



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



Hall Number: 155030632  
Name of the Student: Sagar Dhanraj  
Programme: Master of Science (2 yr M.Sc)

Academic (HST):  
Joining Month & Year:

Chemistry  
July 2019

Code	Name	Credits	Tag	Grade	Code	Name	Credits	Tag	Grade
Academic Year: 2019 - 2020, Term: Semester Autumn									
CH 401	Organic Reactions	5.0	NA	AA	CH 417	Organic Chemistry Lab II	4.0	NA	AA
CH 403	Electrochemistry of Solutions and Interfaces	5.0	NA	AA	CH 425	Chemical Bond and Molecular Geometry	5.0	NA	AA
CH 405	Advanced Transition Metal Chemistry	5.0	NA	AB	CH 433	Physical Chemistry Lab II	4.0	NA	AA
CH 415	Inorganic Chemistry Lab II	4.0	NA	AA	CH 481	Chemistry and Computers	4.0	NA	AA
SPI=9.85/10					CPI=9.85/10				
Academic Year: 2019 - 2020, Term: Semester Spring									
CH 404	Physical Organic Chemistry	5.0	NA	AB	CH 432	Inorganic Chemistry Lab III	4.0	NA	FF
CH 408	Molecular Energetics and Dynamics	5.0	NA	AB	CH 438	Chemistry of Main Group Elements	5.0	NA	AB
CH 410	Bio-Inorganic Chemistry	5.0	NA	AA	CH 442	Molecular Spectroscopy	5.0	NA	AA
CH 418	Organic Chemistry Lab. III	4.0	NA	FF					
SPI=9.44/10					CPI=9.85/10				
Academic Year: 2020 - 2021, Term: Semester Autumn									
CH 507	Methods in Organic Synthesis	5.0	NA	BC	CH 504	Biophysical Chemistry	5.0	NA	AB
CH 521	Interpretative Molecular Spectroscopy	5.0	NA	AA	CH 588	Organic Synthesis	5.0	NA	AD
CH 547	Organometallic Chemistry	5.0	NA	AA	CH 593	Project Stage I	12.0	NA	AD
SPI=9.98/10					CPI=9.42/10				
Academic Year: 2020 - 2021, Term: Semester Spring									
CH 504	Computational Chemistry	5.0	NA	AA	CH 586	Structure and Properties of Materials	5.0	NA	AA
CH 578	Topics in Inorganic Chemistry II	5.0	NA	AB	CH 594	Project Stage II	18.0	NA	AA
SPI=9.83/10					CPI=9.51/10				
Mandatory Course Credits (NA)		= 145.0			Overall CPI		= 9.52/10		
Overall Credits Completed		= 145.0							
Overall Grade Points		= 1381.0							

**Final Result**

The student has completed the academic requirements of the programme in the month of June 2021 for the award of Master of Science in Chemistry

Signature & Seal of Transcript Issuing Authority:

  
Joint/Assistant Registrar (Academic), IIT Bombay  
Date: 03-August-2021  
Place: Mumbai

पदाधिकारी कक्षाधिकारी (गैर-विश्व)  
Assistant Registrar (Academic)  
भारतीय प्रौद्योगिकी संस्थान, मुंबई  
Indian Institute of Technology, Bombay  
पवई, मुंबई / Powai, Mumbai - 400 076



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पवई / Powai, मुंबई / Mumbai 400 076



Name of the Student: Sagar Dhariaj

Roll Number: 195828832

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 4.0-10 scale as given below.

Letter Grade	AP	AA	AB	BB	BC	CC	CD	DD	DF	DB	W	DX	FP	NP	AJ
Numerical Equivalent	10	9	8	7	6	5	4	3	2	1	-	-	-	-	-

FF: Fail; FE: Fail and repeat; W: Withdrawn; DX: Insufficient attendance; AJ: Satisfactory performance in an audit course; FP: 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

$\text{Semester Credits} = C_1 + C_2 + \dots + C_n$	$\text{Semester Grade Points} = C_1G_1 + C_2G_2 + \dots + C_nG_n$	$\text{SPI} = \text{Semester Grade Points} / \text{Semester Credits}$
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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, AJ: 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 AJ 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.
- FP or NP is awarded in some credit courses that are not examined with a letter grade. Correspondingly, FP/NP does not carry a grade point.

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

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END OF TRANSCRIPT

Roll Number: 195828832