GPA Calculation

Semester 1:

Grades scored by a student

Course	C = Credit	Grade	G = Grade value	Credit Points C x G
ENGINEEERING MATHEMATICS – I	4	A+	10	40
ENGINEERING PHYSICS	3	A	9	27
MECHANICS OF SOLIDS	3	B	8	24
BASIC MECHANICAL ENGINEERING	3	C	7	21
COMMUNICATION SKILLS & HUMAN VALUES	2	D	6	12
BASIC ELECTRONICS	3	E	5	15
PHYSICS LAB	1	F	0	0
WORKSHOP PRACTICE	1	I	0	0
ENGINEERING GRAPHICS – I	2	A	9	18
TOTAL	**22**			**157**

GPA Calculation

Semester 1:

Course	C = Credit	Grade	G = Grade value	Credit Points C x G
TOTAL	$\sum_1^n C_i$ = 22			$\sum_1^n C_i G_i$ = 157

$$GPA_1 = \frac{\sum_1^n C_i G_i}{\sum_1^n C_i} = \frac{C_1G_1 + C_2G_2 \ldots + C_9G_9}{C_1 + C_2 + \ldots C_9} = \frac{157}{22} = 7.14$$

GPA Calculation

Semester 2:

Grades scored by a student

Course	C = Credit	Grade	G = Grade value	Credit Points C x G
ENGINEEERING MATHEMATICS – II	4	A	9	36
ENGINEERING CHEMISTRY	3	A+	10	30
PROBLEM SOLVING USING COMPUTERS	3	C	7	21
BIOLOGY FOR ENGINEERS	3	A	9	27
ENVIRONMENTAL STUDIES	2	E	5	10
BASIC ELECTRICAL ENGINEERING	3	D	6	18
CHEMISTRY LAB	1	A	9	9
PSUC LAB	1	B	8	8
ENGINEERING GRAPHICS – II	2	A	9	18
TOTAL	**22**			**177**

GPA Calculation

Semester 2:

Course	C = Credit	Grade	G = Grade value	Credit Points C x G
TOTAL	$\sum_1^n C_i$ = 22			$\sum_1^n C_i G_i$ = 177

$$GPA_2 = \frac{\sum_1^n C_i G_i}{\sum_1^n C_i} = \frac{C_1G_1 + C_2G_2 \ldots + C_9G_9}{C_1 + C_2 + \ldots C_9} = \frac{177}{22} = 8.05$$

CGPA Calculation

$$CGPA = \frac{\sum_{1}^{N} C_i G_i}{\sum_{1}^{N} C_i} = \frac{\left(\sum_{1}^{n} C_i G_i\right)_{I\ SEM} + \left(\sum_{1}^{n} C_i G_i\right)_{II\ SEM}}{\left(\sum_{1}^{n} C_i\right)_{I\ SEM} + \left(\sum_{1}^{n} C_i\right)_{II\ SEM}}$$

$$CGPA = \frac{C_1G_1 + C_2G_2 \ldots + C_{18}G_{18}}{C_1 + C_2 + \ldots C_{18}} = \frac{157 + 177}{22 + 22} = 7.59$$

B.Tech students admitted in and after 2018-19, need to exclude grade point and credits of open elective courses for the calculation of GPA and CGPA.