

Roll Number:

भारतीय प्रौद्योगिकी संस्थान धारवाड

INDIAN INSTITUTE OF TECHNOLOGY DHARWAD

धारवाड / Dharwad, / कर्नाटक / Karnataka 580 011



EE20BT005

Name of the Student: AKASH POPTANI Bachelor of Technology (B. Tech) Programme.

Electrical Engineering Academic Unit: Joining Month & Year: November 2020

Progra	amme: Bachelor of	Technology (B.	Tech)						
Code	Name	Credits	Tag	Grade	Code	Name	Credits	Tag	Grade
		Academic Ye	ar: 20	020 - 2	021, Terr	n: Semester Autumn			
	1 Essential Biology for Engineers	6.0		AB		Engineering Graphics Lab	5. 0		BB
CH 101	Chemistry for Engineers: Fundament	tal 8.0	MA	AB		Hands on Engineering Lab	3.0		AB
CH 111	concepts and Applications 1 Chemistry Lab	3.0	МΔ	AA	PH 101	Quantum Physics and Applications	6. 0	MA	BC
	1 Calculus	8. 0		AA					
SPI= 8.		0.0		1111	CPI= 8.	85/10			
	<u> </u>	Academic V	oar: 7	2020 - 3	2021 Ter	m: Semester Spring			
CS 101	1 Computer Programming	8.0		AA	•	Differential Equations I	4. 0	МА	AA
	l Computer Frogramming I Introduction to Electrical System			AA AB		Electricity and Magnetism	6. 0		AA AB
DD 101	Electronics	5 dara 5. 0		120		Physics Laboratory	3. 0		AB
MA 102	2 Linear Algebra	4.0	MA	AB		Injeres Edecidory	3.0		110
SPI= 9	. 39/10				CPI= 9.	09/10			
		Academic Ye	ar: 2	021 - 2	022, Terr	n: Semester Autumn			
CS 203	B Discrete Structures	6.0	MA	AB	EE 227	Data Analysis	3. 0	MA	AB
EE 202	2 Introduction to Analog Circuits	3.0	MA	AB	EE 229	Electronic Devices	3.0	MA	AB
EE 205	Network Theory	6. 0	MA	AB	HS 201	Economics	6.0	MA	AB
EE 210	O Signals and Systems	6.0	MA	AB	MA 201	Complex Analysis	4.0	MA	BB
EE 221	l Introduction to Probability	3.0	MA	AB	MA 203	Differential Equations-II	4.0	MA	AA
SPI= 9.	. 00/10				CPI= 9.	05/10			
		Academic Y	ear: 2	2021 - 2	2022, Ter	m: Semester Spring			
EE 204	1 Digital Systems	6.0	MA	AA	EE 216	Communications Lab	2.0	MA	BC
EE 206	3 Introduction to Electrical Machine	es 3.0	MA	AA	EE 223	Introduction to Power Systems	3.0	MA	AB
EE 208	B Engineering Electromagnetics	3. 0	MA	CC	EE 226	Control Systems and Laboratory	6.0	MA	AB
	9 Introduction to Power Electronics	3. 0		BB		Introduction to Communication Systems	3. 0	MA	
	2 Devices and Circuits Laboratory	3. 0		AB	NO 101	National Sports Organisation	0.0	MA	PP
	1 Digital Circuits Lab	3.0	MA	AA					
SPI= 8.	. 71/10				CPI= 8.	97/10			
		Academic Ye	ar: 2	022 - 2	023, Terr	n: Semester Autumn			
	1 Computer Architecture	6. 0		AB	EE 321	Digital Signal Processing	3.0	MA	
	Computer Architecture Lab	3. 0		AA		Microprocessors and Microcontrollers	6. 0		AA
EE 311	l Electrical Machines and Power Elec	etronics 3.0	MA	BB		Research and Development Project	6.0	MA	
EE 915	Lab 5 Digital Signal Processing Lab	2.0	М	BB		Design Thinking and Creativity	1.0	MA	
	Microprocessors and Microcontrolle	2.0 ers 3.0		BB	НS 304	Intellectual Property Management	6. 0	MA	AB
SPI= 8.	Laboratory				CPI= 8.	97/10			
51 1- 0.	. 30/ 10					·			
CE 901	1 F:					m: Semester Spring	2.0	3.5.4	DD
	1 Environmental Studies 2 Runtime Verification	6.0		BC	EE 447	Introduction to Electric Vehicle Architecture	3. 0	MA	RR
	z kuntime verification 4 Electronic Design Lab	6. 0 6. 0		AA AB	FF 610	Architecture VLSI Design	6. 0	МΔ	AB
	Research and Development Project			AA AA		Introduction to Literature	6. 0		AB AB
SPI= 8.		1.1 0.0	ML	1111	CPI= 8.		0.0	.111.1	
21 1- 0	. 02/10				01 1- 0.	00/ 10			

CONTINUED



भारतीय प्रौद्योगिकी संस्थान धारवाड

INDIAN INSTITUTE OF TECHNOLOGY DHARWAD

धारवाड / Dharwad, / कर्नाटक / Karnataka 580 011



Name of the Student: AKASH POPTANI Roll Number : EE20BT005

Code Name	Credits	Tag	Grade	Code Name	Credits	Tag	Grade
	Academic Ye	ar: 20	23 - 20	24, Term: Semester Autumn			
CS 810 Advanced Computer Architecture	9.0	MA	AA	EE 423 B.Tech. Project EE II	6. 0	MA	AB
EE 332 Project in Machine Learning	6.0	MA	AA	HS 101 Introduction to Fine Arts	1.0	MA	PP
EE 407 B. Tech. Project EE	6.0	MA	AA				
SPI= 9. 78/10				CPI= 9. 05/10			
	Academic Y	ear: 2	023 - 20	024, Term: Semester Spring			
NO 102 National Sports Organisation	0.0	MA	PP				
SPI= 0. 00/10				CPI= 9. 05/10			
Mandatory Course Credits (MA)	;	= 252	.0	Overall CPI	=	9.05/	′10
Additional Course Credits	;	= 3.0					
Overall Credits Completed	;	= 255.	.0				
Overall Grade Points	;	= 2289	9.0				

Final Result

The student has completed the academic requirements of the programme in the month of May 2024 for the award of Bachelor of Technology in Electrical Engineering Signature & Seal of Transcript Issuing Authority:

Assistant Registrar (Academics)
Indian Institute of Technology Dharwad
Near High Court, P. B. Road
Dharwad-580011, Karnataka

Assistant Registrar (Academic), IIT Dharwad

Date: 28-June-2024 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	ВВ	ВС	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.

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, ALO: Additional Learning Opportunities, 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 in additional learning opportunities (ALO) are considered. Provided these ALO courses followed regular grading system followed for mandatory courses.
- 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 Opportunities" (ALO).
- 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 mandatory and additional learning opportunities credit courses that are not earmarked with a letter grade. Correspondingly, PP/NP does not carry a grade point.



भारतीय प्रौद्योगिकी संस्थान धारवाड INDIAN INSTITUTE OF TECHNOLOGY DHARWAD

धारवाड / Dharwad, / कर्नाटक / Karnataka 580 011



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: EE20BT005