Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
DEEMED TO BE
University
(Estd. u/s 3 of UGC Act, 1956)
Avadi, Chennai

Accredited by NAAC with the HIGHEST GRADE A++

Recognised as CATEGORY-1 DEEMED TO BE UNIVERSITY by the UGC University Grants Commission

ACADEMIC REGULATIONS FOR B.TECH. PROGRAMMES

VTR UGE - 2025

Including the Amendments approved in the 54th Meeting of the Academic Council held on August 29, 2026

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Vel Tech Regulations for Undergraduate Engineering Programme 2025
VTR UGE 2025
[Choice Based Credit System (CBCS)]

25.1 Preamble

The regulations provide the academic framework for all undergraduate engineering degree programmes offered by Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology (Deemed to be University u/s 3 of UGC act, 1956).

25.1.1 Short Title and Commencement

a) These regulations are applicable to all Engineering Degree Undergraduate level programmes offered by Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology (Deemed to be University u/s 3 of UGC act, 1956) with effect from the academic year 2025-26 and they are called **"VTR UGE - 2025"**.

b) The here under are subject to amendments as may be made by the Academic Council of the Institution (Deemed to be University) from time to time, keeping the recommendations of the Board of Studies (BoS) in view. Any or all such amendments shall be effective from such date and to such batches of students including those already undergoing the programme, as may be decided by the Academic Council.

25.1.2 Definition

a) "Commission" means University Grants Commission (UGC).

b) "Council" means All India Council for Technical Education (AICTE).

c) "Institution" means Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology

d) "Programme" means cohesive arrangement of courses, co-curricular and extracurricular activities to accomplish predetermined objectives leading to the award of a degree.

e) "Course" means a unit of teaching, which encompasses various topics, that typically lasts one semester, is led by one or more faculty and has a fixed set of registered students.

f) "Degree" means an academic degree conferred by the University upon those who complete the undergraduate programme successfully.

g) "Regular Students" means students enrolled into the four year programme in the first year.

h) "Lateral Entry Students" means students enrolled into the four year programme in the second year.

i) "Academic Year" means constituting of two consecutive (Summer & Winter) semesters.

j) "Choice Based Credit System" means providing choice for students to select courses from the prescribed course categories (Programme Elective, Open Elective, Industry / Higher Learnig Institute(IHL), Skill Enhancement, Ability Enhancement, Value Added and Mandatory), in the preferred semester complying prerequisites and based on their learning aptitudes.

25.2 Medium of Instructions

The medium of instruction and examination is **English**.

25.3 Eligibility for Admissions

Admission policies, eligibility criteria and procedures for admission shall be determined as per the commission regulations and the appropriate statutory/ regulatory authorities and subject to the approval of Institution's Academic Council/Executive Council.

The Institute reserves the right to modify the admission policy, eligibility criteria, and procedures at any time without prior notice. All such changes shall be applicable to newly admitted students. Admission is subject to timely payment of prescribed fees as indicated in the admission offer. Non-compliance may result in cancellation of admission. If a candidate is later found ineligible or non-compliant with the Institute's requirements, the Vice Chancellor has the authority to revoke the admission and report the matter to the Academic Council/Executive Council.

25.4 Degree Nomenclature and Programmes Offered Details

25.4.1 Degree Nomenclature

The nomenclature and its abbreviation given below shall continue to be used for the Degree Programmes as per the UGC's Deemed to be Institution (Deemed to be University) regulations and the appropriate statutory/regulatory Council authorities and the Institute's Academic Council/Executive Council.

Bachelor of Technology shall be abbreviated as **B.Tech.** in parenthesis.

a) Undergraduate (UG) engineering degree programme shall be indicated in parenthesis after the subject of the programme. For example Undergraduate (UG) degree programme in Mechanical Engineering shall be mentioned as

Bachelor of Technology (B.Tech.)
in
Mechanical Engineering

b) Undergraduate (UG) engineering degree programme with specialization, specialization shall be indicated in parenthesis after the subject of the programme. For example undergraduate (UG) degree programme in Computer Science and Engineering with specialization in Artificial Intelligence & Machine Learning shall be mentioned as

Bachelor of Technology (B.Tech.)
in
Computer Science and Engineering
(with specialization in Artificial Intelligence & Machine Learning)

c) Undergraduate (UG) engineering degree programme with minor, minor degree shall be indicated after the subject of the programme. For example, undergraduate (UG) degree programme in Electronics and Communication Engineering with minor in Blockchain Technology shall be mentioned as

Bachelor of Technology (B.Tech.)
in
Electronics and Communication Engineering with
Minor Degree in Blockchain Technology

d) Undergraduate (UG) engineering degree programme with Honours, Honours shall be indicated after the subject of the programme. For example, undergraduate (UG) degree programme in Computer Science and Engineering with Honours shall be mentioned as

Bachelor of Technology (B.Tech.) (Honours)
in
Computer Science and Engineering

e) Undergraduate (UG) engineering degree programme with Honours with Research, Honours with Research shall be indicated after the subject of the programme. For example, undergraduate (UG) degree programme in Biotechnology (Honours with Research) shall be mentioned as

Bachelor of Technology (B.Tech.) (Honours with Research)
in
Biotechnology

25.4.2 UG Engineering Programmes offered

Table 1: List of UG Engineering Programme

1. B.Tech. Aeronautical Engineering
2. B.Tech. Artificial Intelligence (AI) and Data Science
3. B.Tech. Artificial Intelligence and Machine Learning
4. B.Tech. Biomedical Engineering
5. B.Tech. Biotechnology
6. B.Tech. Civil Engineering
7. B.Tech. Computer Science & Engineering
8. B.Tech. Computer Science and Design
9. B.Tech. Computer Science and Engineering (Artificial Intelligence and Machine Learning)
10. B.Tech. Computer Science and Engineering (Cyber Security)
11. B.Tech. Computer Science and Engineering (Data Science)
12. B.Tech. Electrical and Electronics Engineering
13. B.Tech. Electronics and Communication Engineering
14. B.Tech. Information Technology
15. B.Tech. Mechanical Engineering

25.5 Programme Duration

25.5.1 Minimum Duration of the Programme

a) The minimum duration of the programme for regular students shall be 4 Years consisting of 8 semesters.

b) The minimum duration of the programme for lateral entry students, who are admitted in the second year, shall be 3 years consisting of 6 semesters.

25.5.2 Maximum Duration of the Programme

The maximum duration which a student can take to complete a programme shall be as follows for students admitted from 2025 -26 academic year onwards:

a) Maximum duration = N+3 years, where N stands for the minimum duration (In Years) prescribed for completion of the programme.

b) Under any exceptional circumstance, a further extension of one more year may be granted subject to approval of Vice-Chancellor for the requisition made by the student.

25.6 Course Credit Hours

The academic programmes of the Institution are based on credit system. A 'credit' is the unit by which the course work is measured. It determines the number of contact hours of instructions required per week.
The general credit allocation pattern is as follows:

- 1 Hour of Lecture (L) / Tutorial (T) per week is considered as 1 credit (15 Hours/Sem)
- 2 Hours of Practical (P)/Project (PJ) per week is assigned with 1 credit (30 Hours/ Sem)

25.7 Self-Learning(SL) Hours

In addition to lecture, tutorial, practical/practice, and project hours, the curriculum includes Self-Learning Hours. Self-Learning Hours refer to the time students are expected to dedicate to independent learning activities outside of scheduled classroom instruction. These activities may include reviewing lecture notes, completing assignments, engaging in further reading, practicing problems, or working on projects without direct guidance of faculty.

- Any short term professional development certification course may also be considered.
- The Self-Learning methods are listed in below *clause 25.8.*

25.8 Self-Learning(SL) Methods

- Experiential Learning, Research & Innovations and Hackathon
- National/International Collaborative Learnings
- Innovation Labs – Incubation and Start-Ups
- Assignments
- Yoga and Physical Activities and Personality Development
- Social Work, NSS/NCC, Bag-less Days
- Examinations, Class Tests and Quizzes
- Field Visits in skill education
- Vocational Education
- Training and Skilling including virtual/online certifications
- Any other activity as decided by the departments

25.9 Notional Credit Hours (As per the National Credit Framework)

'Notional Credit-hours' is defined as the total contact hours and self-learning hours put together. Notional Credit-hours is 30 per credit for all courses uniformly.

If the number of credits offered in a semester is 22 Credits, then the total notional credit hours utilized for teaching and learning must be around 660 (22 x 30) hours which includes physical contact hours and Self-Learning hours.

25.10 Project/Problem Based Learning (PBL)

- Project/Problem-Based Learning (PBL) is embedded in the curriculum through selected Programme Core and Elective courses across disciplines. These courses are designed to promote experiential learning aligned with course objectives and outcomes. Students shall undertake and complete course-related projects within the semester under faculty guidance. The recommended group size for each project is limited to three members to ensure effective collaboration and learning.
- Departments may offer two to three courses in PBL method.

25.11 Categorization of courses of B.Tech. Programme (Regular & Lateral Entry) and credits distribution

Each and every course offered in the B. Tech. Programme shall be categorized into any one of the categories as outlined in the table below.

Table 2: Minimum credits required for Regular and Lateral Entry students in various course categories

S.No.	Name of the Category	Regular students (Credit req.)	Lateral Entry students (Credit req.)
1	Foundation Core Courses (FCC)		
	a. Basic Science Courses (BSC)	24	6
	b. Engineering Science Courses (ESC)	18	-
	c. Humanities & Social Science Courses (HSC)	7	3
	Total (a+b+c):	49	9
2	Programme Core Courses (PCC)	58	56
3	Programme Elective Courses (PEC)	20	
4	Open Elective Courses (OEC)	8	
5	Independent Learning Courses (ILC)		
	a) Community Service Project (CSP)	1	
	b) Minor Project	2	

	c) Summer Internship	2	
	d) Major Project	9	
	Total (a+b+c+d) :	14	
6	Industry / Higher Learning Institute(IHL)	2	
7	Ability Enhancement Courses (AEC)#	4	
8	Skill Enhancement Courses (SEC)	6	
9	Value Added Courses (VAC)	4	
10	Mandatory Courses (If any)*	0	
	Total Credits	**165**	**123**

* Credit will not be included into CGPA.

upto 2 credits will be offered by School of Science and Humanities.

25.12 Description of Different Categories of Courses of B.Tech. Programmes

25.12.1 Foundation Core Courses (FCC)

25.12.1.1 Basic Science Courses (BSC)

Basic Science Courses (BSC) are foundational courses designed to impart essential scientific knowledge relevant to engineering. These courses carry 24 credits for regular students and 6 credits for lateral entry students. They aim to strengthen the understanding of core scientific principles applicable across engineering disciplines.

25.12.1.2 Engineering Science Courses (ESC)

Engineering Science Courses (ESC) provide a foundational understanding of core engineering concepts drawn from multiple disciplines. These courses carry 18 credits for regular students and serve as a preparatory base for advanced and specialized engineering studies.

25.12.1.3 Humanities and Social-Science Courses (HSC)

Humanities and Social Sciences Courses (HSC) are intended to enhance the educational breadth of engineering students by developing skills to address human and societal challenges in technical contexts. These courses carry 7 credits for regular students and 3 credits for lateral entry students.

25.12.2 Programme Core Courses (PCC)

"Programme Core Courses (PCC)" for engineering students refer to a set of courses that are essential for a particular engineering discipline. It carries 58 credits for regular and 56 credits for lateral entry students. It is designed to impart discipline-specific knowledge, technical competencies, and employability skills

essential for professional growth and career readiness in the chosen field of study.

25.12.3 Programme Elective Courses (PEC)

“Programme Elective Courses (PEC)" for engineering students typically refer to specialized courses offered within a Bachelor of Technology (B.Tech.) engineering programme that allow students to choose subjects related to their specific major or specialization. It carries 20 credits for both regular and lateral entry students. PECs provide students with the flexibility to tailor their engineering education according to their career goals or passions while still covering core engineering principles.

25.12.4 Open Elective Courses (OEC)

"Open Elective Courses(OEC)" offered by the other school programmes, outside the student’s major discipline. It carries 8 credits for both regular and lateral entry students. These courses enhance the academic experience, foster interdisciplinary learning, and contribute to the personal and professional development of students, preparing them to meet diverse challenges in their engineering careers.

25.12.5 Independent Learning Courses (ILC)

Independent Learning Courses (ILCs) form an integral part of the B.Tech. curriculum and are aimed at fostering self-directed learning among students. These courses provide opportunities to undertake projects, internships, or explore topics beyond the structured curriculum, thereby promoting critical thinking, innovation, and engagement with emerging technologies and interdisciplinary areas. A total of 14 credits are assigned to ILCs for both regular and lateral entry students.

These courses are structured to promote autonomous learning by encouraging students to take ownership of their academic journey and equipping them to address real-world engineering challenges effectively. The following are the different ways through which these ILC are considered by the students.

a) Community Service Project - 1 Credit

b) Minor Project - 2 Credits

c) Summer Internship - 2 Credits

d) Major Project - 9 Credits

25.12.6 Industry / Higher Learning Institute(IHL) Courses

Industry / Higher Learning Institute (IHL) courses are structured to bridge the gap between academic knowledge and its practical application in industry and international higher education institutions. These courses are intended to equip students with relevant skills through exposure to hands-on experiences, professional practices, and emerging technologies aligned with sectoral requirements. It carries 2 credits for both regular and lateral entry students.

25.12.7 Ability Enhancement Courses (AEC)

Ability Enhancement Courses (AEC) are offered to augment students' skills and competencies beyond the core curriculum, thereby enriching their academic and professional development. These courses, carrying 4 credits for both regular and lateral entry students, are offered by the departments based on students' interests and career aspirations, and are intended to complement their major field of study.

25.12.8 Skill Enhancement Courses (SEC)

Skill Enhancement Courses (SEC) are intended to equip the students with discipline specific practical skills that complement their core area of study. These courses focus on enhancing applied knowledge and professional competencies to improve employability and readiness for real-world challenges. It carries 6 credits for both regular and lateral entry students.

25.12.9 Value Added Courses (VAC)

Value Added Courses (VAC) are intended to provide students with opportunities for holistic development by acquiring additional knowledge, skills, values, ethics, constitutional awareness, environmental consciousness, health and wellness, digital competencies, financial literacy, entrepreneurship, innovation, and Indian Knowledge Systems beyond their core curriculum. These courses are offered by the departments based on students' interests and career aspirations, and are intended to complement their major field of study. It carries 4 credits for both regular and lateral entry students.

25.12.10 Mandatory Courses

Mandatory Courses are introduced to support the students from varied academic backgrounds in adapting to the academic and professional expectations of Engineering and Society. These courses may be offered with or without credits; however, the credits earned shall not be considered for computing the CGPA but will be reflected in the grade sheet. The student shall select ***any three courses*** from the below mentioned list under this category.

1. Biology for Engineers
2. Project Management and Finance
3. Innovation & Entrepreneurship
4. Constitution of India
5. Engineers and Society

Any other course recommended by the department may also be considered, subject to the approval of the Board of Studies (BoS).

25.13 MOOC based Self-Learning courses with or without credit transfer

25.13.1 Approved MOOC Platforms

- Permitted MOOC Platforms - SWAYAM, NPTEL, NPTEL+, and SWAYAM Plus are currently the only UGC/AICTE-approved MOOC platforms recognized for credit transfer.
- Departments also shall prescribe other MOOC platforms, ensuring they include a credible evaluation mechanism.
- The list of approved MOOC courses for each semester shall be finalized by the respective departments/schools with the approval of the Board of Studies (BoS) and Academic Council.
- Students must successfully complete the prescribed MOOC courses and submit the pass certificate to be eligible for credit transfer. The marks obtained will be converted to the corresponding letter grade and grade point as per the Institution's guidelines, and recorded accordingly by the department.
- Upon securing pass marks in the course, the mark obtained will be converted as per the criteria specified by Institution and corresponding letter grade and grade point will be assigned by the respective department and submitted for further processing.
- The approval process for student-registered MOOC courses begins at the department level and is subsequently submitted to the Office of the Controller of Examinations through the office of the Dean Academics.

25.13.2 Courses Allowed on MOOC with Credit Transfer

a) MOOC Credit Transfer for the courses of Specialization/Honours/Minor Degrees: Students may register and complete MOOC courses included in the curriculum of their programme pertaining to Specialization,Honours

Degree and Minor Degree. But the MOOC credits will only be given and shown on the grade card for the semester in which the department says the course is part of the curriculum.

b) Programme Elective Courses from MOOC: Students may take 2 elective courses (each minimum of 3 credits - Up to 6 Credits) from Programme Elective Courses Category (PEC) [From the listed courses under *Clause 25.12.3.*]. Note: Both syllabus of elective courses of VTU and the course identified from MOOC shall match at least 75% syllabus.

c) Open Elective Courses from MOOC: Students may take 1 open elective course (Minimum 3 Credits) from Open Elective Courses Category (OEC) [From the listed courses under *Clause 25.12.4*].

d) Mandatory Courses from MOOC: Students may take any of these courses and successfully complete for transforming on to grade sheet.

e) Students are advised to consider studying courses on MOOC from 3^{rd} Semester and up to 6^{th} Semester. It is not advisable to study MOOC during the First year and Final Year.

f) Students who are working with Industries in-person for their Internship, Project, Semester-long Internship, Minor and Major Project and On-the-Job Training (OJT) are also allowed to opt for MOOC with credit transfer on the advice of respective authority.

g) It is essential that all MOOC must be approved by the BoS.

h) Mark and grade conversion. Pass Mark (as per NPTEL) : 40, & Pass Mark (as per Vel Tech) : 50.
Overall Score Calculation : Pass Mark (as per NPTEL) * 1.25.

25.14 Course Registration

25.14.1 Minimum/ Maximum Credit Limits for Regular Course Registration in a semester

- Minimum/ Maximum Credit Limits in a Semester: The minimum number of credits that the students are expected to register in a semester is 20 credits, and up to a maximum of 25 Credits in a semester. However, students who are opting Honours/Minor are allowed to register up to 31 credits.
- In case if a student availing semester long internship in any of the semesters, the minimum credit limit is relaxed based on the recommendation of the Head of the Department / School Dean, clearly submitting the reason justifying the same.

- The minimum and maximum credit limits may be relaxed further on the approval of Vice Chancellor as per the request of Offices of the Deans of (i) Industry Relations (ii) International Relations and (iii) Campus to Corporate.

25.14.2 Re-Registration (RR)

- Re-Registration is a facility provided to students who were declared as "NOT-ELIGIBLE", due to shortage of attendance earned by the students in the courses during the previous semester(s).
- Students who became NOT ELIGIBLE due to shortage of attendance in any of the (PE/OE) courses will have to re-register for the same course or in a substitute course in the subsequent semester and clear it to claim credits for that elective option.
- Students who want to improve internal marks in any of the course will have to re-register for the same course in the subsequent semester and clear it to claim the credits.
- The number of credits that the students are allowed to re-register is as per the maximum limit defined in the *clause 25.14.1.*
- In all the above cases, students need to pay prescribed fees for re-registration of the courses.

25.14.3 Extended Registration (ER)

- Extended Registration is a facility provided to students who have completed the minimum duration of 4 years (8 semesters) without completing the required credits to award the degree.
- The maximum number of credits that the students are allowed for extended registration is as per the *clause 25.14.1*.
- Students need to pay prescribed fees for extended registration of courses.

25.14.4 Backlog / Arrear Courses

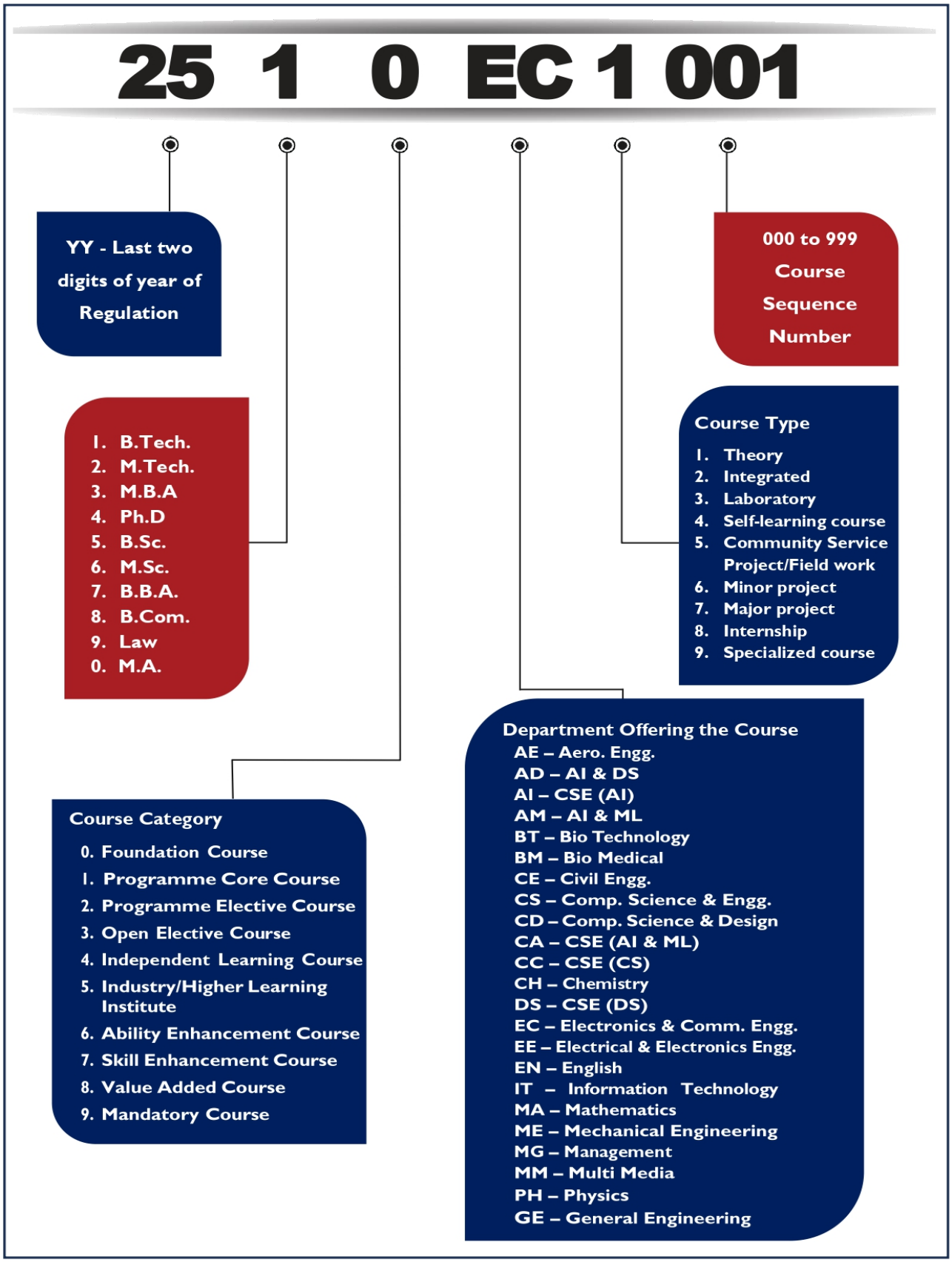
- Students who have failed to obtain minimum pass marks in any course during the semester, will be declared as 'RA' in that course, means "Re-Appearance".
- All such students are allowed to enrol with the Controller of Examinations Office notification by paying prescribed examinations fees.

25.14.5 Course Withdrawal

- A student, if eligible for appearing in the semester end examination shall be allowed to withdraw the courses for valid reasons, only with prior approval of the Head of the Department, the Dean and same shall be intimated to the Vice chancellor through proper channel.
- In case of medical emergencies alone, post-facto approval may be accorded by the Head of the Department with prior intimation received from the student or parent or guardian, he/she shall appear for the “Semester End Examination” in the subsequent semester.
- The courses withdrawn shall not be considered as an appearance for classification of the Degree.
- For any course withdrawn by the student in the final semester of the programme, supplementary examination shall be conducted within maximum period of 45 days from the date of the publication of results.

25.15 Course Numbering Scheme

The course number consists of digits/alphabets. A typical course number is illustrated below.



25.16 Eligibility for Semester End Examinations (SEE)

25.16.1 Minimum Attendance Requirement for Semester End Examinations (SEE)

The minimum attendance requirements for various components of evaluation of a course are as given in the Table shown below.

Table 3: Minimum Attendance Requirement

S. No.	Component	Period of Calculation of Attendance	Min. Attendance Required
1	Semester End Examinations (SEE)	From the date of commencement of the course to the Last Instructional Day (inclusive) (for all students Semesters 1 to 8)	75%

25.16.2 Attendance Policies:

- A student shall secure a minimum of 75% attendance in a course in order to attend semester end examination of that particular course.
- Condonation of shortage in attendance may be recommended by the respective course handling faculty through proper channel on genuine medical grounds/participation in sports/co-curricular activities provided the student puts in at least 65% attendance and provided, the Vice-Chancellor is satisfied with the genuineness of the reasons and the conduct of the student. Students shall have to pay requisite fee towards condonation.
- Computerized attendance monitoring system is used for maintaining the attendance of the students by the faculty members. Students who fail to maintain the minimum attendance criteria will not be permitted to write the respective evaluation component of the course (CIA/SEE) and they will be considered as 'NOT ELIGIBLE TO APPEAR FOR THE EXAMINATION' for that particular course(s).
- Students' who are declared as 'Not Eligible' to appear for the examination of the course(s), due to shortage of minimum required attendance, shall be required to 'RE-REGISTER' for the same course as per the *clause 25.14.2.*

25.16.3 Assessment Components – Continuous Internal Assessment (CIA) and Semester End Examinations marks and passing requirement

Table 4: Assessment Components

S. No.	Course Type	Continuous Internal Assessment (CIA)	Semester End Examinations (SEE)			Minimum Pass (CIA+SEE) Marks
			SEE For	Marks	Min. Pass	
1	Theory Course	50	Theory	50	50%	50%
2	Practical Course	50	Practical	50	50%	50%
3	Theory (D) + Practical	50	Theory	50	50%	50%
4	Theory + Practical (D)	50	Practical	50	50%	50%
5	Community Service Project	50	Report	50	50%	50%
6	Minor Project/ Major Project/ Internship	50	Project	50	50%	50%
7	SEC / AEC / VAC / IPT/ IHL Courses	100				50%

25.16.4 Assignment

a) All theory, integrated (theory) and integrated (lab) course registered students shall submit one assignment cum presentation which carries five marks

b) The assignment shall measure the knowledge of the students in the 'Apply' and above levels of revised Bloom's taxonomy.

c) The rubrics for the presentation shall be prepared and informed to the students in advance by the course faculty and also shall be uploaded on Academic Management System(AMS) login.

25.16.5 Scheme for Assessment

Table 5: Scheme for Assessment

S. No.	Course Type	Weightage for Assessment Components															Total
		Continuous Internal Assessments (CIA) Components										Semester End Examinations (SEE)					
		CIA - 1	CIA - 2	Assignment	Average of marks for Experiments	Model exam /Report	Review - 1	Review - 2	Project report + Viva.	Attendance	Total	Written Exam	Practical Exam	Project Demo + Report	Project viva-voce	Total SEE	
1	Theory	20	20	5						5	50	50				50	100
2	Laboratory				20	30					50		50			50	100
3	Theory (D) + Lab	10	10	5	10	10				5	50	50				50	100
4	Theory + Lab (D)			5	20	25					50		50			50	100
5	Community Service Project						15	15	15	5	50			40	10	50	100
6	Minor Project						15	15	15	5	50			40	10	50	100
7	Industry Project						15	15	15	5	50			40	10	50	100
8	Major Project						15	15	15	5	50			40	10	50	100
9	SEC / AEC / VAC / IHL / IPT Courses	Examinations – CIA & SEE will be conducted by departments only.															

25.16.6 Attendance

Table 6: Attendance

Course-wise Attendance % Earned	Mark
Below 75%	0
75 to 79%	3
80 to 89%	4
90 to 100%	5

25.17 Assessment Scheme for Courses fall under other Categories

25.17.1 Scheme for Skill Enhancement, Ability Enhancement and Value Added Courses

- All courses falling under the above categories shall be evaluated by the respective departments for 100 marks which include 5 marks for attendance percentage earned by the students.
- Evaluation rubrics shall be prepared and approved in the BoS at the time of approval of course syllabus.

25.18 Scheme for Industry / Higher Learning Institute(IHL) Courses

- Courses falling under the IHL category are to be proposed by the Industry Relations office and /or International Office based on the request of the departments.
- These courses will have 1 or 2 Credits, as per the approval of Vice-Chancellor taken through the Office of the Dean Academics.
- Course Faculty/Expert shall evaluate the course for a maximum of 100 Marks, which includes 5 marks for attendance percentage earned by the students.
- Evaluation rubrics shall be prepared and approved along with Course Approval.

25.19 Break of Study

- Students can opt for a temporary academic break, giving them the flexibility to rejoin later while maintaining their existing academic progress under Re – Admission category.
- This feature permits students to temporarily pause their studies, perhaps to pursue other opportunities, and then rejoin to complete their degree without starting from scratch.

The following specified reasons may be considered by most of the students.

- Severe Medical Conditions: If a candidate intends to temporarily discontinue the programme during the study at any time, for valid reasons, such as accident or hospitalization due to prolonged ill health he/she shall apply in advance to the Vice Chancellor through the Dean of the concerned School and Office of the Dean Academics, stating the reasons and submitting proper medical documents.
- Entrepreneurship / Start-Ups / Incubation and Innovation: If the student is planning to work with the start-ups at Vel Tech TBI, the student shall apply for the break in study with all necessary documents and recommendation from the Head of Vel Tech TBI to the Vice Chancellor through the Dean of the concerned School and Dean Academics, stating the reasons, within 10 Working Days of commencement of Academic session.
- The candidate is permitted to rejoin the programme, up on completion of the break, as per the rules and regulations in force at the time of rejoining.
- The duration specified for passing all the courses for the purpose of classification as of the degree shall not be altered by the period of such break of study permitted.
- The total period for completion of the programme reckoned from the commencement of the first year to which the candidate was admitted shall not exceed the maximum period specified due to the break of study in order that he/she may be eligible for the award of the degree.

25.20 Multiple Entry/Migration

- The Institution academic programme offers Choice Based Credit System and transfer of credits. Transfer of credits enables a student to transfer the credit earned by a student moves from one institution to another or between two programmes of same Institution, or Institutions within the State / National / International.
- This enables a student to migrate mid-stream from other institutions to these institution. Thus, students from other universities within and outside India can also join programmes of their choice mid-stream subject to eligibility but with facility to transfer the credits earned by such student in the Institution from which he/she is migrating.

25.20.1 Cases of Migration

a. From one programme of a Department/School to another within the same Department/School in the Institution.

b. From one department of a School to another School in the Institution.

c. From any other Institution in India to Vel Tech with or without change in Department.

d. From any other Institution in Abroad to Vel Tech with or without change in the Department.

25.20.2 Migration from one programme to another programme within the same school of the Institution.

In case of an application by a student of the University for transfer from the branch of the school in which he has enrolled to another branch in the same school, a Migration Committee shall refer to the guidelines of BoS and decide the courses the student would have to complete to qualify to receive a degree from the transferee department subject to the condition that the student fulfills the required number of credits for the new branch including those which can be transferred. The decision of the Migration Committee shall be placed for ratification before the BoS, Academic Council and the Executive Council. In each such case a specific order in writing shall be issued by the Registrar with the approval of the Vice-Chancellor and communicated to the student, Dean, HoD of the transferee department, CoE and Finance Departments.

25.20.3 Migration from one department of a school to another school in the Institute

In case of an application by a student of the University for transfer from the branch of the school in which he has enrolled to another branch in a different school, a Migration Committee shall refer to the guidelines of BoS and decide the courses the student would have to complete to qualify to receive a degree from the transferee department subject to the condition that the student fulfills the required number of credits for the new branch including those which can be transferred. The decision of the Migration Committee shall be placed for ratification before the BoS, Academic Council and the Executive council. In each such case a specific order in writing shall be issued by the Registrar with the approval of the Vice Chancellor and communicated to the student, Dean, HoD of the transferee department, CoE and Finance Departments.

25.20.4 Migration from any other university in India to Vel Tech with or without change in Department

In case of an application by a student of any other Indian university for migration into Vel Tech with or without change in Department of study, a Migration Committee shall refer to the guidelines of BoS and decide the courses the student would have to complete to qualify to receive a degree from the department to which migration is sought subject to the condition that the student fulfills

the required number of credits for the new branch including those which can be transferred. The decision of the Migration Committee shall be placed for ratification before the BoS, Academic Council and the Executive council. In each such case a specific order in writing shall be issued by the Registrar with the approval of the Vice Chancellor and communicated to the student, Dean, HoD of the transferee department, CoE and Finance Departments.

25.20.5 Migration from any other university in Abroad to Vel Tech with or without change in Department

In case of an application by a student of any foreign university for migration into Vel Tech with or without change in Department of study, a Migration Committee shall refer to the guidelines of BoS and decide the eligibility of the candidate for migration, recognition status of the foreign university with UGC, Programme / course equivalence, courses the student would have to complete to qualify to receive a degree from the department to which migration is sought for subject to the condition that the student fulfils the required number of credits for new branch including those which can be transferred. The decision of the Foreign University Migration Committee shall be placed for ratification before BoS, Academic Council and the Executive council. In each such case a specific order in writing shall be issued by the Registrar with the approval of the Vice Chancellor and communicated to the student, Dean of school, HoD of the transferee department, CoE and Finance Departments.

A Migration Committee will be constituted with the following members:

- Dean Academics – Chair
- Controller of Examinations
- School Dean
- Head of the Department
- Senior Professor(s) - two members

25.20.6 Course work for migration students

Migrant students shall complete the courses prescribed by the Migration Committee at their own pace within the remaining programme duration, subject to course availability, and shall fulfil all attendance, assignment, test, practical and other assessment requirements.

The important process involving institutional transfer is “Academic Credit Transfer” - Transferring earned credits from one institution/programme to another to

continue studies without repeating coursework. For this, Credit earned by students shall also be taken from "ABC Portal".

Transfer of students will be considered after the First Year before entering into Final Year of Study, based on the successful completion of specified courses and earned credits of the programme curriculum of the source institution.Transfer can be considered only during the second and third year, well before the commencement of the academic session. In all the above types of transfers, the recommendation of the "Department Advisory Committee (DAC)" is essential and the recommendation shall be placed before the BoS and Academic Council for approval/ratification.

25.21 Classification and Award of the Degree

25.21.1 B.Tech. Degree in a Major Branch (Regular Students)

(a) A regular student shall secure a minimum of **165 credits** and fulfil the minimum credit requirement in each category as mentioned in Table No. 2 *(clause 25.11)*.

AND

(b) A regular student shall register for mandatory courses as prescribed in *clause 25.12.10* and successfully complete the courses as per the assessment procedure given in Table No. 5 *(clause 25.16.5)*.

AND

(c) **CGPA Requirement:** Secure a minimum CGPA of 5 on 10-point scale.

AND

(d) **Study Duration Requirement:** A student shall fulfil the duration of the programme requirements as given in the *clause 25.5*.

25.21.2 B.Tech. Degree in a Major Branch (For Lateral Entry Students)

(a) A student shall secure a minimum of **123 credits** and fulfil the minimum credit requirement in each category as mentioned in Table No. 2 (*clause 25.11*).

AND

(b) A Lateral Entry student shall register for mandatory courses as prescribed in clause 25.12.10 and successfully complete the courses as per the assessment procedure given in Table No. 5 *(clause 25.16.5)*.

AND

(c) **CGPA Requirement:** Secure a minimum CGPA of 5 on 10-point scale.

AND

(d) **Study Duration Requirement:** A student shall fulfil the duration of the programme requirements as given in the *clause 25.5*.

25.21.3 B.Tech. Degree in a Major Branch (with Specialization)

(a) A student shall secure a minimum of 165 (regular) / 123 (lateral entry) credits and fulfil the minimum credit requirement in each category as mentioned in Table No. 2 *(clause 25.11)*.

AND

(b) A regular student shall register for mandatory courses as prescribed in *clause 25.12.10* and successfully complete the courses as per the assessment procedure given in Table No. 5 *(clause 25.16.5)*.

AND

(c) **CGPA Requirement:** Secure a minimum CGPA of 5 on 10-point scale.

AND

(d) **Study Duration Requirement:** A student shall fulfil the duration of the programme requirements as given in the *clause 25.5*.

AND

(e) **Specialization Course Credits Requirement:** A student shall select and study Programme Electives courses equivalent of 20 Credits as prescribed in *clause (25.12.3)* from the chosen "Specialization", rather than choosing programme related general electives courses.

25.21.4 B.Tech. Degree in a Major Branch with (Minor in other school)

a) A student shall secure a minimum of 165 (regular) / 123 (lateral entry) credits and fulfil the minimum credit requirement in each category as mentioned in Table No. 2 *(clause 25.11)*.

AND

b) A regular student shall register for mandatory courses as prescribed in *clause 25.12.10* and successfully complete the courses as per the assessment procedure given in Table No. 5 *(clause 25.16.5)*.

AND

c) **CGPA Requirement:** Secure a minimum CGPA of 5 on 10-point scale.

AND

d) **Study Duration Requirement:** A student shall fulfil the duration of the programme requirements as given in the *clause 25.5*.

AND

e) **Minor Course Credit requirements:** A student shall earn 18 credits in any emerging area in other programmes apart from the admitted major programme under Open Elective category *(Clause 25.12.4)*.

25.21.5 B.Tech. Degree with Honours in a Major Branch

a) A student shall secure a minimum of 165 (regular) / 123 (lateral entry) credits and fulfil the minimum credit requirement in each category as mentioned in Table No. 2 *(clause 25.11)*.

AND

b) A regular student shall register for mandatory courses as prescribed in *clause 25.12.10* and successfully complete the courses as per the assessment procedure given in Table No. 5 *(clause 25.16.5)*.

AND

c) **CGPA Requirement:** Secure a minimum CGPA of 5 on 10-point scale.

AND

d) **Study Duration Requirements:** A student shall fulfil the duration of the programme requirements as given in the *clause 25.5*.

AND

e) **Honours Course Credit requirements:** A student shall select and study courses equivalent of 18 Credits from the list of courses pertaining to Honours Degree and from specialization as mentioned in clause 25.12.3.

25.21.6 B.Tech. Degree Honours with Research in a Major Branch

a) A student shall secure a minimum of 165 (regular) / 123 (lateral entry) credits and fulfil the minimum credit requirement in each category as mentioned in Table No. 2 *(clause 25.11)*.

AND

b) A regular student shall register for mandatory courses as prescribed in *clause 25.12.10* and successfully complete the courses as per the assessment procedure given in Table No. 5 *(clause 25.16.5)*.

AND

c) **CGPA Requirement:** Secure a minimum CGPA of 5 on 10-point scale.

AND

d) **Study Duration Requirement:** A student shall fulfil the duration of the programme requirements as given in the *clause 25.5*.

AND

e) **Honours Course Credit requirement:** A student shall select and study courses equivalent of 18 Credits from the list of courses pertaining to Degree and from specialization as mentioned in *clause 25.12.3*.

AND

f) **Research Requirement:** To receive Honours with Research Degree, students shall carry out research work for at least two consecutive semesters, evidenced with at least **one publication** in a Scopus or Web of Science (WoS) Indexed Journal.

25.22 Grading Policy

Absolute grading system is followed by the Institution to convert marks to grades.

25.22.1 Absolute Grading Policy:

All assessments are evaluated on absolute marks basis. For representing the performance of students in each course, letter grades, each carrying certain number of points, will be awarded as defined in the table given below. For this, percentage of marks obtained by the candidate in each course is considered.

Table 7: Grading Policy

Range of Percentage of Mark Secured by Students	**Letter Grade**	**Grade Points**
91 to 100	O (Outstanding)	10
81 to 90	A+ (Excellent)	9
71 to 80	A (Very Good)	8
61 to 70	B+ (Good)	7
56 to 60	B (Above Average)	6
50 to 55	C (Average)	5
< 50	RA (Reappearance)	0
Absent	RA (Reappearance)	0
Pass in Mandatory (Non-Credit Course)	P (Pass)	0
Fail in Mandatory (Non-Credit Course)	F (Fail)	0

- A student is deemed to have passed and acquired the corresponding credits in a particular course if he/she obtains any one of the following grades: O, A+, A, B+, B and C.
- 'RA' indicates that Reappearance is mandatory for that course concerned.

25.23 Computing SGPA/CGPA

25.23.1 Semester Grade Point Average (SGPA)

- The SGPA earned by a student is a quantitative indication of the student's performance in a semester.
- The SGPA is the weighted average of the grade points obtained in all the courses registered by the student in the current semester.
- SGPA Calculation:
  - For each course registered, the grade points earned are multiplied by the credits for that course.
  - The sum of all such credit- grade point products is then divided by the total credits registered in that semester to calculate the SGPA for that semester.

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

- $\mathbf{C}_i$ denotes the credit earned in the i^{th} course
- **n** is the number of courses in the semester
- $\mathbf{GP}_i$ is the Grade Points secured by a student in the i^{th} course

25.23.2 Cumulative Grade Point Average (CGPA)

- The CGPA indicates the overall performance of a student from the time of joining the programme to a specific semester.
- It is calculated by taking the weighted average of the grade points obtained in all the courses registered by the student since the first semester.

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

- $\mathbf{C}_i$ denotes the credit earned in the ith course
- **m** is the total number of courses considered for CGPA calculation as per the programme curriculum
- $\mathbf{GP}_i$ is the Grade Points earned by a student in the i^{th} course

25.23.3 Equivalent Percentage Calculation

The equivalent percentage of marks for CGPA shall be calculated as follows

Equivalent Percentage of marks = (CGPA * 10)

25.24 Award of Degree, Grade Sheets, Consolidated Grade Sheets

- The Academic Council and/or Executive Council of the Institution will approve the award of Degree to all eligible students and the degree will be issued during the convocation on a specified date.
- The degree may specify Major degree, with Specialization, with Minor, with Honours and Honours with Research *(Clauses 25.21.1 to 25.21.6)*, if any opted by the students.

25.25 Classification of Degree

Table 8: Classification of Degree

S. No.	Essential Criteria	Degree Classification
1	A student who satisfies the following Criteria shall be declared to have passed the examination in First class with Distinction. (a). The courses mentioned in the Foundation courses (clause 25.12.1) and Programme Core courses (clause 25.12.2) category must be cleared in the first appearance within minimum duration of the programme (*clause 25.05.01*). (b). Should have secured a CGPA greater than or equal to 8.00.	First Class with Distinction (FWD)
2	Student who satisfies the following Criteria shall be declared to have passed the examination in First class. (a). Should have passed the examination in all the courses of all eight semesters (6 semesters in the case of LE) within the Maximum duration. (b). Should have secured a CGPA of at least 6 and above.	First Class
3	All other students (not covered in the above clauses at S.No.1 & 2, who qualify for the award of the degree *(Clause 25.21)* shall be declared to have passed the examination in Second Class.	Second Class

25.26 Official Transcripts

Official transcripts shall be issued to students during the programme and upon completion, based on a formal request and payment of the prescribed fee. The transcript shall reflect only the courses, credits, and grades completed at the Institute and shall not categorize courses. Upon successful completion of the programme, the transcript will include semester-wise grade details, month and year of passing, and the Cumulative Grade Point Average (CGPA).

25.27 Support to Student or Professional Development

25.27.1 Support to Advanced Learners/Fast Learners

Students who are capable of learning fast, termed as 'fast or advanced learners', may be provided with the opportunities to study advanced courses and earn

additional credits in the same domain of major discipline (For Honours Degree) or in a 'Specialization' (For Degree with Specialization) or in a different domain (For Minor Degree).

a. Obtaining Minor Degree in Engineering

b. Obtaining Honours Degree

c. Obtaining Honours Degree with Research

d. Guided Self-Study for Outstanding Students

- Student recommended by the Department with a valid reasons may be allowed to study non-laboratory courses under any category in Guided self-study mode. The reasons may be related to placement/internship from other state or other Country/ with Institutions/Industry.
- Prior approval for the above courses shall be obtained by submitting an application along with the necessary supporting documents. The request shall be processed through the Dean – Academics and approved by the Vice-Chancellor.
- A Faculty member nominated by the department for each course shall mentor and monitor through the course duration.
- Course may be offered in Hybrid mode. Proper attendance shall be maintained by the course handling faculty.

25.27.2 Support to Slow Learners/Needy Students

- Students who face challenges in understanding academic content or consistently underperform in Internal Assessments and Semester End Examinations shall be identified as slow learners. This identification is based on a combination of factors, including performance in class tests, results from previous semesters, and observations made by the course handling faculty. Such students shall be provided with structured academic support to enhance their learning outcomes.
- They may require additional support to succeed, including
  - Counseling and Mentorship
  - Personalized learning
  - Remedial Classes
  - Giving additional learning materials like question bank, study materials, etc.
  - Additional Assignments and Tests

- Providing E-learning resources and involving students to do online certification programmes

- Mentor and course faculty will make arrangements to concentrate on slow learners continuously to ensure that they will perform better.

25.28 Student Discipline

25.28.1 Student Discipline in and around the Campus / Hostels / Transport / Department and School Events

- The Institution is committed to maintaining a disciplined and respectful campus environment conducive to academic and personal growth. Students are expected to uphold standards of academic integrity, personal conduct, and compliance with institutional policies.
- **Academic Integrity:** Strict prohibition of plagiarism, cheating, and violations of examination rules. Students must maintain honesty and accuracy in all academic work.
- **Respect and Personal Conduct:** Students are expected to demonstrate respectful behavior toward faculty, staff, and peers, maintain proper decorum, follow the dress code, and adhere to norms of civil conduct.
- **Campus Rules and Policies :**
  - Entry to campus requires authorized ID.
  - Students absent for three or more consecutive days must report with a parent and provide a written explanation.
  - Use of mobile phones may be restricted during lectures and official activities.
  - Responsible use of institutional facilities is mandatory.
  - Safety, security, and adherence to campus guidelines are to be strictly followed.
- **Prohibited Activities:** Activities such as smoking, consumption of alcohol, drug use, gambling, unauthorized celebrations (e.g., birthdays), damaging property, intimidation, violence, forgery, unauthorized occupation of facilities, vandalism, communal incitement, and use of abusive or threatening language are strictly prohibited.
- **Additional Violations:** These include non-compliance with examination regulations, improper behavior during industrial visits/internships, misuse of transport facilities, pasting of objectionable materials, and any form of physical, verbal, mental, or digital harassment.

Any breach of the above may result in disciplinary actions ranging from warnings to suspension or expulsion, in accordance with the Disciplinary Procedures of the Institution.

25.29 Ragging Menace

- Ragging in any form—verbal, physical, psychological, or behavioral—that causes distress, embarrassment, or harm to a fresher or junior student is strictly prohibited. Such actions are considered serious offenses and are subject to disciplinary and legal consequences.
- **Punitive Measures:** Students found guilty of ragging, on or off campus, shall face punishments including suspension, expulsion, cancellation of admission, withholding of academic privileges, withdrawal of scholarships, fines up to 25,000, and even imprisonment as per law. Collective punishment may be imposed if offenders are unidentified.
- **Institutional Mechanisms:** The Anti-Ragging Committee (ARC) is responsible for ensuring a ragging-free campus through monitoring, awareness programmes, and preventive strategies. The Anti-Ragging Squad functions under the ARC, conducting regular checks across campus and educating students on ragging and its consequences.
- **Mandatory Undertaking:** All students and their parents must submit an online Anti-Ragging Undertaking Affidavit annually, in compliance with UGC regulations. This process is mandatory for enrollment and continued registration at the Institution.
- Link to fill out the online undertaking affidavit by students and parents:
  * www.antiragging.in/affidavit_registration_disclaimer.html
  * www.c4yindia.org/Home/Undertaking

25.30 Academic Monitoring & Mentor Management System

- The Institution implements a structured Mentor–Mentee Scheme to provide continuous academic, personal, and professional support to students. Each student is assigned a faculty mentor who offers individual guidance throughout the academic programme.
- The Head of the Department supervises the mentoring process at the class or batch level, while individual Mentor Faculty provides personalized academic support, assists slow learners, and monitors student progress.
- Regular mentor–mentee interactions are documented through the Mentees Management System(MMS) Portal.

- Mentors also guide students in career planning, personal development, and encourage co-curricular participation.
- The scheme includes ethical counselling, support for at-risk students, and parental involvement.
- The mentoring process is periodically reviewed and enhanced based on feedback to ensure effective student development.

25.31 Academic Bank of Credits (ABC)/Automated Permanent Academic Account Registry (APAAR)

- The ABC–APAAR system is a unified digital framework that enables secure storage, accumulation, and transfer of academic credits and credentials. APAAR, linked to DigiLocker, acts as a permanent digital repository for student academic records, while ABC allows students to accumulate and transfer credits earned through formal and non-formal learning.
- The integration of APAAR ID with ABC ensures efficient verification of student qualifications, supports credit mobility across institutions, and promotes flexible, accessible, and learner-centric higher education. Institutions and employers benefit from streamlined credential validation, enhancing transparency and academic continuity.

25.32 Academic Affairs

- The Academic Calendar is prepared in advance in line with UGC/AICTE guidelines, scheduling key academic activities such as semester registration, commencement dates, continuous internal assessments dates, last instructional dates and Semester end examination dates.
- Each programme has a structured curriculum, approved by the Board of Studies and Academic Council, categorizing courses under various elective category to ensure holistic and specialized learning.
- A course refers to a specific one with defined content, credits, and learning outcomes, while the syllabus outlines its objectives, delivery methods (L-T-P-C-SL), assessment structure, learning materials, and outcome mappings. Syllabi are reviewed and updated based on technological trends and stakeholder feedback, with approval from the BoS and Academic Council.
- Course handling faculty members are responsible for conducting classes, adhering to syllabus and academic regulations, preparing session plans and evaluation rubrics, maintaining student records, communicating results, and reporting poor academic performance or attendance to the HoD / Dean as per institutional norms.

- The physically challenged candidates who have availed additional examination time and a scribe during their higher secondary (+2) / qualifying entrance examinations shall be given similar concessions on production of relevant proof /documents.
- Students who are suffering from contagious diseases shall not be allowed to appear either continuous or semester end examinations.
- The Vice Chancellor shall deal with any academic problem/issues, which is not covered under these rules and, in consultation with the Directors, Deans and Heads of the departments in an appropriate manner, and subsequently such actions shall be placed before the Academic Council for ratification.

25.33 Amendments to the Regulations

1. The institution may, from time to time, revise, amend or change the Regulations, scheme of Examinations and Curriculum and Syllabus, if found necessary. Academic Council assisted by Board of Studies will make such revisions / changes.
2. Any ambiguity in interpretation of this regulation may be brought to the Vice Chancellor whose decision will be final.
3. Future Amendments: If the Institution on the recommendation of its Academic Council may decide to offer new programme(s) / specialization(s) or modifies the existing programme(s) / specialization(s), the same regulations with or without amendments shall be applicable.


Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology
1997