



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



Roll Number: 180010027  
Name of the Student: RISHIT NILESH SAIYA  
Programme: Bachelor of Technology (B.Tech.)

Academic Unit: Computer Science & Engineering  
Joining Month & Year: July 2018

Code	Name	Credits	Tag	Grade	Code	Name	Credits	Tag	Grade
Academic Year: 2018 - 2019, Term: Semester Autumn									
CH 101	Chemistry for Engineers: Fundamental concepts and Applications	8.0	MA	AA	ME 111	Engineering Graphics Lab	5.0	MA	BB
CH 111	Chemistry Lab	3.0	MA	AA	ME 113	Hands on Engineering Lab	3.0	MA	AA
HS 101	Introduction to Fine Arts	1.0	MA	PP	NO 101	National Sports Organisation	0.0	MA	PP
MA 101	Calculus	8.0	MA	AA	PH 101	Quantum Physics and Applications	6.0	MA	AA
SPI=9.70/10					CPI=9.70/10				
Academic Year: 2018 - 2019, Term: Semester Spring									
BB 101	Essential Biology for Engineers	7.0	MA	BB	MA 103	Differential Equations I	4.0	MA	BC
CS 101	Computer Programming	8.0	MA	AB	NO 102	National Sports Organisation	0.0	MA	PP
EE 101	Introduction to Electrical Systems and Electronics	7.0	MA	AA	PH 102	Electricity and Magnetism	6.0	MA	AA
MA 102	Linear Algebra	4.0	MA	AB	PH 111	Physics Laboratory	3.0	MA	AA
SPI=9.03/10					CPI=9.33/10				
Academic Year: 2019 - 2020, Term: Semester Autumn									
CS 201	Data Structures and Algorithms	6.0	MA	BC	EE 201	Data Analysis	6.0	MA	AB
CS 203	Discrete Structures	6.0	MA	BB	HS 201	Economics	6.0	MA	BB
CS 211	Data Structures and Algorithms Lab	3.0	MA	AB	HS 202	Wellness Software	2.0	ALO	AA
CS 213	Software Systems Lab	8.0	MA	BB					
SPI=8.19/10					CPI=8.94/10				
Academic Year: 2019 - 2020, Term: Semester Spring									
CH 301	Environmental Studies	6.0	MA	AA	CS 212	Computer Networks Laboratory	3.0	MA	AB
CS 202	Automata Theory	8.0	MA	CC	EE 204	Digital Systems	6.0	MA	BB
CS 204	Computer Networks	6.0	MA	AB	EE 214	Digital Circuits Lab	3.0	MA	AA
CS 205	Design and Analysis of Algorithms	6.0	MA	BC					
SPI=8.13/10					CPI=8.73/10				
Academic Year: 2020 - 2021, Term: Semester Autumn									
CS 301	Computer Architecture	6.0	MA	AB	CS 313	Data Bases and Information Systems Laboratory	3.0	MA	AA
CS 303	Data Bases and Information Systems	6.0	MA	BB	EE 405	Pattern Recognition and Machine Learning	9.0	MA	BB
CS 309	Research and Development Project	6.0	MA	BC	HS 301	Philosophy	6.0	MA	AA
CS 311	Computer Architecture Lab	3.0	MA	AA					
SPI=8.62/10					CPI=8.71/10				
Academic Year: 2020 - 2021, Term: Semester Spring									
CS 302	Artificial Intelligence	6.0	MA	AB	CS 316	Compilers Laboratory	3.0	MA	AA
CS 304	Operating Systems	6.0	MA	AB	CS 406	Compilers	6.0	MA	AB
CS 312	Artificial Intelligence Lab	3.0	MA	AA	HS 402	Technological Entrepreneurship	6.0	MA	AB
CS 314	Operating Systems Laboratory	3.0	MA	AA					
SPI=9.27/10					CPI=8.79/10				
Academic Year: 2021 - 2022, Term: Semester Autumn									
CH 405	Our Health and Medicine	6.0	MA	AP	CS 433	Cloud Software Development	3.0	MA	AB
CS 405	B.Tech Project-CSE	6.0	MA	AA	HS 403	Happiness and Well-being	6.0	MA	AA
SPI=9.86/10					CPI=8.89/10				

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Name of the Student: RISHIT NILESH SAIYA

Roll Number : 180010027

Code	Name	Credits	Tag	Grade	Code	Name	Credits	Tag	Grade
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Academic Year: 2021 - 2022, Term: Semester Spring

CH 303 Bioenergy and Biofuels

6.0 MA AP

CS 409 B.Tech Project CSE - II

6.0 MA AA

SPI=10.00/10

CPI=8.94/10

Mandatory Course Credits (MA)	= 251.0	Overall CPI	= 8.94/10
Additional Learning Opportunities course Credits (ALO)	= 2.0(No of 1 credit ALO courses=0, No of 2 credit ALO courses=1, No of 3 credit ALO courses=0)		
Overall Credits Completed	= 253.0		
Overall Grade Points	= 2253.0		

#### Final Result

The student has completed the academic requirements of the programme in the month of June 2022 for the award of Bachelor of Technology in Computer Science & Engineering

Signature & Seal of Transcript Issuing Authority:

*Signature*  
28/06/2022  
Assistant Registrar (Academics)  
Indian Institute of Technology Dharwad  
Date: 28 June 2022  
Place: Dharwad  
Near High Court, P. B. Road  
Dharwad-580011, Karnataka

#### 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.

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

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), 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.

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: 180010027

Ref. No. IITDh/Academics/UG/PDC/2021-22/028

20<sup>th</sup> June 2022

## **PROVISIONAL DEGREE CERTIFICATE**

This is to certify that **Mr. RISHIT NILESH SAIYA** Roll No. **180010027** has qualified for the award of B.Tech. Degree in **Computer Science and Engineering (CSE)**.

The degree will be conferred upon him at the Institute Convocation likely to be held soon.

**Assistant Registrar (Academics)**

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

**NB: This certificate is valid till the event of the Convocation.**

॥ सा विद्या या विमुक्तये ॥

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