



भारतीय प्रौद्योगिकी संस्थान धारवाड
INDIAN INSTITUTE OF TECHNOLOGY DHARWAD
धारवाड / Dharwad, / कर्नाटक / Karnataka 580 011



॥ सा विद्या या विमुक्तये ॥
भारतीय प्रौद्योगिकी संस्थान धारवाड
Indian Institute of Technology Dharwad

Roll Number: 160020019 Academic Unit: Electrical Engineering
Name of the Student: NITESH SINGH Year of Admission: 2016
Programme: Bachelor of Technology (B. Tech.) Year of Graduation: 2020

Code	Name	Credits	Tag	Grade	Code	Name	Credits	Tag	Grade
Academic Year: 2016 – 2017, Term: Semester Autumn									
CH 105	Organic Chemistry and Inorganic Chemistry	4.0	MA	CD	MA 105	Calculus	8.0	MA	AB
CH 107	Physical Chemistry	4.0	MA	BB	NO 101	National Sports Organisation	0.0	MA	PP
CH 117	Chemistry Lab	3.0	MA	AB	PH 107	Quantum Physics	6.0	MA	BB
CS 101	Computer Programming	8.0	MA	BC					
SPI=7.73/10					CPI=7.73/10				
Academic Year: 2016 – 2017, Term: Semester Spring									
BB 101	Biology	6.0	MA	BC	ME 119	Engineering Graphics/Workshop Practice	8.0	MA	AB
EE 101	Introduction to Electrical and Electronic Circuits	8.0	MA	AB	NO 102	National Sports Organisation	0.0	MA	PP
MA 106	Linear Algebra	4.0	MA	BB	PH 108	Electricity and Magnetism	6.0	MA	BB
MA 108	Ordinary Differential Equations	4.0	MA	AB	PH 117	Physics Lab	3.0	MA	AA
SPI=8.51/10					CPI=8.15/10				
Academic Year: 2017 – 2018, Term: Semester Autumn									
CS 215	Data Analytics	6.0	MA	BC	HS 101	Economics	6.0	MA	BC
EE 207	Electronic Devices	6.0	MA	AA	MA 205	Mathematics II	4.0	MA	AB
EE 225	Network Theory	6.0	MA	AB	MA 207	Complex Analysis + Differential Equations II	4.0	MA	AB
EE 236	Electronic Devices Lab	3.0	MA	AB					
SPI=8.49/10					CPI=8.26/10				
Academic Year: 2017 – 2018, Term: Semester Spring									
CS 348	Computer Networks	6.0	MA	FR	EE 214	Digital Circuits Lab	3.0	MA	AB
CS 378	Computer Networks Lab	3.0	MA	CC	EE 222	Electrical Machines and Power Electronics	6.0	MA	CD
EE 204	Analog Circuits	6.0	MA	BB	EE 224	Digital Systems	6.0	MA	CD
EE 210	Signals and Systems	6.0	MA	AB	EE 230	Analog Lab	3.0	MA	AA
SPI=6.08/10					CPI=7.68/10				
Academic Year: 2018 – 2019, Term: Semester Autumn									
CS 301	Computer Architecture	6.0	MA	BB	EE 307	Probability and Random Process	6.0	MA	BB
CS 311	Computer Architecture Lab	3.0	MA	AB	EE 311	Electrical Machines and Power Electronics Lab	3.0	MA	AB
EE 303	Control Systems	6.0	MA	CC	HS 301	Philosophy	6.0	MA	AB
EE 305	Digital Signal Processing	6.0	MA	BB					
SPI=8.00/10					CPI=7.74/10				
Academic Year: 2018 – 2019, Term: Semester Spring									
CH 301	Environmental Studies	6.0	MA	AB	EE 306	Power Systems	6.0	MA	BC
CS 348	Computer Networks	6.0	MA	BC	EE 312	Control Systems Lab	3.0	MA	BC
EE 208	Engineering Electromagnetics	6.0	MA	AA	EE 313	Digital Signal Processing Lab	3.0	MA	BC
EE 302	Principles of Communication Systems	6.0	MA	BC	EE 314	Electronic Design Lab	6.0	MA	AB
SPI=8.00/10					CPI=8.00/10				
Academic Year: 2019 – 2020, Term: Semester Autumn									
EE 403	Power System Dynamics and Control	6.0	MA	AA	HS 401	Basics of Accounting & Financial Management	6.0	MA	BC
EE 411	Communications Lab	3.0	MA	AB	HS 402	Technological Entrepreneurship	6.0	MA	CC
SPI=7.86/10					CPI=7.99/10				

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Indian Institute of Technology Dharwad

Name of the Student: NITESH SINGH

Roll Number : 160020019

Code Name	Credits	Tag	Grade	Code Name	Credits	Tag	Grade
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Academic Year: 2019 – 2020, Term: Semester Spring

EE 422 Power System Protection	6.0	MA	AA	HS 304 Intellectual Property Management	6.0	MA	AA
EE 423 B.Tech. Project EE II	6.0	MA	AB				
SPI=9.67/10				CPI=8.11/10			

Mandatory Course Credits (MA)	= 257.0
Overall Credits Completed	= 257.0
Overall Grade Points	= 2084.0
Overall CPI	= 8.11/10

Current Status

The academic requirements for the degree have been completed.

Signature & Seal of Transcript Issuing Authority:

Assistant Registrar (Academic), IIT Dharwad

Date: 27-August-2020

Place: Dharwad

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	FR	W	DX	PP	NP	AU
Numerical Equivalent	10	10	9	8	7	6	5	4	0	-	-	-	-	-

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.

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

Semester Credits = $C_1 + C_2 + \dots + C_n$	Semester Grade Points = $C_1G_1 + C_2G_2 + \dots + C_nG_n$	SPI = Semester Grade Points ÷ 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), ALC: 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 in mandatory courses (MA) and additional learning courses (ALC) are considered.
- Students can supplement the learning experience by crediting additional courses.
- 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 numerical grade points are not convertible into marks or percentages. 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.

END OF TRANSCRIPT

Roll Number: 160020019