MANIPAL UNIVERSITY
JAIPUR

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Calculation of GPA and CGPA

Each letter grade is converted into grade points. These grade points (Gi) are weighted with the number of credits (Ci) assigned to the course. The Grade Point Average (GPA) is the weighted average of Grade Points awarded to a student in a semester. The weighted average GPA of all semesters at any point of time is the Cumulative Grade Point Average (CGPA) at that point of time.

GPA and CGPA calculations can be expressed as:

$$\text{GPA} = \frac{\Sigma (Ci - Gi)}{\Sigma Ci}$$

$$\text{CGPA} = \frac{\Sigma (GPAj \cdot Cj)}{\Sigma Cj}$$

Where:

- n = Number of courses registered
- Ci = Course credits
- Gi = Grade point
- N = Number of semesters

Example of calculation of GPA and CGPA

Courses	Credits	Letter Grade	Grade Points	Ci * Gi
Engg. Mathematics-I	4	A	9	36
Mechanics of Solids	4	A+	10	40
Basic Electronics	4	B	8	32
Mechanical Engg. Science	4	C	7	28
Engineering Physics	4	B	8	32
Comm. Skills in English	3	A	9	27
Basic Workshop Practice	1	A	9	9
Engineering Physics Lab	1	B	8	8

Credits = 25 **GPA = (36+40+32+28+32+27+9+8)/25 = 8.48**

Semester-wise GPA Calculation

Semester	Credits Earned	GPA
i	25	8.48
ii	25	8.62
iii	26	8.24
iv	26	8.42

Final CGPA Calculation

Total credits earned = **102**

CGPA= 8.48x25 + 8.62x25 + 8.24x26 + 8.42x26 = 860.66/102 = 8.44

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