

Autonomous System: Norms and guidelines

Academic Calendar

SNo.	Activity	Description
1	Number of Semesters in a Year	Three Semesters: Two semester are regular (Odd & Even) and a Fast Track Semester
2	Regular Semester duration in weeks	19 weeks each
3	Fast Track Semester duration in weeks	7.5 weeks

❖ Credit System

The college follows a Choice Based Credit System (CBCS). The students have an option of choosing from a wide range of electives (department, cluster and institutional) and complete the programme at their own pace. Value added courses are also offered as a part of extended learning in interdisciplinary and multi-disciplinary domains. Thus the CBCS facilitates continuous learning and assessment.

One unit of course work is assigned one credit in the regular semester (odd/even):

- Theory Course conducted for One hour/Week/Semester
- Tutorials and Practical classes (Laboratory Courses) conducted for Two hours/Week/Semester

❖ Typical Credit Structure for course work in B.E. Programme:

Lectures (hrs/wk /Sem)	Tutorial (hrs/wk/ Sem)	Lab. Work (hrs/wk/Sem)	Total contact (hrs/wk/Sem)	Credits (L:T:P)	Credits (Total)
4	0	0	4	4:0:0	4
3	1	0	5	3:1:0	4
0	0	3	3	0:0:1.5	1.5

L- Lecture (hrs/week/sem); T –Tutorial (hrs/week/sem);

P- Practical (hrs/week/sem)

Typical Curriculum Framework

❖ B.E. degree programme:

S.No.	Subject Area		Total No. of Credits	% of the Total Credits
1	Basic Science	BS	26	13
2	Engineering Science	ES	26	13
3	Humanities and Management	HS	11	5.5
4	Professional Core (Theory & Practicals)	PC	100	50
5	Professional Elective, Open Elective	PE, OE	12	6
6	Final Year Project	PR	17	8.5
7	Self Study Courses /	SS	4	2
8	Certification Courses	CC	2	1
9	Internship		2	1
10	Audit Courses	AC	--	

11	Mandatory Noncredit Courses	MNC	--	
			200	

❖ **B.Arch. degree programme:**

S.No.	Subject Area	Average No. of Credits
1	Humanities and Social Science courses	37
2	Professional Core courses	156
3	Professional Elective courses	13
4	Departmental/Programme Major project	22
5	Professional Training	22
Total		250

❖ **Course load and credits to be taken by Students**

In the planning of Course work for the UG programme at the college, it is necessary to specify the average Course load for a student per semester, as well as its minimum and maximum limits. The average course load shall be fixed at 25 credits per semester.

The total number of credits required to be earned by a student to qualify for the award of the Degree in respect of Engineering (both regular and lateral entry) and Architecture is as shown in the following table:

Programme	Normal Duration		Total number of credits to be earned
	Years	Semester	
B.E.	4	8	200
B.E. (Lateral Entry)	3	6	150
B.Arch.	5	10	250

❖ **Student CIE and SEE assessment**

The assessment is carried out in two parts as follows:

- a. **Continuous Internal Evaluation (CIE)**, to be conducted by the subject teacher all through the semester; and, to include Internal Assessment tests, assignments, problem solving, group discussions, quiz, seminar, mini-project and other means.
- b. **Semester End Examination (SEE)**, to be conducted on dates to be fixed at the College level and to include a written examination for theory courses and practical/design examination with built-in oral part for laboratory/design courses.

Both CIE and SEE have equal (50:50) significance. Student's performance in a course shall be judged by taking into account the results of CIE and SEE individually and also together.

Evaluation Pattern for B.E. Programme

Particulars		Marks	Total	
Theory				
CIE	Three IA tests each of 25 marks (Average of best two tests)	25	50	
	Average of Two Assignments each of 10 marks/ Activity	10		
	Course Project/ Course Seminar/ Quiz	10		
	Class Performance	5		
SEE	Final examination shall be conducted for full syllabus for 100 marks	50	50	SEE marks reduced to 50 marks

Practical					
CIE	Conduct of lab		10	25	
	Journal		10		
	Lab test		5		
SEE	Final examination shall be conducted for 50 marks	Conduct of experiments and report writing	40	25	SEE marks reduced to 25 marks
		Viva- voce	10		
Total				150	

% Weightage of CIE : (50+25)/150 = 50%

% Weightage of SEE : (50+25)/150 = 50%

Make-up Examination: The Make-up Examination facility shall be available to students who may have missed to attend the SEE of one or more Courses in a semester for valid reasons and given the 'I' grade; Students having the 'X' grade shall also be eligible to take advantage of this facility. The standard of the Make-up Examination shall be the same as that of regular SEE for the Courses. The Make-up Examination shall be held as per dates notified in the Academic Calendar.

Grade 'X': A student may be awarded grade "X" if he/she has attendance $\geq 85\%$ and has done exceptionally well in a course with the CIE being greater than or equal to 60% and has attended but not done well in the SEE and it is observed that the student would get an overall "F" grade in that course. A student who is awarded grade "X" would be permitted to write make-up SEE conducted as per the announced schedule. Based on the performance in this make-up SEE, the "X" grade would be converted to a regular letter grade. Grade "X" is awarded only if the student has attended the SEE.

Fast Track semester: The Fast Track semester is provided for facilitating slow learners and failed students. All courses may not be offered in the Fast Track semester. It is the discretion of the Department/College to offer the courses based on the availability of resources. The student has to pay a special fee prescribed by the College (displayed in the Exam section) to register for a course in the Fast Track semester. The Fast Track semester is provided to help the student to avoid losing an academic year.

The Fast Track Semester is optional; it is for the student to make best use of the opportunity. Fast Track semester is a special semester and the student cannot demand it as a matter of right.

