

## भारतीय प्रौद्योगिकी संस्थान मुंबई

# INDIAN INSTITUTE OF TECHNOLOGY BOMBAY . पवई / Powai, मुंबई / Mumbai 400 076



Name of the Student: Programme:

200070044 Mudavath Vishnuvardhan

Bachelor of Technology (B. Tech.)

Academic Unit:

Electrical Engineering

Joining Month & Year:

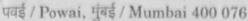
November 2020

Code Name	Credits '	Tag	Gra Mar		Code	Name	Credits		Grade Marks
Ac	ademic Year	. 2	2020	- 20	21, Term	n: Semester Autumn			
	4.0		1A (			Calculus I	4.0	MA	BC
CH 105 Organic & Inorganic Chemistry	4.0		IA E			Calculus II	4.0	MA	CC
CH 107 Physical Chemistry			IA C			NCC/NSS/NSO	0.0	MA	PP
CS 101 Computer Programming and Utilization	6.0		IA E			Quantum Physics and Application	6.0	MA	BC
EE 113 Introduction to Electrical Engineerin Practice	g 5.0		IA E						
SPI=6.41/10					CPI=6.	41/10	de Paris		500
Ac	ademic Year	: 2	020	- 20		: Semester Spring			40
no sas Dialams	6.0	M	A E	BC BC	ME 119	Engineering Graphics & Drawing	5.0		AB
BB 101 Biology	6.0		A E			NCC/NSS/NSO	0.0		PP
EE 114 Power Engineering - I	4.0		IA C		PH 108	Basics of Electricity & Magnetism	6.0	MA	BC
MA 106 Linear Algebra	4.0		A C						
MA 108 Differential Equations	4.0		n .		CPI=6.6	56/10			
SPI=6.94/10				2010					
Ac	ademic Year	: 2	021	- 20	22, Term	: Semester Autumn	6.0	MA	CD
AE 153 Introduction to Aerospace Engg.	6.0	A	LC	:C		Probability and Random Processes	0.0		pp
EE 204 Analog Circuits	6.0	M	A C	C		Gender in the workplace	6.0		BB
EE 214 Digital Circuits Lab	3.0	M	A B	B		Economics	4.0		DD
EE 224 Digital Systems	6.0	M	A B	B	MA 205	Complex Analysis	4.0		CC
EE 229 Signal Processing - I	6.0	M	A C	D	MA 207	Differential Equations II	7.0		
SPI=6.24/10					CPI= 6.5		NETERIO.	227	BOYE
	ademic Year	: 2	021	- 20	22, Term:	: Semester Spring	学者では から		
	6.0		L W		FF 240	Power Engineering Lab	3.0		BC
DE 408 Elements of Design	6.0		A B		FF 302	Control Systems	6.0		88
EE 207 Electronic Devices & Circuits	3.0		AA			Microprocessors	6.0		BC
EE 230 Analog Lab	6.0		A B		FF 337	Microprocessors Laboratory	3.0	MA	BC
EE 238 Power Engineering - II	0.0	13	A D		CPI= 6.7				
SPI=7.64/10				115.0	5-14-14-14-14-14-14-14-14-14-14-14-14-14-				
Aca	ademic Year	: 2	022	- 202	23, Term:	: Semester Autumn	6.0	Ма	BC
EE 236 Electronic Devices Lab	3.0	M	A B	C	EE 609	Radiating Systems			BC
	6.0	M	A C	D	EE 610	Image Processing	6.0		88
EE 301 Electromagnetic Waves EE 324 Control Systems Lab	3.0	M	A A	В		Philosophy	6.0	AL	
EE 340 Communications Lab	3.0	M	A B	C	SC 649	Embedded Control & Robotics	6.0	AL	
EE 340 Communication Systems - I	6.0	M/	A C	С					
					CPI=6.7	9/10			
PI= 6.85/10		2/	222	- 202	2 Torm.	Semester Spring	DE SECRICO		8111
					EF 706	Semester Spring Communication Networks	6.0	MA	88
CS 745 Principles of Data and System Security	6.0		A BI			Introduction to Machine Learning	6.0	MA	AB
EE 344 Electronic Design Lab	0.0		A Al			Advanced Methods in Satellite Image	6.0	MA	BC
EE 350 Technical Communication	6.0		A BO		GITTOUZ	Processing			
EE 602 Radar Systems	6.0	MA	4 B(		Service of				
SPI=7.86/10					CPI= 6.99	9/10			

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### भारतीय प्रौद्योगिकी संस्थान मुंबई INDIAN INSTITUTE OF TECHNOLOGY BOMBAY





Name of the Student: Mudavath Vishnuvardhan Roll Number 200070044 Credits Tag Grade/ Name Code Natto Code Credits Tag Grade/ Marks Marks Academic Year: 2023 - 2024, Term: Semester Autumn 6.0 MA AB ES 200 Environmental Studies: Science and EE 491 BTP 1 MA RE Engineering EE 671 VLSI Design 6.8 MA CC HS 200 Environmental Studies 2.0 5.0 MA BB MA AR EE 782 Advanced Topics in Machine Learning CPI=7.07/10 SPI= 7.75/10 Academic Year: 2023 - 2024, Term: Semester Spring PS 619 Health Policy: An Introduction 6.0 MA AR 5.0 EE 705 V L S I Design Lab AL CD EE 709 Testing and Verification of VLSI Circuits 6.0 MA CC CPI=7.09/10 = 7.89/10 Mandatory Course Credits (MA) = 256.0 Overall CPI Overall Credits Completed = 268.0

#### Final Result

Overall Grade Points

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

= 1880.0

Signature & Seal of Transcript Issuing Authority:

Joint/Assistant Registrar (Academic), IIT Bombay

Date: 17-August-2024

Place: Mumbel वक कुलस्बिव (शैकिक)

Assistant Registrar (Academic

General मिलामा क्यांगिकी संन्यान, मुंबर

Indian Institute of Technology Bomb Senglish.

The very judget percentage 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 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	88	ВС	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<sub>1</sub>, C<sub>2</sub>,..., C<sub>n</sub>, with grade points of G<sub>1</sub>, G<sub>2</sub>,..., G<sub>n</sub> respectively, then

Semester Credits = C1 + C2 + ... + Cn

Semester Grade Points = C1G1 + C2G2 + ... + CnGn

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

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. "IMinor" 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.
- O-IITB is/are the Course(s) completed by a student outside IIT Bombay (NPTEL/ Swayam/ Semester Exchange). These course(s) contribute towards the completion of credits for a degree requirement. However, grades/marks earned for such course(s) is/are not considered for SPI / CPI calculation.

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. 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: 200070044

Online Verification URL: https://portal.iitb.ac.in/verify Page: 2/2 Verification Ticket Number: 62 2E11 7102 6043 5631