courses SGPA/CGPA calculations.
- 8.8 The B.Tech. Degree with Honors/ Minor shall be issued by the University to the students who fulfil all the academic eligibility requirements for the B. Tech Degree programme and additional requirements for Honors/Minor programme. The objective is to provide additional learning opportunities to academically motivated students.

9. Examination – Evaluation - Distribution and Weightage of Marks:

The performance of a student in every course will be evaluated for 100 marks each, with 40 marks allotted for CIE (Continuous Internal Evaluation) and 60 marks for SEE (Semester End-Examination). The question papers are to be set by following Bloom's taxonomy L1—L6 both in internal and external examinations.

- 9.1 **Assessment:** The performance of a student in each semester shall be evaluated course wise with a maximum of 100 marks for theory course as well as for practical courses. In general, the distribution shall be 40 marks for Continuous Internal Evaluation and 60 marks for the End Semester Examination. A student has to secure not less than 40% of marks in the semester end examination and minimum 40% of marks in the sum total of internal and semester end examination marks to earn the credits allotted to that course.
- 9.2 **Continuous Internal Evaluation (CIE)** of a Theory Course is done through the mid-term examinations for 30 marks, and assignments for 10 marks during a semester as follows:
- There shall be two mid-term examinations during the semester conducted for 30 marks consisting of two-parts with a total duration of 2 hours (120 Minutes): Part – A for 5 marks and Part – B for 25 marks. The question paper shall be set by course teacher following Bloom's Taxonomy.
 - Part A is an objective paper or a quiz and shall consist of 5 multiple-choice questions, fill-in the blanks, match the following, etc., for a total of 5 marks.
 - Part B is a descriptive/subjective paper and shall contain 3 questions in either-or pattern. The student needs to answer all three questions.
 - The first midterm examination shall be conducted in the middle of the semester, covering the first two units and 50% of the third unit. Part A should consist of two objective questions, each from Units I&II and one from Unit III. In Part B, the first two questions from Units I and II carry 10 marks each, and third question from Unit III for 5 marks. The second midterm examination shall be conducted for remaining 50% of third unit and IV & V units in total. Part A should consist of one objective question from Unit III, and two each from Units IV&V. In Part B, the first question from Unit III for 5 marks and remaining two questions from Units IV and V for 10 marks each.
 - It is mandatory for a student to attend both the sessional tests in each theory course. The weighted average of the marks secured in two tests is awarded as sessional marks. A weightage of 0.8 shall be assigned for the better of the two tests whereas for the other test it shall be 0.2. If a student is absent for any of the internal tests for whatsoever reason, the marks awarded for that test shall be zero.
 - Two assignments are evaluated for 10 marks each. The first assignment should be submitted before the conduct of the first mid-term examination, and the second assignment should be submitted before the conduct of the second mid-term examination. The assignments shall be given by the course teacher. The average of the two assignments shall be taken as the final marks.
- 9.3 **The Semester End Examination (SEE)** for theory Courses will be conducted by the Controller of Examinations for 60 marks, consisting of two parts: **Part A** of 10 marks and **Part B** of 50 marks.

- i). Part A is a compulsory question which consists of ten sub-questions from all units, two from each unit. carrying one mark each.
- ii). Part B consists of ten questions (numbered from 2 to 11) with two questions from each unit, with “either “or” choice. This means that the student should answer five questions from either of the two questions from each unit. Each question of the unit carries a maximum of 10 marks.
- iii). For each theory course, the question paper shall be set by an external question paper setter.
- iv). The semester-end examination is 3 hours, carrying 60 marks. It shall be conducted after the last working day of the semester, covering the entire syllabus prescribed for that course.
- v). However, the Chairperson, BoS shall accord an exception in question paper format, if necessary. For example: For the Engineering Graphics and Design course, the pattern of evaluation for CIE and SEE is the same as that of a theory Course.
- vi). The valuation of Semester End Examination answer scripts shall be arranged by the Controller of Examination as per the University procedures in vogue.

9.4 **Continuous Internal Evaluation (CIE)** of a practical course for 40 marks is assessed as follows:

- i) 10 marks for day-to-day work (a write-up on day-to-day experiment in the laboratory in terms of aim, components/ procedure, expected outcome).
- ii) Internal practical examination conducted by the laboratory teacher concerned shall be evaluated for 10 marks.
- iii) 10 marks for viva-voce (or) tutorial (or) case study (or) application (or) poster presentation of the course concerned.
- iv) The remaining 10 marks are for Laboratory Record / Project, which consists of the Design(or) Software / Hardware Model Presentation (or) App Development (or) Prototype Presentation submission which shall be evaluated after completion of the laboratory course and before semester-end practical examination.

9.5 **The Semester End Examination (SEE)** for Practical courses of three (03) hours duration carrying 60 marks shall be conducted by two examiners: i) one external examiner and ii) one internal examiner appointed by the Principal. The Principal shall appoint an External Examiner from among the panel of examiners recommended by the Chairperson, BoS concerned. The Principal shall appoint the internal examiner nominated by the Head of the Department concerned.

9.6 The Student, in each practical course, shall have to earn 40% of marks (i.e. 24 marks out of 60 marks) in SEE and to pass overall 40% of marks (i.e. 40 marks out of 100 marks) in both CIE and SEE marks put together.

NOTE: For Workshops like IT Workshop, 100 marks are for CIE and there is no SEE.

- 9.7 **Revaluation and Grade Improvement:** There is no provision for improving the grade. The students can apply for revaluation of answer scripts by remitting the requisite fee. The final mark awarded will be the best of the marks obtained in two valuations. If the difference in marks obtained in revaluation and the original valuation is more than 15% of the maximum marks, it will be sent for third valuation. The final mark will then be the average of the closer of the marks in two valuations obtained and the third valuation. If this average marks is less than the original mark, the original marks will be retained. If 15% of the maximum marks or more marks improvement is there in the revaluation, **the fee collected will be refunded.**
- 9.8 **Mandatory Non-Credit Audit Courses:** Courses like Environmental Science, Constitution of India etc., shall be included in the curriculum as non-credit mandatory courses (**Audit Courses**). To pass in Audit Course, a student has to secure at least 40 Marks out of 100 Marks allotted in the continuous internal evaluation (CIE) of that Audit Course. However, Letter grade will be indicated in Marks Memorandum/ Grade Sheet with Zero Credits.
- 9.9 Evaluation of the summer internships shall be through the Departmental Committee constituted by the Head of the Department. A student will be required to submit an internship report to the concerned department and appear for an oral presentation before the departmental committee. The **weightages shall be: Project Log-20%, Project Implementation - 30%, Project Report-25%, and Oral Presentation- 25%.**
- 9.10 A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to **Community Service Project (CSP)** and **Summer Industrial Internship (SII)** which are mandatory internships, if the student secures not less than 40% marks (i.e. **40 Marks out of 100 Marks** allotted). The student is deemed to have failed, if he /she
- does not submit a Project Report on Community Service Project / Summer Industrial Internship, or does not make an Oral Presentation of the same before the evaluation committee as per the schedule, or
 - secures less than 40% marks in Community Service Project / Summer Industrial Internship evaluations.
 - A student may reappear once for each of the above evaluations, when they are scheduled again; if the student fails in such 'one reappearance' evaluation also, the student has to reappear for the same in the next subsequent semester, as and when it is scheduled.
- 9.11 **Evaluation of Project Work and Full Semester Internship:**
- The Project Work & Full semester Internship work shall be carried out in VIII semester under the Supervision of a Teacher in the concerned Department.
 - Normally, the Project Work shall be carried out at Sri Venkateshwara University College of Engineering (SVUCE). However, it can also be carried out in any of the recognized Educational Institutions/ National Laboratories/ Research Institutions/ Industrial Organizations/ Service Organizations/ Government Organizations with the prior permission from the guide and Head

of the Department concerned. The dissertation work shall be evaluated for a total of **12** credits.

- (iii) A student shall be instructed to meet the Supervisor regularly and to attend the review committee meetings for evaluating the progress of Project Work / Thesis/ Dissertation.
- (iv) The deadline for final submission of Project Report / internship report is prior to two weeks (i.e 15 calendar days) from the last working day of the VIII semester. A student shall submit his / her Project work duly certified by the Supervisor and HoD. If a candidate fails to submit the Project Report / Thesis on or before the specified deadline date, he / she deemed to have not completed the Project Report / Thesis and shall re-register in a subsequent VIII semester.
- (v) The Principal shall appoint the external examiner, from among the panel of examiners recommended by the Chairperson, BoS concerned and shall appoint the two internal examiners nominated by the Head of the Department concerned.
- (vi) The evaluation of the Project Report / Thesis work and the marks allotted by following Rubrics are as indicated in the Table below:

Evaluation	Evaluation Committee	Marks
Continuous Internal Evaluation	Supervisor (Guide)	20
Midterm Review Meeting (An Oral Presentation and viva-voce)	The committee with Head of the Department as Chairperson, Chairperson-BoS (Pass) and Supervisor as members.	30
End Semester Examination (An Oral Presentation and viva-voce)	The committee comprising of one External Examiner, Two Internal Examiners wherein the External Examiner shall be the Chairperson of the Committee.	50

- 9.12 The Head of the Department in consultation with the External Examiner, shall schedule the **viva-voce Examination** of the Project Work. The evaluation report (Marks Award Statement) should be send to the Principal. In case of unsatisfactory performance, committee may recommend for extension or repeating the work.
- 9.13 Advanced supplementary examinations for courses in the **VII Semester** shall be conducted for regular students, who fail in these courses, **within a month** after the announcement of **VII Semester** results, to save one academic year of time for outgoing students.

10. COURSE PERFORMANCE

- 10.1. In each semester, every student who satisfies the attendance requirements has to register for the Semester End Examination, failing which he/she shall not be allowed to write that Semester End Examination. Any such student who has not registered for the Semester End Examination in a semester shall repeat that End-Semester Examination in the next academic year with the written permission of the Principal.
- 10.2. To pass a course in the programme, a student has to secure a minimum of 40% of maximum marks in the Semester End Examination and a minimum Grade of **P** overall (both Sessional and Semester-End Examination marks put together). A student obtaining Grade **F** shall be considered failed and shall be required to reappear for the Semester End Examination. A student shall not be allowed to reappear for the Semester End Examination in a course which he/she has already passed the course to improve the score.
- 10.3. A student who has failed in a course shall be allowed to reappear for the Semester End Examination as and when it is conducted in the normal course. The Sessional Marks obtained by the student shall be carried over for declaring the results.
- 10.4. Semester End Examination in any course of a particular regulation shall be conducted two times only. Thereafter, the students who failed in that course shall take the Semester End Examination in the equivalent courses of the subsequent regulation, suggested by the Chairperson, BoS concerned.

11. PROMOTION RULES

Student shall be promoted from first year to second year if he fulfils the minimum attendance requirements as specified in Clause 7.

12. CREDIT TRANSFER POLICY

Adoption of MOOCs is mandatory, to enable Blended model of teaching-learning as also envisaged in the NEP 2020. As per University Grants Commission (Credit Framework for Online Learning Courses through SWAYAM), the University allows up to a maximum of 20% of the total courses (exclusive of additional courses for Honors/Minors degree) being offered in a particular programme i.e., maximum of 32 to 33 credits through MOOCs platform.

- i. The University shall offer credit mobility for MOOCs and give the equivalent credit weightage to the students for the credits earned through online learning courses.
- ii. Student registration for the MOOCs shall be only through the respective department of the institution, it is mandatory for the student to share necessary information with the department.
- iii. Credit transfer policy is applicable for all the courses including Minors, Honors, Professional Core electives, Open electives, and any other courses specified in the Scheme.
- iv. The concerned department shall identify the courses permitted for credit transfer.

- v. The institution shall designate a faculty member as a Mentor for each course to guide the students from registration till completion of that course.
- vi. The university shall ensure no overlap of MOOC exams with that of the university examination schedule. In case of delay in results, the university will re-issue the marks sheet for such students.
- vii. Student pursuing courses under MOOCs shall acquire the required credits only after successful completion of the course and submitting a certificate issued by the competent authority along with the percentage of marks and grades.
- viii. The universities shall resolve any issues that may arise in the implementation of this policy from time to time and shall review its credit transfer policy in the light of periodic changes brought by UGC, SWAYAM, NPTEL and state government.

