

भारतीय प्रौद्योगिकी संस्थान पटना Indian Institute of Technology Patna

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TO WHOM IT MAY CONCERN

Calculation of Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA)

The letter Grades awarded to a student in all the courses (except audit courses) shall be converted into a semester and cumulative performance index called the Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA), to be calculated as follows:

$$S.G.P.A = \frac{\sum_{i=1}^{n} C_i x P_i}{\sum_{i=1}^{n} C_i}$$

Where,

 C_i = Number of credits of the *i* course of a semester for which SGPA is to be calculated P_i = Grade point obtained in *i* course

i = 1,...... n, represent the number of courses in which a student is registered in the concerned semester.

$$C.G.P.A = \frac{\sum_{i=1}^{m} C_i x P_i}{\sum_{i=1}^{m} C_i}$$

Where,

 C_i = Number of credits of the *i* course, up to the semester for which CGPA is to be calculated. The CGPA shall be calculated taking all the subjects registered including a course in which 'F' grade is awarded till date starting from the beginning but if the student has cleared a course, in which the student had backlog, the new grade will replace the old grade while calculating CGPA.

 P_i = Grade point earned in / course.

 $i = 1, \dots, m$; represent the number of courses in which a student was registered till date.

Conversion of CGPA to Percentage

The conversion formula for CGPA to equivalent percentage is as follows:

CGPA	Equivalent percentage of marks
4.00 ≤ CGPA ≤ 9.00	10 * CGPA + 5.00
CGPA > 9.00	95.00

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