



भारतीय प्रौद्योगिकी संस्थान मुंबई
INDIAN INSTITUTE OF TECHNOLOGY BOMBAY
पवई / Powai, मुंबई / Mumbai 400 076



Date of Issue : 11-January-2022 , liable to change since student has not yet graduated

Roll Number: 200050129 Academic Unit: Computer Science and Engineering
Name of the Student: Sarthak Mittal Joining Month & Year: November 2020
Programme: Bachelor of Technology (B.Tech.)

Code	Name	Credits	Tag	Grade/ Marks	Code	Name	Credits	Tag	Grade/ Marks
Academic Year: 2020 - 2021, Term: Semester Autumn									
CH 105	Organic & Inorganic Chemistry	4.0	MA	AP	MA 111	Calculus II	4.0	MA	AA
CH 107	Physical Chemistry	4.0	MA	AA	NOCS01	NCC/NSS/NSO	0.0	MA	PP
CS 101	Computer Programming and Utilization	6.0	MA	AA	PH 107	Quantum Physics and Application	6.0	MA	AB
MA 109	Calculus I	4.0	MA	AA					
SPI=9.79/10					CPI=9.79/10				
Academic Year: 2020 - 2021, Term: Semester Spring									
BB 101	Biology	6.0	MA	AA	MA 108	Differential Equations	4.0	MA	BB
CS 152	Abstractions and Paradigms for Programming	6.0	MA	AA	ME 119	Engineering Graphics & Drawing	5.0	MA	AA
CS 154	Programming Paradigms Laboratory	3.0	MA	AA	NOCS02	NCC/NSS/NSO	0.0	MA	PP
MA 106	Linear Algebra	4.0	MA	AA	PH 108	Basics of Electricity & Magnetism	6.0	MA	AA
SPI=9.76/10					CPI=9.77/10				
Academic Year: 2021 - 2022, Term: Semester Autumn									
CS 207	Discrete Structures	6.0	MA	BC	CS 293	Data Structures and Algorithms Lab	3.0	MA	AA
CS 213	Data Structures and Algorithms	6.0	MA	AB	EE 101	Introduction to Electrical and Electronics Circuits	8.0	MA	AA
CS 215	Data Analysis and Interpretation	6.0	MA	BB	GC 101	Gender in the workplace	0.0	MA	PP
CS 251	Software Systems Lab	8.0	MA	AA	SI 427	Probability I	8.0	MI	AA
SPI=9.03/10					CPI=9.49/10				
Mandatory Course Credits (MA)		= 99.0			Overall CPI		= 9.49/10		
Overall Credits Completed		= 107.0							
Overall Grade Points		= 1020.0							

Current Status

The academic requirements for the degree are yet to be completed.

CONTINUED



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Name of the Student: Sarthak Mittal

Roll Number: 200050129

General Information

The medium of instruction at the Institute is English.

Course credits and grade: Each course is associated with credits which are an indicator of its relative weight in calculating the academic performance. A two-letter grade is awarded to students on the basis of their performance in examinations and assignments of a specific course. The letter grades have numerical equivalents on a 0-10 scale as given below.

Letter Grade	AP	AA	AB	BB	BC	CC	CD	DD	FF	FR	W	DX	PP	NP	AU
Numerical Equivalent	10	10	9	8	7	6	5	4	0	0	—	—	—	—	—

FF: Fail, FR: Fail and repeat, W: Withdrawn, DX: Insufficient attendance, AU: Satisfactory performance in an audit course, PP: Pass, NP: Not Pass. The minimum passing grade in a course is DD. The grade AP is awarded to students with exceptional performance in core courses of a programme. Numerical equivalents of letter grades are referred to as grade points.

The numerical grade points are not convertible into marks or percentages.

Performance Indicators: The performance of a student in a semester is given by a number called the Semester Performance Index (SPI), which is the weighted average of the earned grade points in the courses during the semester.

If a student has courses with credits C_1, C_2, \dots, C_n , with grade points of G_1, G_2, \dots, G_n respectively, then

Semester Credits = $C_1 + C_2 + \dots + C_n$	Semester Grade Points = $C_1 G_1 + C_2 G_2 + \dots + C_n G_n$	SPI = Semester Grade Points ÷ Semester Credits
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Cumulative Performance Index (CPI) is the weighted average of the grade points in the courses in all semesters. The indices SPI and CPI are calculated upto two decimal places.

Courses are tagged as MA: Mandatory (Core/Elective), MI: Minor, HO: Honours, AL: Additional Learning, AU: Audit

- Each degree programme has mandatory credits consisting of core courses, elective courses, and non credit courses. These courses are tagged as MA.
- For calculation of SPI and CPI, grades obtained only in mandatory courses (MA) are considered.
- Students can supplement the learning experience by crediting additional courses. Credits earned in these courses, when appropriate, can earn additional credentials either in the form of "Honours" (HO) in the chosen discipline or "Minor" (MI) in another discipline or both.
- "Honours" is not indicative of proficiency, and can be earned by completing the additional prescribed set of advanced core and elective courses in the chosen discipline. "Minor" can be earned by completing the prescribed set of courses in a discipline other than the chosen discipline. Additional courses that are not used for earning "Honours" or "Minor" are tagged as "Additional Learning" (AL).
- The AU is awarded based on satisfactory attendance and fulfilling the minimum requirements as set by the course instructor. It carries no grade points and does not figure in SPI or CPI calculations.
- PP or NP is awarded in some credit courses that are not earmarked with a letter grade. Correspondingly, PP/NP does not carry a grade point.
- O-IITB is/are the Course(s) completed by a student outside IIT Bombay (NPTEL/ Swayam). These course(s) contribute towards the completion of credits for a degree requirement. However, grades/marks earned for such course(s) is/are not considered for SPI / CPI calculation.

The Institute does not award any class or division. Notionally, the CPI may be multiplied by a factor of 10 to obtain a numerical percentage.

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END OF TRANSCRIPT

Roll Number: 200050129