



## Rules for Grading System and Calculation of SGPA and CGPA from AY 2023-24

As per decision made by Board of Examinations and approved by Academic Council, following rules and regulations are implemented for Grading system and Calculation of SGPA and CGPA for BTech and MTech courses from AY 2023-24 at the institute.

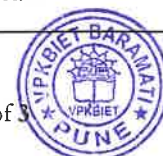
### A. Grading System

1. For every credit course taken by a student, a grade point is assigned based on student's combined performance in all the evaluation schemes. The academic performance shall be graded on a ten-point scale as per guidelines given below. The letter grades and their equivalent grade points are listed in the table 1.

**Table 1 The Scheme for Grading**

Marks Obtained in %	Letter Grade	Assigned Grade point	Performance
90 to 100	O	10	Outstanding
80 to 89.9	A+	09	Excellent
70 to 79.9	A	08	Very Good
60 to 69.9	B+	07	Good
50 to 59.9	B	06	Above Average
45 to 49.9	C	05	Average
40 to 44.9	P	04	Pass
<40	FF	00	Fail due to poor performance
-	FX	00	Fail due to poor attendance
-	XX	00	Fail due to disciplinary action
-	AC	-	Non-credit course Assignment Completed
-	NC	-	Non-credit course Assignment Not Completed

2. The letter Grades awarded to a student in all the courses shall be converted into performance indices called Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA), Procedure for calculating the grade points is given below. An 'O' grade stands for outstanding achievement relative to the class. The 'C' grade stands for average performance and it refers to 'average' as per course teacher's expectations in a holistic sense and is not based on the class average. The 'P' grade stands for marginal performance and is the minimum passing grade.
3. The 'FF' grade denotes poor performance. A student who obtains FF grade in any course shall either appear for summer Term examination or re-register for the course/s, till a passing grade is obtained. The 'FX' grade denotes failure of students due to shortage of minimum





attendance and not satisfactory performance in laboratory courses. The 'XX' grade denotes failure of students due to disciplinary action. A student who obtains 'FX or XX' grade in any course must necessarily reregister for the course in the subsequent semesters until a passing grade is obtained.

- The concerned faculty shall use Continues Activity Assessment (CAA), ISE and ESE marks to decide the total marks. The marks obtained shall be up-to two decimal places and shall not be rounded. The total of CAA, ISE, and ESE will be computed and rounded to the nearest higher integer.
- Grace Marks:** The examinee shall be given the benefit of grace marks only for passing in each head of passing, (Theory/Practical/Oral) in External or Internal examinations as follows:

Total Marks of Head of Passing	Grace Marks Upto	Total Marks of Head of Passing	Grace Marks Upto
0-50	2	150-200	5
51-100	3	200-250	6
101-150	4	251-300	7

- The benefit of such gracing marks given in different heads of passing shall not exceed 1% of the aggregate marks in that examination.
- Grace marks will be given to obtain passing grade in maximum of three head of passing.
- If a student has failed in more than three heads of passing, no grace marks will be applicable in any course.
- The grace marks shall be applicable only to regular students and shall not be applicable to any re-registered or backlog student in a course.
- FF grade shall be assigned to a student in a theory course in the following cases;
  - Sum of marks obtained by the student in CAA, ISE, ESE, and grace (if any) is less than 40%.
  - Marks obtained in ESE are less than 40%.
- FF grade shall be assigned in a laboratory course to a student who shall get less than 40% marks in laboratory ESE. FX grade shall be assigned in a laboratory course to a student having attendance less than minimum attendance required.
- If a student gets FX or XX grade in any of the course/s, he/she will be detained in that course/s and he/she is not allowed to appear for ESE for that course/s. The student is required





to re-register for the course by paying fees in the subsequent semesters (Summer Term) until a passing grade is obtained.

13. The student must earn 50% credit for promotion to the higher class.

## B. Compilation of Grades

### 1. Calculation of Semester Grade Point Average (SGPA)

- The Semester Grade Point Average (SGPA) for each semester will be calculated only for those students who have passed all the subjects of that semester.
- SGPA is the ratio of the sum of the products of the number of credits of a course ( $C_i$ ) and the grade points scored in that course ( $GP_i$ ), taken for all the courses, to the sum of the number of credits of all the courses ( $n$ ) in the semester.

$$SGPA = \frac{\sum_i^n C_i * GP_i}{\sum_i^n C_i}$$

Where  $n$  is the number of courses in that semester.

### 2. Calculation of Cumulative Grade Point Average (CGPA)

- Cumulative Grade Point Average (CGPA) up to any semester will be calculated only for those students who have passed all the subjects up to that semester.
- The CGPA will be calculated as follows:

$$CGPA = \frac{\sum_i^n C_i * GP_i}{\sum_i^n C_i}$$

Where  $C_i$  is the credit for the  $i^{\text{th}}$  course and  $GP_i$  is the grade point obtained by the student for the  $i^{\text{th}}$  course and  $n$  is the total number of courses up to that semester.

- The CGPA is not average of SGPA. The SGPA & CGPA are calculated only after ESE & Make up Examination and will be rounded up to second decimal place.

  
Controller of Examination

  
Dean, Academics

  
Principal

