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

Official Transcript

Roll Number:	13D100026	Academic Unit:	Mechanical Engineering
Name of the Student:	ADITI TANEJA	Discipline/Specialization:	Thermal & Fluids Engineering
Programme:	Dual Degree (Dual Degree Programme)	Joining Month & Year:	July 2013

Code	Name	Credits	Tag	Grade	Code	Name	Credits	Tag	Grade
Academic Year: 2013 - 2014, Term: Semester Autumn									
CH 105	Organic & Inorganic Chemistry	4.0	MA	CC	ME 119	Engineering Graphics & Drawing	5.0	MA	AB
CH 107	Physical Chemistry	4.0	MA	BB	NOCS01	NCC/NSS/NSO	0.0	MA	PP
CS 101	Computer Programming and Utilization	6.0	MA	AB	PH 107	Quantum Physics and application	6.0	MA	BB
MA 105	Calculus	8.0	MA	CD	PH 117	Physics Lab	3.0	MA	AA
ME 102	Data Analysis and Interpretation	6.0	MA	BC					
SPI=7.50/10					CPI=7.50/10				
Academic Year: 2013 - 2014, Term: Semester Spring									
BB 101	Biology	6.0	MA	BB	MA 108	Differential Equations	4.0	MA	AB
CE 102	Engineering Mechanics	6.0	MA	BB	ME 113	Workshop Practice	4.0	MA	AA
CH 117	Chemistry Lab	3.0	MA	AB	NOCS02	NCC/NSS/NSO	0.0	MA	PP
MA 106	Linear Algebra	4.0	MA	BC	PH 108	Basics of Electricity & Magnetism	6.0	MA	BB
SPI=8.33/10					CPI=7.87/10				
Academic Year: 2014 - 2015, Term: Semester Autumn									
EE 101	Introduction to Electrical and Electronics Circuits	8.0	MA	AA	ME 209	Thermodynamics	6.0	MA	AB
HS 101	Economics	6.0	MA	AB	ME 219	Fluid Mechanics	8.0	MA	AA
ME 201	Solid Mechanics	6.0	MA	BC	MM 207	Engineering Metallurgy	6.0	MA	BB
SPI=8.95/10					CPI=8.24/10				
Academic Year: 2014 - 2015, Term: Semester Spring									
EE 207	Electronic Devices & Circuits	6.0	MI	DD	ME 213	Manufacturing Practice Lab	5.0	MA	AB
MA 214	Introduction to Numerical Analysis	8.0	MA	AP	ME 218	Solid Mechanics Lab	3.0	MA	AB
ME 202	Strength of Materials	6.0	MA	AB	ME 224	Fluid Mechanics Lab	3.0	MA	AA
ME 206	Manufacturing Processes I	6.0	MA	AB	ME 226	Mechanical Measurements	6.0	MA	AB
SPI=9.30/10					CPI=8.50/10				
Academic Year: 2015 - 2016, Term: Semester Autumn									
EE 221	Digital Electronics	6.0	MI	BB	ME 346	Heat Transfer II	6.0	MA	AA
HS 307	Sociology	6.0	MA	AA	ME 374	Manufacturing Processes Lab	3.0	MA	AB
ME 307	Mechanical Measurements Lab	3.0	MA	AA	ME 617	Rapid Product Development	6.0	MA	AA
ME 311	Microprocessors and Automatic Control	6.0	MA	AA	ME 669	Design for Manufacturing	6.0	AL	AB
ME 338	Manufacturing Processes II	6.0	MA	AB					
SPI=9.75/10					CPI=8.74/10				
Academic Year: 2015 - 2016, Term: Semester Spring									
ES 200	Environmental Studies: Science and Engineering	3.0	MA	BB	ME 316	Kinematics and Dynamics of Machines	6.0	MA	BB
HS 200	Environmental Studies	3.0	MA	AB	ME 370	Kinematics and Dynamics of Machines Lab	3.0	MA	BB
ME 306	Applied Thermodynamics	6.0	MA	BB	ME 372	Heat Transfer and Metrology Lab	3.0	MA	AB
ME 308	Industrial Engineering and Operations Research I	6.0	MA	BB	ME 766	High Performance Scientific Computing	6.0	AL	BB
ME 310	Microprocessors and Automatic Control Lab	3.0	MA	BB					
SPI=8.18/10					CPI=8.66/10				

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Code	Name	Credits	Tag	Grade	Code	Name	Credits	Tag	Grade
Academic Year: 2016 - 2017, Term: Semester Autumn									
AE 425	Software Development Techniques for Engineering and Scientists	6.0	AU	AU	ME 415	Computational Fluid Dynamics and Heat Transfer	6.0	MA	AA
AE 625	Particle Methods for Fluid Flow Simulation	6.0	MA	AA	ME 423	Machine Design	8.0	MA	AB
IE 601	Optimization Techniques	8.0	MI	CD	ME 441	Applied Thermodynamics Lab	3.0	MA	AB
IE 651	Inventory Control and Management Systems	6.0	MA	AB	ME 649	Advanced Manufacturing Processes I	6.0	MA	AA
ME 409	Intelligent Manufacturing Systems Lab	6.0	AL	AA	ME 711	Manufacturing Planning and Control	6.0	MA	AA
SPI=9.59/10					CPI=8.80/10				
Academic Year: 2016 - 2017, Term: Semester Spring									
AE 622	Computing of High Speed Flows	6.0	HO	AA	ME 651	Fluid Dynamics	6.0	MA	AA
AE 706	Computational Fluid Dynamics	6.0	HO	AA	ME 657	Thermal and Fluids Engg Laboratory	6.0	MA	AB
AE 720	Advanced Numerical Methods for Compressible Flows	3.0	AL	AA	ME 663	Advanced Heat Transfer	6.0	MA	BB
CS 213	Data Structures and Algorithms	6.0	MA	AA	ME 757	Galerkin Methods for Fluid Dynamics	6.0	MA	AB
IE 502	Probabilistic Models	6.0	MI	CC					
SPI=9.43/10					CPI=8.89/10				
Academic Year: 2017 - 2018, Term: Semester Project									
ME 593	Dual Degree Project I	30.0	PR	AA					
SPI = 10.00/10					CPI (Coursework) = 8.89/10 CPI (Overall) = 8.99/10				
Academic Year: 2017 - 2018, Term: Semester Autumn									
ME 661	Advanced Thermodynamics & Combustion	6.0	MA	AB	ME 704	Computational Methods in Thermal & Fluid Engg	6.0	HO	AA
ME 678	Fundamentals of Gas Dynamics	6.0	HO	AA	MG 403	Accounting and Finance	6.0	MI	AA
SPI=9.67/10					CPI=8.93/10				
Academic Year: 2017 - 2018, Term: Semester Spring									
CS 419	Introducing to Machine Learning	6.0	MI	AB	MNG616	Corporate Finance - II	4.0	AL	AA
MNG604	Corporate Finance - I	4.0	AL	AA	MNG652	Indian Financial and Business Model	3.0	AL	BC
SPI=0.00/10					CPI=8.93/10				

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Name of the Student: ADITI TANEJA | Roll Number : 13D100026

Code	Name	Credits	Tag	Grade	Code	Name	Credits	Tag	Grade

Academic Year: 2017 - 2018, Term: Semester Summer

ME 594 Dual Degree Project II 42.0 PR AA

SPI = 10.00/10

CPI (Coursework) = 8.93/10
CPI (Overall) = 9.13/10

Mandatory Course Credits (MA+HO)	= 322.0	CPI (Courses)	= 8.85/10
Project Credits (PR)	= 72.0	CPI (Project)	= 10.00/10
Net Mandatory Credits (MA+PR)	= 394.0	CPI (Net)	= 9.13/10
Overall Completed Credits	= 464.0		
Overall Grade Points	= 4151.0		

Final Result

The student has completed the academic requirements of the programme in the month of June 2018 for the award of Bachelor of Technology in Mechanical Engineering and Master of Technology in Mechanical Engineering with Specialization in Thermal & Fluids Engineering

Signature & Seal of Transcript Issuing Authority:

Joint/Assistant Registrar (Academic), IIT Bombay
Date: 02-August-2018
Place: Mumbai

भारतीय प्रौद्योगिकी संस्थान, मुंबई ★ Indian Institute of Technology, Bombay ★ पवई, मुंबई Powai, Mumbai-76.

General Information

The medium of instruction at the Institute is English.

Course credits and grade: Each academic course is associated with a credit which is an indicator of its relative academic 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

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

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END OF TRANSCRIPT | Roll Number: 13D100026