Note: Students shall be permitted to register for MOOCs offered through online platforms approved by the University from time to time, starting from 1st semester.

13. STUDENT PERFORMANCE - GRADING AND GRADE POINTS

13.1 Letter Grade – Grade Point

After each subject is evaluated for 100 marks, the marks obtained in each subject will be converted to a corresponding letter grade as given below, depending on the range in which the marks obtained by the student fall. Letter Grade is an index of the performance of students in a said course. Grade Point is a numerical weight allotted to each letter grade on a **10-pointscale as per the Table given below.**

Letter Grade	Range of Marks (Internal + End-Sem)	Grade Point
O (Outstanding)	91 - 100	10
A+ (Excellent)	81 – 90	9
A (Very Good)	71 – 80	8
B+ (Good)	61 - 70	7
B (Above Average)	51 - 60	6
C (Average)	40 - 50	5
F (Fail)	<40	0
Ab (Absent)	-	0

A student who has obtained **Grade F(Fail)** or **Ab (Absent)** in any course shall be considered “**failed**” in that course and he / she shall have to reappear as a ‘supplementary student’ in the in the Semester End Examination as and when it is conducted in the normal course of time. In such cases, internal marks in those courses will remain the same as those obtained earlier.

In the Grade sheet, against Non-credit Mandatory Course (an audit course), **Audit Pass (P)** (≥ 40 marks) or **Audit Fail (F)** (less than 40 marks) will be indicated. No letter grade /marks shall be allotted for non-credit (zero credit) audit courses. This will in no way affect the CGPA of the Student. A letter grade does not indicate any specific percentage of marks secured by the student, but it indicates only the range of percentage of marks. A student earns grade point (G) in each course, on the basis of the letter grade secured in that course. The corresponding 'credit points' (CP) are computed by multiplying the grade point with credits for that particular course.

$$\text{Credit points (CP)} = \text{Grade point (G)} \times \text{Credits (C)}.$$

13.2 Grade Point Average

Semester Grade Point Average (SGPA): It is a measure of student's performance in a semester.

Cumulative Grade Point Average (CGPA): It is a measure of overall performance of a student over all semesters.

Computation of Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA):

- (i) The Semester Grade Point Average (SGPA) is the ratio of sum of the product of the number of credits with the grade points scored by a student in all the courses taken by a student and the sum of the number of credits of all the courses undergone by a student in that semester.

$$SGPA (S_i) = \sum_{i=1}^N (C_i \times G_i) / \sum_{i=1}^N C_i$$

where, C_i is the number of credits of the i^{th} Course and G_i is the grade point scored by the student in the i^{th} course and N is the number of courses in that semester.

- (ii) The Cumulative Grade Point Average (CGPA) will be computed in the same manner considering all the courses undergone by a student over all the semesters of a program, i.e.

$$CGPA = \sum_{i=1}^M (C_i \times S_i) / \sum_{i=1}^M C_i$$

where 'Si' is the SGPA of the i^{th} semester and C_i is the total number of credits in that semester and M is the number of semesters.

- (iii) Both SGPA and CGPA shall be rounded-off to 2-decimal points and reported in the transcripts.
- (iv) While computing the SGPA/CGPA, the subjects in which the student is awarded Zero grade points will also be included.

- (v) As per AICTE regulations, conversion of CGPA into equivalent percentage is

Equivalent Percentage = (CGPA – 0.5) x 10. It will also be mentioned in the transcripts.

13.3 Award of Class:

After a student has satisfied the requirements prescribed for the completion of the program and is eligible for the award of B.Tech degree, he/she shall be placed in one of the following:

Class Awarded	CGPA Secured
First Class with Distinction	≥ 7.50
First Class	$\geq 6.50 - < 7.50$
Second Class	$\geq 5.50 - < 6.50$
Pass Class	$\geq 5.00 - < 5.50$

13.4 Provisional Certificate & Consolidated Marks Memo

Provisional Certificate (PC) & Consolidated Marks Memo (CMM) shall be given separately in A4 size format. On the rare side of CMM Letter Grade – Grade Point table and conversion formula for CGPA /SGPA to percentage should be printed invariably.

14. NCC / NSO / NSS REQUIREMENTS

- 14.1 All students admitted into the B.Tech. programme in SVUCE are required to choose in any one of the three-fold programmes i.e. National Cadet Corps (NCC) or National Sports Organization (NSO) or National Service Scheme (NSS), as an extra-curricular programme, and complete the requirements within the **first four** (I – IV) registered **semesters** (first and second years) of their study.
- 14.2 NSO programme will be restricted to only those students, who show marked proficiency in sports. The NCC / NSO/NSS programme shall be optional for the students other than those in the first and second year. The foreign nationals are exempted from these requirements.
- 14.3 Students' Welfare Committee shall complete the enrollment of students under the particular program /scheme and forward the same to the Office of the Principal for completing the personal files of the students. The students enrolled in a scheme, shall not ordinarily be allowed to change afterwards.
- 14.4 Every student will be required to earn two (02) **Non-Graded Credits** from one of these activities, by completing **60** hours of work during second and third semesters preferably. The faculty coordinators of NCC / NSO / NSS will decide and announce the policies on earning Non-Graded Credits in these activities from time to time. A student must complete the **60** hours of activities in one of these three options by the end of the fourth registered semester or the summer

after the fourth semester, failing which he/ she would not be allowed to register for the fifth semester to study.

- 14.5 The minimum attendance requirement is 75%. Grade shall be awarded as Satisfactory (S) or Unsatisfactory (U) in the mark sheet on the basis of **attendance, behaviour, participation and performance**. If a student gets an unsatisfactory Grade, he/she shall repeat the above activity in the subsequent years, in order to complete the degree requirements.
- 14.6 If a student falls short of the attendance requirements he / she should make up the deficiency as noted below:
If the absence is on valid grounds, the deficiency will be made up in the extra NCC / NSO / NSS programmes to be offered in the same year.
If the absence is unauthorized, the deficiency will have to be made up during the following year. The deficiency in NCC will have to be made up in NSO / NSS programmes at the rate of four times the deficiency, i.e., each NCC hour missed will be made up by four NSO / NSS hours.
The deficiency in NSO / NSS classes will have to be made up at the rate of two hours for each hour missed.
- 14.7 Preferably 3rd Saturday of a month may be devoted for NSS activities to the 2nd Year B.Tech. students from the day class work commences for B. Tech. III Semester.

15. GAP YEAR

Gap year(s) shall be availed by the outstanding student himself/herself who wants to pursue entrepreneurship by taking a break of one year at any time after completing 2nd year of study. An evaluation committee at College level shall be constituted to evaluate the proposal submitted by the student and the committee shall decide on permitting the student for availing the Gap Year. This period shall not be counted for the maximum time for graduation. Students shall be permitted to re-join the succeeding year from the date of commencement of class work and shall be under the academic regulations in force at that time.

16. RANKS & AWARDS

- 16.1 Ranks shall be awarded in each branch of study on the basis of Cumulative Grade Point Average (CGPA) for the top three students.
- 16.2 The students who have become eligible for the award of the degree by passing regularly all the eight Semesters without backlogs shall only be considered for the award of ranks.
- 16.3 Award of prizes, scholarships and other honours shall be according to the rank secured by the student and in conformity with the desire of the Donor.

17 MULTIPLE ENTRY / EXIT OPTION

- (a) **Exit Policy:** The students can choose to exit the four-year programme at the end of first/second/third year.
- i. **UG Certificate in (Field of study/discipline)** - Programme duration: First year (first two semesters) of the undergraduate programme, not less than 40 credits followed by an additional exit 6 to 8-credit bridge course(s) specified in the

scheme or 6-credit job-specific internship/ apprenticeship lasting two months that would help the candidates acquire job-ready competencies required to enter the workforce.

- ii. **UG Diploma (in Field of study/discipline)** - Programme duration: First two years (first four semesters) of the undergraduate programme, not less than 80 credits followed by an additional exit 6 to 8 credit bridge course(s) specified in the scheme or 6-credit job-specific internship/ apprenticeship lasting two months that would help the candidates acquire job-ready competencies required to enter the workforce.
- iii. **Bachelor of Vocational (in Field of study/discipline)** : First three years (first six semesters) of the undergraduate programme, not less than 120 credits.

(b) Entry Policy: Modalities on multiple entry by the student into the B.Tech. programme will be provided in due course of time in accordance with the University/State Government Norms.

Note: The Universities shall resolve any issues that may arise in the implementation of Multiple Entry and Exit policies from time to time and shall review the policies in the light of periodic changes brought by UGC, AICTE and State government.

18. GRIEVANCE REDRESSAL COMMITTEE (GRC)

The Principal shall constitute a Grievance Redressal Committee at College Level and at department levels also as per the AICTE/UGC guidelines. On receipt of grievance / complaint, the institution will refer the complaint to the appropriate **Committee** to address the **grievance / complaint of a student / parent within 15 days of receipt of complaint**. Grievances received from the students will be placed before the committee for its consideration. The committee shall submit its redressal recommendations to the Principal for appropriate action on the said grievance.

19. TRANSITORY REGULATIONS

Discontinued or detained candidates or candidates who are permitted to avail Gap Year are eligible for re-admission as and when next offered.

(A) For students detained due to shortage of attendance:

1. A student who has been detained in any semester of I, II, III and IV years of one regulations (say R20 regulations) for want of attendance, shall be permitted to join the corresponding semester of current regulations (Say R25 Regulations) and is required to complete the study of B.Tech. within the stipulated period of eight academic years from the date of first admission in the I Year.
2. The R25 Academic Regulations under which a student has been readmitted shall apply to that student from that semester. See rule (B) for further Transitory Regulations.

(B) For readmitted students in R25 Regulations:

1. A student who has failed in any subject under any regulation has to pass those subjects under the same regulations.
2. The R25 Academic Regulations under which a student has been readmitted shall apply to that student from that semester.
3. The maximum credits that a student acquires for the award of a degree shall be the sum of the total number of credits secured in all the regulations of his/her study, including R25 Regulations. The maximum credits that a student acquired

shall not be less than the prescribed credits for award of degree under the regulations in which he/she first admitted. There is no exemption from credits in any case.

4. If a student is readmitted to R25 Regulations and has any subject with 80% of the syllabus common with his/her previous regulations, that particular subject in R20 Regulations will be substituted by another subject to be suggested by a committee comprising of Principal, Dean, Faculty of Engineering and the concerned board of studies.

Note: In case of any unforeseen issues not covered by the above transitory regulations, the decision of the University will be final.

20. GENERAL INSTRUCTIONS AND AMENDMENT TO REGULATIONS

- I. The academic regulations should be read as a whole for any interpretation.
- II. Malpractices, rules-nature and punishments are issued and implemented by the Controller of Examinations.
- III. Where the words “he”, “him”, “his” occur in the regulations, they also include “she”, “her”, “hers”, respectively.
- IV. The University may change or amend the academic regulations or syllabi at any time, and the changes or amendments shall be made applicable to all the students on roll with effect from the dates notified by the University.
- V. In the case of any doubt or ambiguity in the interpretation of the above rules and guidelines given, the decision of the Vice-Chancellor / Head of the institution is final.



SRI VENKATESWARA UNIVERSITY
COLLEGE OF ENGINEERING: TIRUPATI
B.Tech. with Honors Programme
Additional Regulations for B.Tech. with Honors Programme

- H1. Students of a Department/Discipline are eligible to opt for B.Tech. (Honors) Program offered by the same Department/Discipline, to be completed within the stipulated period of 4 years. Honors must be completed simultaneously with major degree program. A student cannot earn Honors after he/she has already earned bachelor's degree.
- H2. In addition to fulfilling all the requisites of a Regular B.Tech. Degree Programme, a student shall earn 18 additional credits to be eligible for the award of B.Tech. (Honors) degree. This is in addition to the credits essential for obtaining the Under-Graduate Degree in Major Discipline.
- H3. Students can select additional and advanced courses from the same discipline in which they are pursuing the degree and get an Honors degree. A Student can select at least one course per semester from the list of Honors courses of a branch in which they are pursuing the degree.
- H4. A student shall be permitted to register for the B.Tech. with Honors program at the beginning of IV semester. The maximum number of courses a student can register for in an Honors program in a semester is two (three if a laboratory course is included in the course structure). Students who have earned all the credits with a minimum of 7.50 SGPA without any backlog at the end of every semester are eligible for the award of an Honors degree. The Honors registration of any student is treated as inactive if the student fails to secure an SGPA of 7.50 without backlogs in any semester. However, the credits earned in additional courses will be treated as extra credits. Such students will receive a grade sheet mentioning the additional courses completed by them".
- H5. The 18 additional credits shall be acquired by either registering courses in the respective host department in the college or through SWAYAM - NPTEL (MOOCs) platform or part in the host department and remaining through SWAYAM - NPTEL (MOOCs) platform. All the 18 credits be discipline-specific, each with 2 or 3 or 4 credits. Total credits of all the SWAYAM - NPTEL courses and courses offered by the host department must be equal to or more than the 18 credits. It is the responsibility of the student to acquire/ complete the prerequisite before taking the respective course. If a course comes with a lab component, that component has to be cleared separately. A student shall be permitted to choose only those courses that he/she has not studied in any form during the Programme. The minimum duration of SWAYAM online courses should be 8/12 weeks conducted in the portal of the Government of India or as recommended by the Board of Studies (BoS). Attendance will not be monitored for MOOC courses. A student has to acquire a certificate from the SWAYAM online portal of the Government of India with grading or marks to earn the credits.

A student after registering for an Honors program can withdraw at any time. On withdrawal, a student will be awarded only a B.Tech. in the concerned branch if he fulfills all academic requirements of that branch specified in the scheme. A student who chooses an Honors program is not eligible to choose a Minors program and vice-versa. A student can graduate with Honors if he/she fulfils the requirements of regular B.Tech. program and also the requirements of the Honors program”.

H6. If a student drops or is terminated from the Honors programme, the additional credits so far earned cannot be converted into free or core electives; they will remain extra. These additional courses will find mention in the transcript (but not in the degree certificate). In such cases, the student may choose between the actual grade or “pass (P)” grade and also choose to omit the mention of the course as for the following, as per the option given by the student.

(i) All the courses done under the dropped Honors will be shown in the transcript.

(ii) None of the courses done under the dropped Honors will be shown in the transcript.

H7. In case a student fails to meet the required minimum of 7.50 SGPA in every Semester for Degree with Honors at any point of time after registration, he/she will be dropped from the list of students eligible for Degree with Honors and they will receive regular B.Tech. degree only. However, such students will receive a separate grade sheet mentioning the additional courses completed by them.



**SRI VENKATESWARA UNIVERSITY
COLLEGE OF ENGINEERING: TIRUPATI
B.Tech (Major-Minor) Programme**

Additional Regulations for B.Tech (Major-Minor) Programme

- MM1. Students who are desirous of pursuing their special interest areas other than the chosen discipline (say discipline A) of Engineering may opt for additional courses/credits in another specified discipline (say discipline B) from among the combinations offered by the Institute or a department of that Institute. Such a program is referred to as B.Tech. (Major) in discipline A and Minor in discipline B. For example, If Mechanical Engineering student selects subjects from Electronics Engineering under this scheme; he/she will get Major degree of Mechanical Engineering with minor degree of Electronics Engineering.
- MM2. Student from **ANY** department is **eligible** to apply for Minor from **ANY other Department/domain**. Combinations will be decided, based on the compatibility, relevance, and the trend in technology, by the Boards of Studies (BoS) of the participating Disciplines of Engineering. The list of combinations may alter from time to time.
- MM3. A student shall earn additional 18 credits in the specified area (discipline B) to be eligible for the award of B. Tech. degree with Minor. This is in addition to the credits essential for obtaining the Under Graduate Degree in Major Discipline (discipline A).
- MM4. A student shall be permitted to register for the B.Tech.(Major – Minor) program at the beginning of IV semester. Prior registration for enrolment into the minor program is mandatory before the commencement of the IV semester. The maximum number of courses a student can register for a minor program in a semester is two (three if a laboratory course is included in the course structure). Students who have earned all the credits with a minimum of 7.50 SGPA without any backlogs at the end of every semester are eligible for the award of a minor program. The minor's registration of any student is treated as inactive if the student fails to secure an SGPA of 7.50 without backlogs in any semester. However, the credits earned in additional courses will be treated as extra credits. Such students will receive a grade sheet mentioning the additional courses completed by them.
- MM5. The 18 additional credits shall be acquired by either registering courses in the respective minor program offered by the Institute or the host department in the college or through SWAYAM platform or part in the institute/host department and remaining through SWAYAM platform. A student after registering for a minor program can withdraw at any time. On withdrawal, a student will be awarded only a B.Tech. in the concerned branch if he fulfills all academic requirements pertaining to that branch. A student can choose only one minor program along with his/her basic engineering degree. A student who chooses an Honors program is not eligible to choose a Minor program and vice-versa. A student can graduate

