

Semester Results Grading: Computation of SGPA and CGPA

Absolute Grading System : Semester Grade Point Average (SGPA)
Cumulative Grade Point Average (CGPA)

LEVEL	OUT STANDING	EXCELLENT	VERY GOOD	GOOD	ABOVE AVERAGE	AVERAGE	PASS	FAIL
LETTER GRADE	O	A+	A	B+	B	C	P	F
GRADE POINTS	10	9	8	7	6	5	4	0
Percentage of marks scored in the course	(100-90)	(80-89)	(70-79)	(60-69)	(55-59)	(50-54)	(40-49)	(<40)

SGPA & CGPA Calculations

Absolute Grading System : Semester Grade Point Average (SGPA)
Cumulative Grade Point Average (CGPA)

$$SGPA = \sum (C_i \times G_i) / \sum C_i$$

$$SGPA = \frac{\sum (\text{course credits} \times \text{Grade points}) \text{ for all the courses in that semester}}{\sum (\text{course credits}) \text{ for all the courses in that semester}}$$

$$CGPA = \sum (C_i \times S_i) / \sum C_i$$

Where:

- S_i is the SGPA of the i^{th} Semester.
- C_i is the total number of credits in that semester.

Continuous Internal Evaluation (CIE) Procedure

➤ **CIE** is the sum of **Internal Assessment Test (IAT)** and a minimum of **TWO** of the **assessment methods** with suitable weightage for each.

➤ **Assessment methods:**

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| <ul style="list-style-type: none">• i) Assignments (Individual and/or Group)• ii) Seminars• iii) Oral/Online Quizzes• iv) Group Discussions• v) Case studies/Case lets• vi) Practical orientation on Design Thinking, Creativity & Innovation• vii) Participatory & Industry-integrated learning | <ul style="list-style-type: none">• viii) Practical activities/problem solving exercises• ix) Class presentations• x) Analysis of Industry/Technical/Business Reports• xi) Reports on Guest Lectures/Webinars/Industrial Visits• xii) Industrial / Social / Rural projects• xiii) Participation in Seminars/ Academic Events /Symposia, etc.• xiv) Any other academic activity |
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CIE, SEE, Minimum CIE and SEE Marks

Weightage of Marks: CIE:SEE = 50:50

Continuous Internal Evaluation (CIE): Theory Courses

Sl. No.	Credits	Exam duration (Hrs)	CIE (50 Marks)		SEE (50 Marks)		Total of CIE + SEE (100 Marks)	
			Min (40%)	Max (50)	Min (35%)	Max (50)	Min (40%)	Max
1.	>= 3	3	20	50	18	50	40	100
2.	2	3	20	50	18	50	40	100
3.	1	1	20	50	18	50	40	100

Continuous Internal Evaluation (CIE) Procedure

Continuous Internal Evaluation (CIE): Theory Courses

➤ **1 Credit: [L-T-P:: 1-0-0 / 0-2-0]**

Credits	Avg. of 2 Unit Tests - MCQ type (25 Marks each)	Any 2 Assessments (Ex: Assignment / GD / Quiz / Seminars) 25 marks each	Total CIE (50 Marks)	Min (40%)	Max
1	25	25	50	20	50

Note:

For 1-credit theory courses, IA shall be 25 marks for one hour test with 25 MCQs).

Continuous Internal Evaluation (CIE) Procedure

Continuous Internal Evaluation (CIE): Theory Courses

➤ 3 Credits: [L-T-P::3-0-0 / 2-2-0]

➤ 2 Credits: [L-T-P::2-0-0 / 1-2-0]

Credits	Ave. of 2 Unit Tests (25 Marks each)	Any 2 Assessments (Ex: Assignment / GD / Quiz / Seminars) Or (if the assessment is project-based, then one assessment method may be adopted)	Total CIE (50 Marks)	Min (40%)	Max
3, 2	25	25	50	20	50

Continuous Internal Evaluation (CIE) Procedure

Continuous Internal Evaluation (CIE): IC – Lab is integrated with theory

➤ **4 Credits:** [L-T-P :: 2-2-2 / 3-0-2 / 2-0-2]

Credits	Theory CIE			Lab	Final CIE (Th CIE + Lab)	Min (40%)	Max
	Avg. of 2 Unit Tests (15 Marks each)	02 Assessment Methods (if the assessment is project-based, then one assessment method may be adopted)	Total	(15 marks CRV + (10 marks Test)	Total (50 marks)		
4	15	10	25	25	50	12+8=20	50

Continuous Internal Evaluation (CIE) Procedure

Continuous Internal Evaluation (CIE):

Computer Aided Engineering Drawing (CAED)

➤ 3 Credits:[L-T-P :: 2-0-2]

Drawing Sheets (Scaled down to 30 marks)	1 Test for entire portion for 100 marks (Scaled down to 20 marks)	Total CIE (Drawing sheet+ test)	Min (40%)	Max
30	20	50	20	50

Semester End Examination (SEE) Marks and Passing standards

- **SEE** for all courses shall be conducted for a maximum of **100 Marks**.
- The marks secured by the students for 100 marks shall be proportionately **scaled down to a maximum of 50 marks** to add the same with the CIE marks for the award of the letter grade.
- The minimum SEE marks to be secured shall be **35 % of the maximum marks** i.e., **18 marks out of 50 marks**.
- **No SEE** for *lab component of Integrated Courses*.
- The course/s in which student/s **fail to satisfy attendance** and **CIE requirements** are also **considered as F only**.
- The **sum total of CIE and SEE** marks must be **40% of the maximum** marks **for passing** the course, i.e., **40 marks out of 100 marks**.
- **Ex: (CIE 20M + 18 M SEE = 48F ; CIE 22 M + 18 M SEE = 40 P; CIE 20M + 20 M SEE = 40 P)**

Semester End Examination (SEE) Marks and Passing standards

Theory Course with 4 (IC), 3 Credits and 2 credits

- **SEE** shall be conducted for a maximum of **100 Marks** with 05 modules, each module consisting of 02 main questions carrying 20 marks each.
- The students have to answer 01 main questions from each module. The marks secured by the students for 100 marks shall be proportionately **scaled down to a maximum of 50 marks** to add the same with the CIE marks for the award of the letter grade.

Theory Course with 1 Credit

- SEE paper shall be set for **50 questions**, each of 01 mark. The pattern of the question paper is MCQ (multiple choice questions). The time allotted for SEE is **01 hour**

Attendance and CIE Requirement

- A student has to put in a **minimum attendance of 85% in each Course.**
- However, there is a provision of **condonation of 10%** of the attendance by the Vice-Chancellor on the specific recommendations of the Principal of the college based on medical grounds, Participation in University/State/National/ International level sports and cultural activities, seminars, workshops, paper presentation etc., of significant value.
- The supporting documents for condoning the shortage of attendance are to be submitted along with the recommendations.

Vertical Progression

- **No restriction to promote from ODD to EVEN semesters.**
- Students can progress to 3rd Sem (i.e 2nd year) if the **total credits of failed courses are less than or equal to 16 credits** (40% of first-year credits).

Academic Bank of Credits (ABC)

- **The Academic Bank of Credits (ABC)**, is a national-level facility that will promote the flexibility of the curriculum framework and interdisciplinary/multidisciplinary academic mobility of students across the HEIs in the country with an appropriate “**credit transfer**” mechanism
- <https://www.abc.gov.in/>

Award of Degree

- A student shall be **declared to have completed the Programme of B.E. ., degree,** provided the student has undergone the stipulated course work as per the regulations and **has earned at least 160 Credits by regular / 120 credits by lateral entry students.**
- **CGPA ≥ 5.0** at the end of Programme shall be mandatory
- Apart from the academic credits, the AICTE activity points of 100 for regular students from 1st sem.
- Students who have **CGPA ≤ 5.0** shall be permitted to appear again for SEE in course/s (other than Internships, Technical Seminar, Projects and labs) of any semester/s without rejecting CIE marks for any number of times, subject to the provision of max. duration of the programme.

Award of Ranks, Prizes and Medals

- For award of rank in a branch of Engineering/Technology, the CGPA secured by the student from 3rd to 8th semester shall be considered.
- Student has passed ALL the courses of 1st to 8th semesters in FIRST attempt only in case of candidates admitted to 1st year.
- He is not a repeater in any semester because of rejection of results/shortage of attendance.
- He has completed all courses in the same scheme without a break
- He has not been transferred from any autonomous institution of VTU or from another university.
- A total of 10 ranks or 10% of total strength at 8th sem, whichever is less.
- For the award of ranks, there must be a minimum of 10 students in the Programme.