

भारतीय प्रौद्योगिकी संस्थान मुंबई INDIAN INSTITUTE OF TECHNOLOGY BOMBAY

पवई / Powai, मुंबई / Mumbai 400 076



Date of Issue : 11-February-2020 , liable to change since student has not yet graduated

Roll Number:

180050069

Academic Unit:

Computer Science and Engineering

Name of the Student:

Niraj Rajesh Mahajan

Joining Month & Year: July 2018

Programme:

Bachelor of Technology (B.Tech.)

Code	Name	Credit	s Tag	Grade	Code	Name	Credits	Tag	Grade
	Ac	cademic Ye	ar: 2	018 - 2	019, Ter	m: Semester Autumn			
~U 105	Organic & Inorganic Chemistry	4.0		AB		Workshop Practice	4.0		AA
	Physical Chemistry	4.0		AA		NCC/NSS/NSO	0.0	MA	PP
	Computer Programming and Utilization	6.0		AA	PH 107	Quantum Physics and application	6.0	MA	AB
	Calculus	8.0		AA		Physics Lab	3.0	MA	AA
SPI=9.					CPI=9.	71/10			
	Ac	cademic Ye	ar: 2	018 - 2	019, Teri	m: Semester Spring			
R 101	Biology	6.0		ВВ		Differential Equations	4.0	MA	BB
	Chemistry Lab	3.0		AA		Engineering Graphics & Drawing	5.0		AA
	Abstractions and Paradigms for Program		MA	AA		NCC/NSS/NSO	0.0	MA	
	Programming Paradigms Laboratory	3.0	MA	AA	PH 108	Basics of Electricity & Magnetism	6.0	MA	AB
	Linear Algebra	4.0	MA	AB					
SPI=9.	19/10				CPI=9.	44/10			
	Ad	cademic Ye	ar: 2	019 - 2	020, Term	n: Semester Autumn			
CS 207	Discrete Structures	6.0	MA	ВС	EE 101	Introduction to Electrical and Electronic	s 8.0	MA	BB
CS 213	Data Structures and Algorithms	6.0	MA	BC		Circuits	3.0	MA	A D
CS 215	Data Analysis and Interpretation	6.0	MA	BC	ES 200	Environmental Studies: Science and	3.0	MA	AD
CS 251	Software Systems Lab	8.0	MA	AA	UC 200	Engineering Environmental Studies	3.0	MA	AB
CS 293	Data Structures and Algorithms Lab	3.0	MA	AA		Marketing Management	6.0	MI	DD
SPI=8.	23/10				CPI=8.	99/10			
Mandat	tory Course Credits (MA)		= 115	.0	Overall	CPI	=	8.99/	10
	ll Credits Completed		= 121	.0					
	ll Grade Points		= 105	8.0					

Current Status

The academic requirements for the degree are yet to be completed. Signature & Seal of Transcript Issuing Authority:

Joint/Assistant Registrar (Academic), IIT Bombay

Date सहायक कुल्ला (शैक्षिक) St. &simumb Registrar (Academ - भारतीय-मीसोरिंगकी संस्थान, मुन्द (Adian Institute of Technology, Bond

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INDIAN INSTITUTE OF TECHNOLOGY BOMBAY

पवर्ड / Powai, मुंबई / Mumbai 400 076



Name of the Student: Niraj Rajesh Mahajan

Roll Number: 180050069

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

Letter Grade		laa .	АВ	вв	вс	СС	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.

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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 C₁, C₂,..., C_n, with grade points of G₁, G₂,..., G_n respectively, then

SPI = Semester Grade Points ÷ Semester Credits Semester Grade Points = $C_1G_1 + C_2G_2 + ... + C_nG_n$ Semester Credits = $C_1 + C_2 + ... + C_n$

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" (H0) 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.

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. The veracity of this document can be ascertained by using the verification ticket number in the URL given at the bottom of this page.

Roll Number: 180050069 END OF TRANSCRIPT