with a Minor if he/she fulfills the requirements of regular B.Tech. program and the requirements of the Minor program.

Alternately

The student shall register for the NPTEL Domain certification program and submit the certificate issued by the NPTEL after completion. The total number of credits of all these courses must be equal to or more than the 18 or more credits specified in the Minor course structure provided by the NPTEL Domain certification. The student is free to choose any discipline or domain in a discipline (inclusive of non-engineering disciplines) offered by NPTEL domain certification other than his/her basic discipline. Any expenses incurred for the SWAYAM- NPTEL courses are to be met by the students only.

Attendance will not be monitored for the courses studied through MOOCs. A student has to acquire a certificate from the NPTEL/SWAYAM Online Portal with grading or marks to earn credits. Only grades/marks above pass-grade/pass-marks shall be considered for inclusion of grades in minor grade memo.

- MM6. The concerned BoS shall decide on the minimum enrolments for offering Minor program by the department. If a minimum enrolments criterion is not met, then the students may be permitted to register for the equivalent MOOC courses in SWAYAM On-line Portal as approved by the concerned Head of the department.
- MM7. Minor must be completed simultaneously along with a major degree programme. A student cannot earn the Minor after he/she has already earned a regular bachelor's degree.
- MM8. A committee should be formed at the College level to evaluate the grades/marks given by NPTEL/SWAYAM On-line Portal to a student. Upon completion of courses the committee should convert the obtained grades/marks to the maximum marks assigned to that course. The College Level Committee can take a decision on such conversions and may give appropriate grades.
- MM9. If a student drops (or terminated) from the Minor programme, they cannot convert the earned credits into free or core electives; they will remain extra. These additional courses will find mention in the transcript (but not in the degree certificate). In such cases, the student may choose between the actual grade or a "pass (P)" grade and also choose to omit the mention of the course as for the following:
- (i) All the courses done under the dropped Minors will be shown in the transcript.
 - (ii) None of the courses done under the dropped Minor will be shown in the transcript.
- MM10. In case of heavy competition for any combination(s), College Academic Council shall take an appropriate decision on registration, ensuring equitable distribution among the disciplines.



**SRI VENKATESWARA UNIVERSITY
COLLEGE OF ENGINEERING: TIRUPATI**

**ACADEMIC REGULATIONS FOR B.TECH (LATERAL ENTRY SCHEME) FROM THE
ACADEMIC YEAR 2026-2027**

Eligibility for award of B.Tech. Degree (Lateral Entry Scheme, LES)

1. The **B.Tech.(LES)** students after securing admission into the II Year B.Tech. Degree Programme shall pursue a course of study for not less than three academic years and not more than six academic years.
2. The student shall register for all the credits of B.Tech. Regular Program less total number of credits offered in the first year of concerned department/discipline. The student shall register and secure all the credits (120 to 125 credits) with CGPA $\geq$ 5.00 from II year to IV-year of regular B.Tech. Degree programme for the award of B.Tech. degree (LES).
3. The students, who fail to fulfil the requirement for the award of the degree in six academic years from the year of admission, shall forfeit their seat in B.Tech. degree program.
4. The attendance requirements of B. Tech. (Regular) shall be applicable to B.Tech.(LES).
5. **All the other Rules and Regulations as applicable to 4-year B.Tech. (Regular) degree Programme will holds good for B.Tech. (Lateral Entry Scheme) degree Programme.**
