



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



Roll Number: 130010026
Name of the Student: SUHANI GUPTA
Programme: Bachelor of Technology (B.Tech.)

Academic Unit: Aerospace Engineering
Joining Month & Year: July 2013

Code	Name	Credits Tag Grade			Code	Name	Credits Tag Grade		
Academic Year: 2013 - 2014, Term: Semester Autumn									
AE 102	Data Analysis and Interpretation	6.0	MA	BC	MA 105	Calculus	8.0	MA	DD
BB 101	Biology	6.0	MA	BB	ME 113	Workshop Practice	4.0	MA	AB
CH 105	Organic & Inorganic Chemistry	4.0	MA	BC	NOCS01	NCC/NSS/NSO	0.0	MA	PP
CH 107	Physical Chemistry	4.0	MA	BC	PH 107	Quantum Physics and application	6.0	MA	CC
CH 117	Chemistry Lab	3.0	MA	AB					
SPI=6.76/10					CPI=6.76/10				
Academic Year: 2013 - 2014, Term: Semester Spring									
AE 152	Introduction to Aerospace Engg.	6.0	MA	BC	ME 119	Engineering Graphics & Drawing	5.0	MA	AA
CS 101	Computer Programming and Utilization	6.0	MA	BB	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	CC
MA 108	Differential Equations	4.0	MA	AB	PH 117	Physics Lab	3.0	MA	AA
SPI=7.94/10					CPI=7.29/10				
Academic Year: 2014 - 2015, Term: Semester Autumn									
AE 223	Thermodynamics and Propulsion	6.0	MA	AB	HS 101	Economics	6.0	MA	BB
AE 225	Incompressible Fluid Mechanics	6.0	MA	AB	ID 404	Basics of Visual Communications	6.0	AL	AB
AE 227	Solid Mechanics	6.0	MA	AB	MA 207	Differential Equations II	4.0	MA	BC
EE 101	Introduction to Electrical and Electronics Circuits	8.0	MA	AA					
SPI=8.83/10					CPI=7.79/10				
Academic Year: 2014 - 2015, Term: Semester Spring									
AE 234	Aircraft Propulsion	6.0	MA	BB	AE 242	Aerospace Measurements Laboratory	6.0	MA	BC
AE 236	Compressible Fluid Mechanics	6.0	MA	BB	MA 214	Introduction to Numerical Analysis	8.0	MA	AA
AE 238	Aerospace Structural Mechanics	6.0	MA	BB	MG 406	Operations Management	6.0	AL	CD
AE 240	Spaceflight Mechanics	6.0	MA	BB					
SPI=8.26/10					CPI=7.91/10				
Academic Year: 2015 - 2016, Term: Semester Autumn									
AE 305	Flight Mechanics II	6.0	MA	BB	AE 333	Aerodynamics	6.0	MA	AB
AE 310	Engineering Design Optimization	6.0	MA	AB	HS 307	Sociology	6.0	MA	BC
AE 314	Aircraft Structures Laboratory	5.0	MA	AB	MG 401	Marketing Management	6.0	AL	BC
AE 326	Vibrations and Structural Dynamics	6.0	MA	BB					
SPI=8.31/10					CPI=7.99/10				
Academic Year: 2015 - 2016, Term: Semester Spring									
AE 308	Control Theory	6.0	MA	CC	AE 332	Aircraft Design	6.0	MA	AB
AE 312	Aerodynamics Laboratory	5.0	MA	AB	AE 639	Continuum Mechanics	6.0	MA	AB
AE 316	Aircraft Propulsion Laboratory	5.0	MA	AA	MG 402	Human Resource Management	6.0	AL	BC
AE 330	Aerospace Propulsion	6.0	MA	BC	TD 390	Supervised Learning - Study	6.0	MA	AB
SPI=8.38/10					CPI=8.06/10				

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Name of the Student: SUHANI GUPTA

Roll Number : 130010026

Code	Name	Credits	Tag	Grade	Code	Name	Credits	Tag	Grade
Academic Year: 2016 - 2017, Term: Semester Autumn									
AE 407	Modelling and Simulation	6.0	MA	BB	ES 200	Environmental Studies: Science and Engineering	3.0	MA	AB
AE 427	Control Systems Laboratory	5.0	MA	AA	HS 200	Environmental Studies	3.0	MA	AA
AE 429	Aircraft Design lab	5.0	MA	AB	MNG742	Large-Scale Optimization	6.0	MA	AA
AE 443	Introduction to Composite Structures	6.0	MA	AB					
SPI=9.24/10					CPI=8.21/10				
Academic Year: 2016 - 2017, Term: Semester Spring									
AE 410	Navigation and Guidance	6.0	MA	AA	AE 676	Elastic Analysis of Plates and Laminates	6.0	MA	AA
AE 419	Supervised Learning	6.0	MA	AA					
SPI=10.00/10					CPI=8.33/10				
Mandatory Course Credits (MA)					Overall CPI				
Overall Credits Completed					= 8.33/10				
Overall Grade Points									

Final Result

The student has completed the academic requirements of the programme in the month of May 2017 for the award of Bachelor of Technology in Aerospace Engineering
Signature & Seal of Transcript Issuing Authority:

[Signature]



Joint/Assistant Registrar (Academic), IIT Bombay

Date: 01-August-2017

Place: Mumbai

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Roll Number: 130010026

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

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

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 June, 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: 130010026



