

Details of Courses for Even Semester, AY 2023-24 (UG)

B.Tech Semester-II

| Course Code | Course Name | L-T-P-C | Offered By Discipline | Offered for | Instructor | No. of Student |
|-------------|--|---------|-----------------------|--------------------|----------------------------|----------------|
| NS103a | ODEs & PDEs | 3-1-0-4 | NS | other then CSE | MKP + DM | 318 |
| NS103b | Probability and Linear Algebra | 3-1-0-4 | NS | for CSE only | BG + NKM | 303 |
| NS1004 | Physics II | 3-1-2-4 | NS | for all Discipline | MKR+YSK+AKK+ACM | 603 |
| HS1002 | Indian Culture, Ethics and Human Values | 2-2-0-3 | LA | for all Discipline | MA (A&B) & JAMF (C, D & E) | 636 |
| DS1005 | Engineering Graphics | 2-0-3-3 | ME | for CSE only | PKJ*+SKC | 306 |
| ES1002 | Fundamentals of Electrical and Electronics Engineering | 3-0-2-4 | ECE | other then CSE | PS+KD* (Lab VB+AK) | 366 |

B.Des Semester-II

| Course Code | Course Name | L-T-P-C | Offered By Discipline | Offered for | Instructor | No. of Student |
|-------------|--|---------|-----------------------|--------------------|----------------------------|----------------|
| DS1006 | Design Fundamentals 2 | 3-0-0-3 | DS | DS | VF | 62 |
| DS1007 | Introduction to Ergonomics in Design | 3-0-0-3 | DS | DS | SP | 63 |
| DS1008 | Software Skills | 0-0-3-2 | DS | DS | VF | 62 |
| HS1002 | Indian Culture, