

International Institute of Information Technology Hyderabad

Course offerings in 2024-25 Semester I (Monsoon) - V4-01 August, 24

UG Programmes

CD - Course Discription -Programme Requirement; Institute Requirement

AD - Area Code - MA-Maths; CS-Comp Sci; EC-Electronics, CG-Cognitive Science;

HS-Human Sci; SC-Science; OE-Open Elective; CL-Compu. Linguistics; OT-Others

L-T-P-C: (Lecture hours - Tutorial hours - Practical Hours) per week - Credits

H1-1st Half of the Semester; H2-2nd Half of the Semester; H-1 Class per week with full Semester

| CD | AD | Course No | Course Name | Credits (L-T-P-C) | Faculty Name(s) |
|---|----|-----------|--------------------------------------|-------------------|---|
| B.Tech I year I Semester - CSE&CSD | | | | | |
| Pr | MA | MA5.101 | Discrete Structures | 3-1-0-4 | Srinathan K + Shantanav Chakraborty |
| Pr | CS | CS0.101 | Computer Programming | 3-1-3-5 | Girish Varma + Abhishek Deshpande + Sandeep Nagar |
| Pr | EC | EC2.101 | Digital Systems and Microcontrollers | 3-1-3-5 | Anshu Sarje + Harikumar K + Anil Kumar Vuppala |
| Pr | MA | MA4.101 | Real Analysis | 3-1-0-4 | Samyadeb Bhattacharya + Abhishek Deshpande |
| In | HS | OC2.101 | Arts-1 (H1) | 2-0-0-2 | Saroja T K (Coordinator) |
| In | HS | OC3.101 | Value Education-1 (H) | 0-2-0-2 | Shatrunjay Rawat (Coordinator) |
| In | HS | OC1.101 | Sports-1 | 0-2-0-1 | Physical Education Centre |
| | | | Total 14-8-6-23 | | |
| B.Tech I year I Semester - ECE&ECD | | | | | |
| Pr | MA | EC5.101 | Networks, Signals and Systems | 3-1-0-4 | Prasad Krishnan + Aftab Hussain |
| Pr | CS | CS0.101 | Computer Programming | 3-1-3-5 | Girish Varma + Abhishek Deshpande + Sandeep Nagar |
| Pr | EC | EC2.101 | Digital Systems and Microcontrollers | 3-1-3-5 | Anshu Sarje + Harikumar K + Anil Kumar Vuppala |
| Pr | MA | MA4.101 | Real Analysis | 3-1-0-4 | Samyadeb Bhattacharya + Abhishek Deshpande |
| Pr | CS | EC2.102 | Electronic Workshop-1 (H2) | 2-0-3-2 | Praful Mankar + Sachin Chaudhari |
| In | HS | OC2.101 | Arts-1 (H1) | 2-0-0-2 | Saroja T K (Coordinator) |
| In | HS | OC3.101 | Value Education-1 (H) | 0-2-0-2 | Shatrunjay Rawat (Coordinator) |
| In | HS | OC1.101 | Sports-1 | 0-2-0-1 | Physical Education Centre |
| | | | Total 16-8-9-25 | | |
| B.Tech I year I Semester – CND | | | | | |
| Pr | MA | MA5.101 | Discrete Structures | 3-1-0-4 | Srinathan K + Shantanav Chakraborty |
| Pr | CS | CS0.101 | Computer Programming | 3-1-3-5 | Girish Varma + Abhishek Deshpande + Sandeep Nagar |
| Pr | EC | EC2.101 | Digital Systems and Microcontrollers | 3-1-3-5 | Anshu Sarje + Harikumar K + Anil Kumar Vuppala |
| Pr | MA | MA4.101 | Real Analysis | 3-1-0-4 | Samyadeb Bhattacharya + Abhishek Deshpande |

| | | | | | |
|--|----|---------|--------------------------------------|---------|---|
| Pr | SC | SC4.101 | Computing in Sciences-1(H2) | 2-0-3-2 | Deva Priyakumar |
| In | HS | OC2.101 | Arts-1 (H1) | 2-0-0-2 | Saroja T K (Coordinator) |
| In | HS | OC3.101 | Value Education-1 (H) | 0-2-0-2 | Shatrunjay Rawat (Coordinator) |
| In | HS | OC1.101 | Sports-1 | 0-2-0-1 | Physical Education Centre |
| | | | Total 16-8-9-25 | | |
| B.Tech I year I Semester – CLD | | | | | |
| Pr | MA | MA5.101 | Discrete Structures | 3-1-0-4 | Srinathan K + Shantanav Chakraborty |
| Pr | CS | CS0.101 | Computer Programming | 3-1-3-5 | Girish Varma + Abhishek Deshpande + Sandeep Nagar |
| Pr | EC | EC2.101 | Digital Systems and Microcontrollers | 3-1-3-5 | Anshu Sarje + Harikumar K + Anil Kumar Vuppala |
| Pr | CS | CL1.101 | Introduction to Linguistics-1 | 3-1-0-4 | Rajakrishnan P Rajkumar |
| In | HS | OC2.101 | Arts-1 (H1) | 2-0-0-2 | Saroja T K (Coordinator) |
| In | HS | OC3.101 | Value Education-1 (H) | 0-2-0-2 | Shatrunjay Rawat (Coordinator) |
| In | HS | OC1.101 | Sports-1 | 0-2-0-1 | Physical Education Centre |
| | | | Total 14-8-6-23 | | |
| B.Tech I year I Semester – CHD | | | | | |
| Pr | MA | MA5.101 | Discrete Structures | 3-1-0-4 | Srinathan K + Shantanav Chakraborty |
| Pr | CS | CS0.101 | Computer Programming | 3-1-3-5 | Girish Varma + Abhishek Deshpande + Sandeep Nagar |
| Pr | EC | EC2.101 | Digital Systems and Microcontrollers | 3-1-3-5 | Anshu Sarje + Harikumar K + Anil Kumar Vuppala |
| Pr | HS | HS4.102 | Making of the Contemporary India | 3-1-0-4 | Aniket Alam |
| Pr | HS | HS7.101 | Human Sciences Lab-1 (H2) | 3-1-0-2 | Anirban Dasgupta |
| In | HS | OC2.101 | Arts-1 (H1) | 2-0-0-2 | Saroja T K (Coordinator) |
| In | HS | OC3.101 | Value Education-1 (H) | 0-2-0-2 | Shatrunjay Rawat (Coordinator) |
| In | HS | OC1.101 | Sports-1 | 0-2-0-1 | Physical Education Centre |
| | | | Total 17-9-6-25 | | |
| B.Tech I year I Semester – CGD | | | | | |
| Pr | MA | MA5.101 | Discrete Structures | 3-1-0-4 | Srinathan K + Shantanav Chakraborty |
| Pr | CS | CS0.101 | Computer Programming | 3-1-3-5 | Girish Varma + Abhishek Deshpande + Sandeep Nagar |
| Pr | EC | EC2.101 | Digital Systems and Microcontrollers | 3-1-3-5 | Anshu Sarje + Harikumar K + Anil Kumar Vuppala |
| Pr | GS | GS0.101 | Spatial Thinking and Practice | 3-1-0-4 | KS Rajan |
| In | HS | OC2.101 | Arts-1 (H1) | 2-0-0-2 | Saroja T K (Coordinator) |
| In | HS | OC3.101 | Value Education-1 (H) | 0-2-0-2 | Shatrunjay Rawat (Coordinator) |
| In | HS | OC1.101 | Sports-1 | 0-2-0-1 | Physical Education Centre |
| | | | Total 14-8-6-23 | | |
| B.Tech II year I Semester - CSE/CSD | | | | | |
| Pr | MA | MA6.101 | Probability and Statistics | 3-1-0-4 | Tejas Bodas |
| Pr | CS | CS1.301 | Algorithm Analysis and Design | 3-1-0-4 | Suryajith Chillara |
| Pr | CS | CS3.301 | Operating Systems and Networks | 3-1-0-4 | Karthik Vaidhyanathan |
| Pr | CS | CS1.302 | Automata Theory (H1) | 3-1-0-2 | Shantanav Chakraborty |
| Pr | CS | CS4.301 | Data and Applications (H2) | 3-1-0-2 | Ponnurangam Kumaraguru |

| | | | | | |
|--|----|---------|--|---------|---|
| Pr | EC | EC3.202 | Embedded Systems Workshop (H) | 1-0-3-3 | Abhishek Srivastava + Zia Abbas |
| Pr | SC | SC1.110 | Science 1 | 3-1-0-4 | Prabhakar B + Harjinder Singh |
| In | HS | OC1.103 | Sports-3 | 0-2-0-1 | Physical Education Centre |
| | | | Total 19-8-3-24 | | |
| LE-CSD-2K24 I year I Semester | | | | | |
| Pr | MA | MA6.101 | Probability and Statistics | 3-1-0-4 | Tejas Bodas |
| Pr | CS | CS1.301 | Algorithm Analysis and Design | 3-1-0-4 | Suryajith Chillara |
| Pr | CS | CS3.301 | Operating Systems and Networks | 3-1-0-4 | Karthik Vaidhyanathan |
| Pr | CS | CS1.302 | Automata Theory (H1) | 3-1-0-2 | Shantanav Chakraborty |
| Pr | CS | CS4.301 | Data and Applications (H2) | 3-1-0-2 | Ponnuram Kumaraguru |
| In | HS | OC1.101 | Sports-1 | 0-2-0-1 | Physical Education Centre |
| | | | Total 15-7-0-17 | | |
| B.Tech II year I Semester - ECE/ECD | | | | | |
| Pr | MA | MA6.102 | Probability and Random Processes | 3-1-0-4 | Gowtham Kurri |
| Pr | EC | EC5.201 | Signal Processing | 3-1-3-5 | Chiranjeevi Yarra + Santosh Nannuru |
| Pr | EC | EC5.202 | Systems Thinking | 3-1-0-4 | Spandan Roy + Vinod PK |
| Pr | EC | EC2.201 | VLSI Design | 3-1-0-4 | Abhishek Srivastava |
| Pr | SC | SC1.110 | Science 1 | 3-1-0-4 | Prabhakar B + Harjinder Singh |
| In | HS | OC1.103 | Sports-3 | 0-2-0-1 | Physical Education Centre |
| | | | Total 15-7-3-22 | | |
| LE-ECD-2K24 I year I Semester | | | | | |
| Pr | MA | MA6.102 | Probability and Random Processes | 3-1-0-4 | Gowtham Kurri |
| Pr | EC | EC5.201 | Signal Processing | 3-1-3-5 | Chiranjeevi Yarra + Santosh Nannuru |
| Pr | EC | EC5.202 | Systems Thinking | 3-1-0-4 | Spandan Roy + Vinod PK |
| Pr | EC | EC2.201 | VLSI Design | 3-1-0-4 | Abhishek Srivastava |
| Pr | SC | SC1.110 | Science 1 | 3-1-0-4 | Prabhakar B + Harjinder Singh |
| In | HS | OC1.101 | Sports-1 | 0-2-0-1 | Physical Education Centre |
| | | | Total 15-7-3-22 | | |
| B.Tech II year I Semester –CND | | | | | |
| Pr | MA | MA6.102 | Probability and Random Processes | 3-1-0-4 | Gowtham Kurri |
| Pr | CS | SC1.203 | Quantum Mechanics | 3-1-0-4 | Subhadip Mitra |
| Pr | CS | SC3.101 | Introduction to Biology | 3-1-0-4 | Vinod PK |
| Pr | CS | SC4.110 | Science Lab I (H1) | 0-0-3-2 | Tapan Sau + Prabhakar B |
| Pr | CS | CS1.301 | Algorithm Analysis and Design | 3-1-0-4 | Suryajith Chillara |
| Pr | CS | CS1.302 | Automata Theory (H1) | 3-1-0-2 | Shantanav Chakraborty |
| Pr | CS | CS4.301 | Data and Applications (H2) | 2-0-3-2 | Ponnuram Kumaraguru |
| In | HS | OC1.103 | Sports-3 | 0-2-0-1 | Physical Education Centre |
| | | | Total 17-7-6-23 | | |
| B.Tech II year I Semester –CLD | | | | | |
| Pr | MA | MA6.101 | Probability and Statistics | 3-1-0-4 | Tejas Bodas |
| Pr | CS | CL2.203 | Language and Society | 3-1-0-4 | Aditi Mukherjee |
| Pr | CS | CL3.202 | Computational Linguistics II: Comp Semantics and Discourse parsing | 3-1-0-4 | Rajakrishnan P Rajkumar + Parameswari Krishnamurthy |
| Pr | CS | CS1.301 | Algorithm Analysis and Design | 3-1-0-4 | Suryajith Chillara |
| Pr | CS | CS1.302 | Automata Theory (H1) | 3-1-0-2 | Shantanav Chakraborty |

| | | | | | |
|---|----|---------|--|---------|------------------------------------|
| Pr | CS | CS4.301 | Data and Applications (H2) | 3-1-0-2 | Ponnurangam Kumaraguru |
| In | HS | OC1.103 | Sports-3 | 0-2-0-1 | Physical Education Centre |
| | | | Total 15-7-0-21 | | |
| B.Tech II year I Semester –CHD | | | | | |
| Pr | MA | MA6.101 | Probability and Statistics | 3-1-0-4 | Tejas Bodas |
| Pr | HS | HS0.216 | Thinking and Knowing in the Human Sciences - III | 3-1-0-4 | Anirban Dasgupta + Aakansha Natani |
| Pr | HS | HS0.202 | Thinking and Knowing in the Human Sciences - II | 3-1-0-4 | Aniket Alam |
| Pr | CS | CS1.301 | Algorithm Analysis and Design | 3-1-0-4 | Suryajith Chillara |
| Pr | CS | CS4.301 | Data and Applications (H2) | 2-0-3-2 | Ponnurangam Kumaraguru |
| Pr | CS | CS1.302 | Automata Theory (H1) | 3-1-0-2 | Shantanav Chakraborty |
| In | HS | OC1.103 | Sports-3 | 0-2-0-1 | Physical Education Centre |
| | | | Total 17-7-3-21 | | |
| B.Tech III year I Semester – CSE | | | | | |
| Pr | CS | | Bouquet Course – 1 | 3-1-0-4 | |
| OT | SC | | Science Elective – 1 | 3-1-0-4 | |
| OT | HS | | HSS Elective-1 | 3-1-0-4 | |
| OT | OE | | Open Elective-1 | 3-1-0-4 | |
| Pr | CS | | CSE-Honours-1 (Optional) | 0-2-6-2 | |
| | | | Total 12-6-6-16/18 | | |
| B.Tech III year I Semester - CSD | | | | | |
| Pr | CS | | Bouquet Course – 1 | 3-1-0-4 | |
| OT | SC | | Science Elective – 1 | 3-1-0-4 | |
| OT | HS | | HSS Elective-1 | 3-1-0-4 | |
| OT | OE | | Open Elective-1 | 3-1-0-4 | |
| PR | CS | | Stream Elective-1 | 3-1-0-4 | |
| Pr | CS | | CSE-Honours-1 | 0-2-6-2 | |
| | | | Total 15-7-6-22 | | |
| LE-CSD-2K23 II year I Semester | | | | | |
| Pr | CS | | Bouquet Course – 1 | 3-1-0-4 | |
| OT | SC | | Science Elective – 1 | 3-1-0-4 | |
| OT | HS | | HSS Elective-1 | 3-1-0-4 | |
| OT | OE | | Open Elective-2 | 3-1-0-4 | |
| PR | CS | | Stream Elective-1 | 3-1-0-4 | |
| Pr | CS | CS9.302 | CSE-Honours-1 | 0-2-6-2 | |
| | | | Total 15-7-6-22 | | |
| B.Tech III year I Semester – ECE | | | | | |
| Pr | EC | | Stream Foundation-2 | 3-1-0-4 | |
| Pr | EC | | Stream Elective-1 | 3-1-0-4 | |
| OT | OE | | Open Elective-1 | 3-1-0-4 | |
| OT | HS | | HSS Elective-1 | 3-1-0-4 | |
| Pr | MA | | Maths Elective | 3-1-0-4 | |
| Pr | EC | | ECE-Honours-1 (Optional) | 0-2-6-2 | |
| | | | Total 15-7-6-20/22 | | |
| B.Tech III year I Semester – ECD and LED-2K23 II year I Semester | | | | | |
| Pr | EC | | Stream Foundation-2 | 3-1-0-4 | |
| Pr | EC | | Stream Elective-1 | 3-1-0-4 | |
| OT | OE | | Open Elective-1 | 3-1-0-4 | |
| Pr | MA | | Maths Elective | 3-1-0-4 | |

