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

Official Transcript

Date of Issue : 02-January-2019 , liable to change since student has not yet graduated

Roll Number:	170050035	Academic Unit:	Computer Science and Engineering
Name of the Student:	Ansh Khurana	Joining Month & Year:	July 2017
Programme:	Bachelor of Technology (B.Tech.)		

Code	Name	Credits	Tag	Grade	Code	Name	Credits	Tag	Grade
	Academic Year: 2017 – 2018, Term: Semester Autumn								
CH 105	Organic & Inorganic Chemistry	4.0	MA	AA	ME 113	Workshop Practice	4.0	MA	AA
CH 107	Physical Chemistry	4.0	MA	AP	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	AA
MA 105	Calculus	8.0	MA	AA	PH 117	Physics Lab	3.0	MA	AA
SPI= 10.00/10					CPI= 10.00/10				
	Academic Year: 2017 – 2018, Term: Semester Spring								
BB 101	Biology	6.0	MA	AA	MA 108	Differential Equations	4.0	MA	AB
CH 117	Chemistry Lab	3.0	MA	AB	ME 119	Engineering Graphics & Drawing	5.0	MA	AA
CS 152	Abstractions and Paradigms for Programming	6.0	MA	BB	NOCS02	NCC/NSS/NSO	0.0	MA	PP
CS 154	Programming Paradigms Laboratory	3.0	MA	AA	PH 108	Basics of Electricity & Magnetism	6.0	MA	AA
MA 106	Linear Algebra	4.0	MA	AA					
SPI= 9.49/10					CPI= 9.74/10				
	Academic Year: 2018 – 2019, Term: Semester Autumn								
CS 207	Discrete Structures	6.0	MA	BB	CS 293	Data Structures and Alogrithms Lab	3.0	MA	BB
CS 213	Data Structures and Algorithms	6.0	MA	AA	EE 101	Introduction to Electrical and Electronics Circuits	8.0	MA	AA
CS 215	Data Analysis and Interpretation	6.0	MA	AA					
CS 251	Software Systems Lab	8.0	MA	AA	SI 417	Introduction to Probability Theory	8.0	MI	AB
SPI= 9.51/10					CPI= 9.66/10				

Mandatory Course Credits (MA)	= 109.0	Overall CPI		= 9.66/10
Overall Credits Completed	= 117.0			
Overall Grade Points	= 1125.0			

Current Status

The academic requirements for the degree are not yet complete.

Signature & Seal of Transcript Issuing Authority:
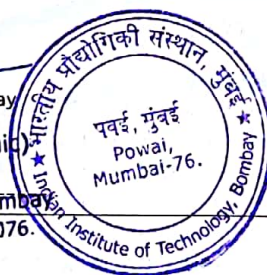
Joint/Assistant Registrar (Academic), IIT Bombay
Date: 02-January-2019 सहायक कुलसचिव (शैक्षिक)
Place: Mumbai Sr. Assistant Registrar (Academic)
भारतीय प्रौद्योगिकी संस्थान, मुंबई
Indian Institute of Technology, Bombay
पवई, मुंबई /Powai, Mumbai - 400 076.

पवई, मुंबई
Powai,
Mumbai-76.

CONTINUED

Name of the Student: Ansh Khurana	Roll Number: 170050035

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 $C_1, C_2,...., C_n$, with grade points of $G_1, G_2,...., G_n$ respectively, then

$$\text{Semester Credits} = C_1 + C_2 + ... + C_n. \text{ Semester Grade Points} = C_1 G_1 + C_2 G_2 + ... + C_n G_n. \text{ SPI} = \text{Semester Grade Points} \div \text{Semester Credits}.$$

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.

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 for students graduating in the 54th Annual Convocation (2016) onwards.

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

END OF TRANSCRIPT	Roll Number: 170050035