A student is permitted to register for a maximum of **16 credits**. With special permission from Principal, the number of credits can be increased. A student has to choose those courses which are offered by the Institution in a given Fast Track Semester.

Note the following points:

1. The registration for fast track semester starts immediately after Make-up results of the Even semester.
2. Maximum Number of "F" Grades that can be carried at the end of any academic year is **four** only.

❖ **Grade Point Averages**

The credit index can be used for calculating the Semester Grade Point Average (SGPA) and the Cumulative Grade Point Average (CGPA), both of which being important performance indices of the student. While SGPA is equal to the credit index for a semester divided by the total number of credits registered by the student in that semester, CGPA gives the sum total of credit indices of all the previous semesters divided by the total number of credits registered in all these semesters. The SGPA and CGPA will be computed as shown:

Semester Grade Point Average (SGPA)

$$\text{SGPA (S}_i\text{)} = \frac{\sum(\text{C}_i \times \text{G}_i)}{\sum \text{C}_i}$$

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.

Cumulative Grade Point Average (CGPA)

$$\text{CGPA} = \frac{\sum(\text{C}_i \times \text{S}_i)}{\sum \text{C}_i}$$

where S_i is the SGPA of the i^{th} semester and C_i is the total number of credits in that semester. The SGPA and CGPA shall be rounded off to 2 decimal points and reported in the transcripts.

Illustration for Computation of SGPA and CGPA

Semester	Course	Credits Registered	Grade	Earned Credits	Grade Points	Credit Point	SGPA	CGPA
						(Credit x Grade Points)		
1	Course 11	4	A	4	8	4 x 8= 32		
	Course 12	4	B	4	7	4 x 7= 28		
	Course 13	4	O	4	10	4 x10= 40		
	Course 14	4	C	4	6	4 x 6= 24		
	Course 15	4	D	4	5	4 x 5= 20		
	Course 16	1.5	C	1.5	6	1.5 x 6= 9		
	Course 17	1.5	A	1.5	8	1.5 x 8= 12		
	Course 18	1	A	1	8	1 x 8= 8		
	Course 19	1	S	1	9	1 x 9= 9		
	Total	25			25			
2	Course 21	4	A	4	8	4x8 =32		
	Course 22	4	C	4	6	4x6 =24		
	Course 23	4	B	4	7	4x7 =28		
	Course 24	4	O	4	10	4x10= 40		
	Course 25	4	F	0	0	4x0=0		
	Course 26	1.5	C	1.5	6	1.5x6=9		
	Course	1.5	O	1.5	10	1.5 x 10=		

	27					15		
	Course 28	1	O	1	10	$1.5 \times 10 = 15$		
	Course 29	1	A	1	8	$1 \times 8 = 8$		
	Total	25		21		163	$\frac{163}{25} = 6.52$	$\frac{345}{50} = 6.90$
Fast Track (After passing failed subject)	Course X 25	4	D	4	5	$4 \times 5 = 20$		
	Total	4		4		20	$\frac{20}{4} = 5$	$\frac{365}{50} = 7.3$

CGPA is calculated based on credits of the total courses registered. Hence, the CGPA will be less for the first attempt but will improve once the student clears the course.

❖ Grade Points Scale (Absolute Grading)

The College has adopted the **Absolute grading system**. Depending on the letter grades assigned, a student earns certain grade points. As the grading system can have different grade points, like 5, 8 and 10, more number of points in the scale, will be necessary to provide a better resolution in the performance assessment. The Colleges follow the 10-point grading system, as given in the Table below.

Grade	GPA	Marks	Performance
S+	10	90 to 100	Outstanding
S	9	80 to 89	Excellent
A	8	70 to 79	Very Good
B	7	60 to 69	Good
C	6	50 to 59	Above Average
D	5	45 to 49	Average
E	4	40 to 44	Poor
F	0	0 to 39	Fail
NP	0	0 to 39	NP
PP	0	40 to 100	PP

Passing Standards using Absolute Grading (B.E.)

Evaluation Method	Passing
Continuous Internal Evaluation (Theory)	Score: 40%
Continuous Internal Evaluation (Lab)	Score: 50%
Semester End Examination (Both Theory & Lab)	Score: 40%

❖ Award of Class

This is done to provide equivalence of these averages, namely SGPA and CGPA with the percentages and/or Class awarded as in the conventional system of declaring the results of University examinations.

CGPA	Equivalent to
≥ 7.7500 and ≤ 10.0000	First Class With Distinction
≥ 6.7500 and < 7.7500	First Class
≥ 5.7500 and < 6.7500	Second Class
≥ 5.0000 and < 5.7500	Pass
≥ 0.0000 and < 5.0000	Fail

❖ Termination from the Programme:

A student shall be required to withdraw from the programme and leave the College on the following grounds:

1. Failure (getting F Grade) and not passing a Course to earn credits for the same, in spite of **five attempts**.
2. Failure to secure a CGPA ≥ 5.00 on **three** consecutive occasions to lead the student being asked to discontinue the programme and leave the College (However, failure to secure a CGPA ≥ 5.00 at the end of any semester for the first time, to attract warning before approval of the student to continue in the following semester).
3. Absence from classes for more than **six weeks** at a time in a semester **without leave of absence** being granted by competent authorities.
4. Failure to meet the **standards of discipline** as prescribed by the College from time to time.
5. The admission of a student to the programme may be terminated and the student asked to leave the institute if the student secures a **CGPA < 5 on three consecutive occasions**.
6. The student admitted to 1st year B.E/ (B.Arch.) shall complete the course within a period of eight academic years (ten academic years for B.Arch) from the date of first admission, failing which he/she has to discontinue the course.
7. The students admitted under lateral entry scheme (2nd Year B.E) shall complete the course within a period of six academic years from the date of first admission, failing which he/she has to discontinue the course.