| | | | | | |
|---|----|-----------------------|--|---------|--|
| OT | HS | | HSS Elective-1 | 3-1-0-4 | |
| Pr | EC | | ECE-Honours-1 | 0-2-6-2 | |
| | | | Total 15-7-6-22 | | |
| B.Tech III year I Semester – CND | | | | | |
| Pr | CS | CS3.301 | Operating Systems and Networks | 3-1-0-4 | Karthik Vaidhyanathan |
| Pr | SC | SC2.304 | Spectroscopy(H1) | 3-1-0-2 | M Krishnan |
| Pr | SC | SC2.305 | Chemical Kinetics and Reaction Dynamics (H2) | 3-1-0-2 | Harjinder Singh |
| Pr | SC | SC3.202 | Bioinformatics (H1) | 3-1-0-2 | Nita Parkeh |
| Pr | SC | SC3.203 | Systems Biology (H2) | 3-1-0-2 | Vinod PK |
| Pr | CS | | CS Elective - 1 | 3-1-0-4 | |
| Pr | SC | SC9.302 | CNS Honors - 1 | 0-2-6-2 | |
| Pr | SC | SC9.600 | CCNSB seminar - 1 | 0 Cr | Abhishek Deshpande |
| | | | Total 12-6-6-18 | | |
| B.Tech III year I Semester – CLD | | | | | |
| Pr | CS | CS3.301 | Operating Systems and Networks | 3-1-0-4 | Karthik Vaidhyanathan |
| Pr | CL | CS7.501 | Advanced NLP | 3-1-0-4 | Manish Shrivastava |
| Pr | CL | CL9.302 | CL-Honours-1 | 0-2-6-2 | |
| Pr | SC | SC1.110 | Science 1 | 3-1-0-4 | Prabhakar B + Harjinder Singh |
| Pr | CS | | CS Elective-1 | 3-1-0-4 | |
| OT | HS | | HSS Elective - 1 | 3-1-0-4 | |
| | | | Total 15-7-6-22 | | |
| B.Tech III year I Semester – CHD | | | | | |
| Pr | CS | CS3.301 | Operating Systems and Networks | 3-1-0-4 | Karthik Vaidhyanathan |
| Pr | HS | HS0.303 | Applied Ethics | 3-1-0-4 | Ashwin Jayanti |
| Pr | SC | SC1.110 | Science 1 | 3-1-0-4 | Prabhakar B + Harjinder Singh |
| Pr | CS | | CS Elective-1 | 3-1-0-4 | |
| OT | HS | | HSS Elective-2 | 3-1-0-4 | |
| Pr | HS | HS9.302 | HS-Honours-1 | 0-2-6-2 | |
| | | | Total 15-7-6-22 | | |
| B.Tech IV year I Semester - CSE | | | | | |
| Pr | CS | CS9.401/ CS9.402 | BTP II / CSE-Honours Project III | 0-2-6-2 | |
| Pr | HS | HS0.203a &HS0.203b | Basics of Ethics (H1&H2) | 3-1-0-2 | Ashwin Jayanti (H1) + Ramesh Dheeravath (H2) |
| Pr | CS | | Bouquet Core-4 | 3-1-0-4 | |
| Pr | OE | | Open Elective-3 | 3-1-0-4 | |
| Pr | OE | | Open Elective-4 | 3-1-0-4 | |
| | | | Total 12-6-6-16 | | |
| B.Tech IV year I Semester - CSD | | | | | |
| Pr | CS | CS9.402 | CSE-Honours Project III | 0-2-6-2 | |
| Pr | HS | HS0.203a &HS0.203b | Basics of Ethics (H1&H2) | 3-1-0-2 | Ashwin Jayanti (H1) + Ramesh Dheeravath (H2) |
| Pr | CS | | Stream Elective-3 | 3-1-0-4 | |
| Pr | CS | | Bouquet Core-4 | 3-1-0-4 | |
| Pr | OE | | Open Elective-3 | 3-1-0-4 | |
| Pr | OE | | Open Elective-4 | 3-1-0-4 | |
| | | | Total 15-7-6-20 | | |
| LE-CSD-2K22 III year I Semester | | | | | |
| Pr | CS | CS9.402 | CSE-Honours Project III | 0-2-6-2 | |

| | | | | | |
|---|----|-----------------------|--------------------------------|---------|--|
| Pr | HS | HS0.203a &HS0.203b | Basics of Ethics (H1&H2) | 3-1-0-2 | Ashwin Jayanti (H1) + Ramesh Dheeravath (H2) |
| Pr | CS | | Stream Elective-3 | 3-1-0-4 | |
| Pr | CS | | Bouquet Core-4 | 3-1-0-4 | |
| Pr | OE | | Open Elective-4 | 3-1-0-4 | |
| Pr | OE | | Open Elective-5 | 3-1-0-4 | |
| | | | Total 15-5-6-20 | | |
| B.Tech IV year I Semester - ECE | | | | | |
| Pr | EC | EC9.401/ EC9.402 | BTP II/ECE-Honours Project III | 0-2-6-2 | |
| Pr | HS | HS0.203a &HS0.203b | Basics of Ethics (H1&H2) | 3-1-0-2 | Ashwin Jayanti (H1) + Ramesh Dheeravath (H2) |
| Pr | EC | | Stream Elective-3 | 3-1-0-4 | |
| Pr | OE | | Open Elective-3 | 3-1-0-4 | |
| OT | SC | | Science Elective-1 | 3-1-0-4 | |
| | | | Total 12-4-6-16 | | |
| B.Tech IV year I Semester – ECD and LED-2K22 III year I semester | | | | | |
| Pr | EC | EC9.402 | ECE-Honours Project III | 0-2-6-2 | |
| Pr | EC | | Stream Elective-4 | 3-1-0-4 | |
| Pr | EC | | Stream Elective-5 | 3-1-0-4 | |
| Pr | OE | | Open Elective-3 | 3-1-0-4 | |
| OT | SC | | Science Elective-1 | 3-1-0-4 | |
| In | HS | HS0.203a &HS0.203b | Basics of Ethics (H1&H2) | 3-1-0-2 | Ashwin Jayanti (H1) + Ramesh Dheeravath (H2) |
| | | | Total 15-7-6-20 | | |
| B.Tech IV year I Semester – CND | | | | | |
| Pr | SC | SC9.402 | CNS-Honours Project III | 0-2-6-2 | |
| Pr | SC | | CNS Elective-3 | 3-1-0-4 | |
| Pr | CS | | CS Elective-3 | 3-1-0-4 | |
| Pr | CS | | CS Elective-4 | 3-1-0-4 | |
| In | HS | HS0.203a &HS0.203b | Basics of Ethics (H1&H2) | 3-1-0-2 | Ashwin Jayanti (H1) + Ramesh Dheeravath (H2) |
| Pr | SC | SC9.600 | CCNSB Seminar-3 | 0 Cr | Abhishek Deshpande |
| | | | Total 12-6-6-16 | | |
| B.Tech IV year I Semester – CLD | | | | | |
| Pr | CL | CL9.402 | CL-Honours Project III | 0-2-6-2 | |
| Pr | CL | | CL Stream Elective-2 | 3-1-0-4 | |
| Pr | CL | | CL Stream Elective-3 | 3-1-0-4 | |
| Pr | CS | | CS Elective-3 | 3-1-0-4 | |
| Pr | HS | HS0.203a &HS0.203b | Basics of Ethics (H1&H2) | 3-1-0-2 | Ashwin Jayanti (H1) + Ramesh Dheeravath (H2) |
| Pr | OE | | Open Elective-2 | 3-1-0-4 | |
| | | | Total 15-7-6-20 | | |
| B.Tech IV year I Semester – CHD | | | | | |
| Pr | HS | HS9.402 | HS-Honours Project-3 | 0-2-6-2 | |
| OT | HS | | HSS Elective-4 | 3-1-0-4 | |
| OT | HS | | HSS Elective-5 | 3-1-0-4 | |
| Pr | MA | | Maths Elective | 3-1-0-4 | |
| Pr | CS | | CS Elective-4 | 3-1-0-4 | |
| Pr | OE | | Open Elective-3 | 3-1-0-4 | |
| | | | Total 15-7-6-22 | | |

