

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 | mme: Bachelor of Techno. | logy (B. | Tech) | | | | | | |
|---------|--|--------------|--------|----------|--|---------------------------------------|---------|-------|-------|
| Code | Name | Credits | Tag | Grade | Code Name | | Credits | Tag | Grade |
| | Acad | lemic Ye | ar: 20 | 020 - 2 | , Term: Semester Autur | mn | | | |
| | Essential Biology for Engineers | 6.0 | | AB | ME 111 Engineering Gra | • | 5.0 | MA | |
| CH 101 | Chemistry for Engineers: Fundamental | 8.0 | MA | AB | ME 113 Hands on Engine | 9 | 3.0 | MA | |
| CH 111 | concepts and Applications Chemistry Lab | 3. 0 | МΔ | AA | PH 101 Quantum Physics | and Applications | 6. 0 | MA | BC |
| | Calculus | 8. 0 | | AA | | | | | |
| SPI= 8. | | 0.0 | | 7111 | CPI= 8. 85/10 | | | | |
| | | demic Ve | ar. 2 | 2020 - 1 | 1, Term: Semester Sprin | ng | | | |
| CS 101 | Computer Programming | 8. 0 | | AA | MA 103 Differential Eq | • | 4.0 | MA | Λ Λ |
| | Introduction to Electrical Systems and | 6. 0 | | AA AB | PH 102 Electricity and | | 6.0 | MA | |
| DD 101 | Electronics | 0.0 | | 110 | PH 111 Physics Laborat | = | 3. 0 | MA | |
| MA 102 | Linear Algebra | 4.0 | MA | AB | n III injeree Baserae | 01, | 0.0 | | |
| SPI= 9. | 39/10 | | | | CPI= 9. 09/10 | | | | |
| | Acad | lemic Ye | ar: 20 | 021 - 2 | , Term: Semester Autur | mn | | | |
| CS 203 | B Discrete Structures | 6.0 | MA | AB | EE 227 Data Analysis | | 3.0 | MA | AB |
| EE 202 | Introduction to Analog Circuits | 3.0 | MA | AB | EE 229 Electronic Devi | ces | 3.0 | MA | AB |
| EE 205 | Network Theory | 6.0 | MA | AB | HS 201 Economics | | 6.0 | MA | AB |
| EE 210 | Signals and Systems | 6.0 | MA | AB | MA 201 Complex Analysi | S | 4.0 | MA | BB |
| EE 221 | Introduction to Probability | 3.0 | MA | AB | MA 203 Differential Equ | uations-II | 4.0 | MA | AA |
| SPI= 9. | 00/10 | | | | CPI= 9. 05/10 | | | | |
| | Aca | demic Ye | ear: 2 | 2021 - 2 | 2, Term: Semester Sprir | ng | | | |
| EE 204 | Digital Systems | 6.0 | MA | AA | EE 216 Communications | Lab | 2.0 | MA | BC |
| EE 206 | Introduction to Electrical Machines | 3.0 | MA | AA | EE 223 Introduction to | Power Systems | 3.0 | MA | AB |
| EE 208 | Engineering Electromagnetics | 3.0 | MA | CC | EE 226 Control Systems | and Laboratory | 6.0 | MA | AB |
| | Introduction to Power Electronics | 3.0 | | BB | | Communication Systems | 3.0 | MA | |
| | Property 2 Devices and Circuits Laboratory | 3.0 | | AB | NO 101 National Sports | Organisation | 0.0 | MA | PP |
| EE 214 | Digital Circuits Lab | 3. 0 | MA | AA | | | | | |
| SPI= 8. | 71/10 | | | | CPI= 8. 97/10 | | | | |
| | Acad | lemic Ye | ar: 20 | 022 - 2 | , Term: Semester Autur | mn | | | |
| | Computer Architecture | 6.0 | | AB | EE 321 Digital Signal | = | 3.0 | MA | |
| | Computer Architecture Lab | 3. 0 | | AA | EE 325 Microprocessors | | 6. 0 | MA | |
| EE 311 | Electrical Machines and Power Electronic | s 3.0 | MA | BB | EE 331 Research and De | | 6. 0 | MA | |
| DE 915 | Lab | 2.0 | MA | DD | IS 102 Design Thinking | · · · · · · · · · · · · · · · · · · · | 1.0 | MA | |
| | Digital Signal Processing Lab Microprocessors and Microcontrollers | 2. 0 3. 0 | | BB BB | HS 304 Intellectual Pr | operty management | 6. 0 | MA | AB |
| SPI= 8. | Laboratory 95/10 | | | | CPI= 8. 97/10 | | | | |
| | | d:- V- | | 2022 | | | | | |
| CE 201 | | | | | 3, Term: Semester Sprin | _ | 2.0 | 3.5.4 | DD |
| | Environmental Studies Runtime Verification | 6.0 | | BC | EE 447 Introduction to Architecture | Electric Vehicle | 3. 0 | MA | RR |
| | Runtime verification Electronic Design Lab | 6. 0 6. 0 | | AA AB | Architecture EE 610 VLSI Design | | 6.0 | MA | ΔR |
| | Research and Development Project II | 6.0 | | AA | IS 420 Introduction to | Literature | 6. 0 | MA | |
| SPI= 8. | | 0.0 | ML | 1111 | CPI= 8. 96/10 | | 0.0 | | |
| ol1− 0. | . 34/ 10 | | | | ol 1- 0. 30/ 10 | | | | |

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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.



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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