GRADES, GRADEPOINTS, GPA/SGPA/TGPA and CGPA

The correspondence between letter grades and grade points is given in the table below:

Grade	Description	Grade Points
O	Outstanding	10
E	Excellent	9
A+	Very Good	8
A	Good	7
B	Average	6
C	Below Average	5
F	Failed	0
P	Passed	Not allotted
NP	Not passed	Not allotted
X	Not permitted	Not allotted

The Grade Point Average (GPA), Semester Grade Point Average (SGPA) or Trimester Grade Point Average (TGPA) is calculated using the following formula:

$$GPA/SGPA/TGPA = \frac{\sum_i^n GP_i \times NC_i}{\sum_i^n NC_i}$$

Where GP_i = Grade points earned in the ith course

NC_i = Number of credits for the ith course and

n = the number of courses in the semester/trimester

The Cumulative Grade Point Average (CGPA) is calculated using the following formula:

$$CGPA = \frac{\sum_i^n GPA_i \times NSC_i}{\sum_i^n NSC_i}$$

Where GPA_i = Semester or Trimester Grade Point Average of the ith semester

NSC_i = Number of credits for the ith semester/trimester

n = Number of semesters/trimesters completed