| | | | | | |
|--|-----------|--------------------|--|----------------|-------------------------------|
| B.Tech V year I Semester – CSD (LE-CSD-2K21-IV year I Semester) | | | | | |
| Pr | CS | CS9.605 | Thesis | 12 Cr | |
| In | OT | OC9.600 | Institute Seminar | 1 Cr | |
| | | | Total 13 credits | | |
| B.Tech V year I Semester – ECD (LE-ECD-2K21-IV year I Semester) | | | | | |
| Pr | EC | EC9.605 | Thesis | 12 Cr | |
| In | OT | OC9.600 | Institute Seminar | 1 Cr | |
| | | | Total 13 credits | | |
| B.Tech V year I Semester – CLD | | | | | |
| Pr | CL | CL9.605 | Thesis | 12 Cr | |
| In | OT | OC9.600 | Institute Seminar | 1 Cr | |
| | | | Total 13 credits | | |
| B.Tech V year I Semester – CND | | | | | |
| Pr | SC | SC9.605 | Thesis | 12 Cr | |
| OT | OT | | Open Elective 1 | 3-1-0-4 | |
| Pr | SC | SC9.600 | CCNSB seminar - 5 | 0 Cr | |
| | | | Total 3-1-0-16 | | |
| B.Tech V year I Semester – CHD | | | | | |
| Pr | HS | HS9.605 | Thesis | 12 Cr | |
| In | OT | OC9.600 | Institute Seminar | 1 Cr | |
| | | | Total 13 credits | | |
| PG Programmes | | | | | |
| CD | AD | Course Code | Course Name | Credits | Faculty Name(s) |
| M.Tech I year I Semester - CSE & CSIS | | | | | |
| Pr | CS | CS1.304 | Data Structures & Algorithms for Problem Solving | 3-0-2-6 | Kshitij Gajjar + Lini Thomas |
| Pr | MA | MA6.301 | Maths for Computer Science 1-Probability and Statistics (H1) | 3-1-0-2 | Naresh Manwani |
| Pr | MA | MA6.302 | Maths for Computer Science 2 - Linear Algebra (H2) | 3-1-0-2 | Pawan Kumar |
| Pr | CS | CS6.302 | Software Systems Development | 3-0-2-4 | Rahul Mishra + Sai Anirudh |
| Pr | CS | CS3.304 | Advanced Operating Systems | 3-1-0-4 | P. Krishna Reddy |
| | | | Total 12-1-5-18 | | |
| M.Tech II year I Semester – CSE | | | | | |
| Pr | CS | | Bouquet Core | 3-1-0-4 | |
| Pr | CS | | Bouquet Core | 3-1-0-4 | |
| Pr | OT | | Area Elective | 3-1-0-4 | |
| Pr | CS | | Breadth Elective/Project/ Independent Study | 3-1-0-4 | |
| | | | Total 12-4-0-16 | | |
| * At most 4 credits can be converted to Project/Independent Study in lieu of course credits(66) | | | | | |
| M.Tech II year I Semester – CSIS | | | | | |
| Pr | CS | CS8.501 | Research in Information Security | 3-1-0-4 | Ashok Kumar Das + Srinathan K |
| Pr | CS | CS3.402 | Advanced Computer Networks | 3-1-0-4 | Ankit Gangwal |
| Pr | CS | | Bouquet Elective | 3-1-0-4 | |
| Pr | CS | | Area/CS/IT Elective | 3-1-0-4 | |
| | | | Total 12-4-0-16 | | |
| M.Tech I Year I Semester – CASE | | | | | |

| | | | | | |
|---|--|------------|--|----------------|---|
| Pr | SE | CE1.501 | Structural Dynamics | 3-1-0-4 | Sunitha Palissery |
| Pr | CS | CS0.301 | Computer Problem Solving | 3-1-3-4 | Shatrunjay Rawat |
| Pr | SE | CE4.501 | Finite Element Methods | 3-1-0-4 | Jofin George |
| Pr | SE | CE1.502 | Structural Engineering Design Studio | 3-1-0-4 | Shubham Singhal |
| Pr | SE | CE0.501 | Theory of Elasticity | 3-1-0-4 | Pravin Kumar Venkat Rao |
| | | | Total 15-5-0-20 | | |
| M.Tech II Year I Semester – CASE | | | | | |
| Pr | CS | CE9.609 | IoT Workshop | 3-1-0-4 | Sachin Chaudhari + Nagamanikandan Govindan + TBD |
| Pr | CE | | CASE Elective-4 | 3-1-0-4 | |
| Pr | CE | | CASE Elective-5 | 3-1-0-4 | |
| Pr | CE | | CASE Elective-6 | 3-1-0-2 | |
| | | | Total 12-4-0-14 | | |
| M.Tech I Year I Semester – Product Design and Management | | | | | |
| Pr | CS | CS6.302 | Software Systems Development | 3-1-0-4 | Rahul Mishra + Sai Anirudh |
| Pr | CS | CS9.501 | User Research Methods (H2) | 3-1-0-2 | Priynaka Srivastava |
| Pr | PD | PD1.301 | Design Thinking - Research to Define (H1) | 3-1-0-2 | Raman Saxena |
| Pr | PD | PD1.401 | Design Thinking - Idea to Evaluate (H2) | 3-1-0-2 | Raman Saxena |
| Pr | PD | PD2.401 | Product Management 101 (H1) | 3-1-0-2 | Ramesh Swaminathan |
| Pr | PD | PD2.421 | Business Fundamentals | 3-1-0-4 | Himanshu Warudkar |
| Pr | | | Bridge / Technology / Systems Elective | 3-1-0-4 | |
| Pr | OT | PD9.601 | PDM-Seminar | 0 Cr | Guest Speakers |
| | | | Total 15-5-2-16 | | |
| M.Tech II Year I Semester – Product Design and Management | | | | | |
| Pr | PD | PD9.403 | PDM Project-3 | 12 Cr | |
| Pr | PD | | Technology / Systems / Open Elective | 3-1-0-4 | |
| | | | Total 4-1-0-16 | | |
| Electives offering in Monsoon 2024 | | | | | |
| | | CNO | CName | Credits | Faculty Name(s) |
| Electives for CND Students | | | | | |
| | | SC1.310 | Open Quantum Systems and Quantum Thermodynamics | 3-1-0-4 | Samyadeb Bhattacharya |
| | | SC1.421 | Introduction to Quantum Field Theory (40) | 3-1-0-4 | Diganta Das + Monalisa Patra |
| | | SC2.401 | Topics in Nanosciences | 3-1-0-4 | Tapan Kumar Sau |
| | | SC1.415 | Physics of Early Universe | 3-1-0-4 | Diganta Das |
| Electives for CLD Students | | | | | |
| | | CS4.406 | Information Retrieval & Extraction | 3-1-0-4 | Rahul Mishra |
| | | CG1.402 | Intro to Cognitive Science | 3-1-0-4 | Vishnu Sreekumar |
| | | CL2.405 | Speech Analysis and Linguistics | 3-1-0-4 | Chiranjeevi Yarra |
| ECE Electives (Also applicable as CSE/Open Electives) | | | | | |
| Note for UG ECE/ECD Students: Please read carefully the guidelines for choosing of ECE Electives before registering. | | | | | |
| | Signal Processing & Communications Stream | | | | |
| | | EC5.410 | Information Theory | 3-1-0-4 | Arti Yardi |
| | | CS7.404 | Digital Image Processing | 3-1-0-4 | Anoop M Namboodiri |
| | | CS7.403 | Statistical Methods in AI | 3-1-0-4 | Ravi Kiran S |

| | | | | | |
|---|--|---------|---|---------|--------------------------------------|
| | | EC5.407 | Wireless Communications | 3-1-0-4 | Praful Mankar |
| | | EC5.406 | Signal Detection and Estimation Theory | 3-1-0-4 | Santosh Nannuru |
| | | EC5.411 | Modern Coding Theory | 3-1-0-4 | Prasad Krishnan |
| VLSI and Embedded Systems Stream | | | | | |
| | | EC2.407 | Design for Testability | 3-1-0-4 | Usha Gogineni (Guest Faculty) |
| | | EC2.409 | Principles of Semiconductor Devices | 3-1-0-4 | Aftab Hussain |
| | | EC2.408 | Digital VLSI Design | 3-1-0-4 | Zia Abbas |
| | | CS2.501 | Advanced Computer Architecture | 3-1-0-4 | Suresh Purini |
| | | EC2.410 | CMOS References and Regulators | 3-1-0-4 | Zia Abbas + Abhishek Pullela |
| Robotics Stream | | | | | |
| | | CS7.503 | Mobile Robotics | 3-1-0-4 | K Madhava Krishna |
| | | CS7.404 | Digital Image Processing | 3-1-0-4 | Anoop M Namboodiri |
| | | EC4.401 | Robotics: Dynamics and Control | 3-1-0-4 | Nagamanikandan Govindan |
| | | CS7.403 | Statistical Methods in AI | 3-1-0-4 | Ravi Kiran S |
| | | | | | |
| Electives for PG CASE students | | | | | |
| | | GS2.401 | Spatial Informatics | 3-1-0-4 | Rajan Krishnan Sundara |
| | | CE1.607 | Earthquake Resistant Design of Masonry Structures | 3-1-0-4 | P Pravin Kumar Venkat Rao |
| | | CE1.610 | Advanced Design of Steel Structures | 3-1-0-4 | Sunitha Palissery |
| | | CS9.428 | Environmental Science & Technology | 3-1-0-4 | Ramachandra Prasad Pillutla |
| | | CE9.600 | CASE Seminar | 0-2-0-2 | Shubham Singhal & Jofin George |
| | | CE1.620 | Structural Safety of Built Infrastructure (H1) | 3-1-0-2 | Jofin George |
| | | CE1.621 | Retrofit of Existing Infrastructure (H2) | 3-1-0-2 | Shubham Singhal |
| | | GS3.403 | Geospatial Technology for Disaster Risk Modelling | 3-1-0-4 | Kiran Chand Thumaty and Rehana Shaik |
| Electives for M.Tech PDM students | | | | | |
| Design Elective | | PD1.501 | Human Computer Interaction (H2) | 3-1-0-2 | Raman Saxena |
| Business Electives | | CS9.429 | Design for Social Innovation | 3-1-0-4 | Ramesh Loganathan + Arjun Rajashekar |
| | | PD2.501 | Product Marketing | 3-1-0-4 | Ravi Warrior |
| Bouquet Courses - Registration Limit: 150 | | | | | |
| Theory | | | | | |
| | | CS1.405 | Modern Complexity Theory (100) | 3-1-0-4 | Ashok Kumar Das |
| | | CS1.402 | Principles of Programming Languages (100) | 3-1-0-4 | Mrityunjay + Venkatesh Choppella |
| Systems | | | | | |
| | | CS3.401 | Distributed Systems (100) | 3-1-0-4 | Kishore Kothapalli |
| | | CS3.402 | Advanced Computer Networks (150) | 3-1-0-4 | Ankit Gangwal |
| Artificial Intelligence | | | | | |
| | | CS7.403 | Statistical Methods in AI (200) | 3-1-0-4 | Ravi Kiran S |
| | | CS4.406 | Information Retrieval & Extraction (100) | 3-1-0-4 | Rahul Mishra |
| | | CS7.501 | Advanced NLP (100) | 3-1-0-4 | Manish Shrivastava |
| | | CS4.405 | Data Analytics I (100) | 3-1-0-4 | Krishna Reddy Polepalli |
| IT + X | | | | | |
| | | CG1.402 | Intro to Cognitive Science (50) | 3-1-0-4 | Vishnu Sreekumar |
| | | GS2.401 | Spatial Informatics (50) | 3-1-0-4 | Rajan Krishnan Sundara |
| CSE/Open Electives | | | | | |
| | | CS8.501 | Research in Information Security | 3-0-1-4 | Ashok Kumar Das + Srinathan K |

| | | | | | |
|---|--|----------|---|---------|--------------------------------------|
| | | CS3.405 | Blockchain and Web3 Development (Max: 40 Students) | 3-1-0-4 | Ankit Gangwal |
| | | CG3.401 | Introduction to Neural and Cognitive Modeling | 3-1-0-4 | Bapiraju Surampudi |
| | | CG3.402 | Behavioral Research & Experimental Design (50) | 3-1-0-4 | Vinoo Alluri |
| | | M24Temp8 | Software Quality Engineering | 3-1-0-4 | Raghu Reddy Y |
| | | CS7.504 | Fairness, Privacy and Ethics in AI (Max:40) | 3-1-0-4 | Sujit P Gujar |
| | | CS9.429 | Design for Social Innovation | 3-1-0-4 | Ramesh Loganathan + Arjun Rajashekar |
| | | CG1.403 | Learning and Memory (Max 70) | 3-1-0-4 | Bhaktee Dongaonkar |
| | | CL2.405 | Speech Analysis and Linguistics | 3-1-0-4 | Chiranjeevi Yarra |
| | | EC5.411 | Modern Coding Theory | 3-1-0-4 | Prasad Krishnan |
| | | CS2.501 | Advanced Computer Architecture | 3-1-0-4 | Suresh Purini |
| | | CG9.600 | Cognitive Science Seminar | 0 Cr | Priyanka Srivastava + Bapi Raju |
| | | EC5.412 | Foundations for Signal Processing and Communication (Open for MS&PhD students) | 3-1-0-4 | Praful Mankar + Arti Yardi |
| | | CS9.440 | Introduction to Remote Sensing | 3-1-0-4 | RC Prasad |
| | | CS1.504 | Quantum Information Theory | 3-1-0-4 | Siddhartha Das |
| | | CS9.428 | Environmental Science & Technology | 3-1-0-4 | Ramachandra Prasad Pillutla |
| Open Electives Only for UG Students | | | | | |
| | | CS3.306 | Algorithms and Operating Systems (Open Elective) Only for UG ECE/D students | 3-1-0-4 | Lini Teresa Thomas |
| | | CE5.502 | Hydrological modelling and Software Development (40) (Open Elective) | 3-1-0-4 | Rehana Shaik |
| | | GS3.403 | Geospatial Technology for Disaster Risk Modelling (Open Elective) | 3-1-0-4 | Kiran Chand Thumaty and Rehana Shaik |
| | | PD1.501 | Human Computer Interaction (H2) | 3-1-0-2 | Raman Saxena |
| | | PD2.501 | Product Marketing | 3-1-0-4 | Ravi Warrior |
| Math Electives (Random selection) Maximum no. of students for the following courses is: 50 each) | | | | | |
| | | CS1.407 | Entropy and Information | 3-1-0-4 | Indranil Chakrabarty |
| | | MA8.401 | Topics in Applied Optimization | 3-1-0-4 | Pawan Kumar |
| Science Electives (Random selection) Max. no of students for each course is given in the brackets | | | | | |
| | | SC3.321 | Biomolecular Structure Interaction & Dynamics (35) Prerequisites: ABA, GSC or equivalent | 3-1-0-4 | B.Gopalakrishnan |
| | | SC1.310 | Open Quantum Systems and Quantum Thermodynamics (40) | 3-1-0-4 | Samyadeb Bhattacharya |
| | | SC1.421 | Introduction to Quantum Field Theory (40) | 3-1-0-4 | Diganta Das + Monalisa Patra |
| | | SC2.401 | Topics in Nanosciences (60) | 3-1-0-4 | Tapan Kumar Sau |
| | | SC2.309 | Chemistry Topics for Engineers (120) | 3-1-0-4 | Tapan Kumar Sau + Prabhakar B |
| | | SC1.415 | Physics of Early Universe (50) | 3-1-0-4 | Diganta Das |
| Humanities Electives for UG3 &UG4 (Random selection) Max. no of students for each course is 40 | | | | | |

| | | | | | |
|--|--|---------|---|---------|---------------------|
| | | HS1.210 | Music Workshop (30) | 3-1-0-4 | Saroja T K |
| | | HS1.208 | Introduction to Film Studies | 3-1-0-4 | Sushmita Banerji |
| | | HS3.201 | Introduction to History | 3-1-0-4 | Isha Dubey |
| | | HS2.202 | Intro to Psychology | 3-1-0-4 | Priyanka Srivastava |
| | | HS4.201 | Introduction to Politics | 3-1-0-4 | Aakansha Natani |
| | | HS0.214 | Introduction to Philosophy | 3-1-0-4 | Saurabh Todariya |
| | | HS5.202 | Introduction to Economics | 3-1-0-4 | Anirban Dasgupta |
| | | HS1.303 | Readings from Hindi Literature | 3-1-0-4 | Harjinder Singh |
| | | HS8.201 | Gender and Society | 3-1-0-4 | Sushmita Banerji |
| | | HS2.303 | Work, Entrepreneurship and Technology in Contemporary Societies | 3-1-0-4 | Rajorshi Ray |

Sd/-

Date:22-06-2024

Dean (Academics)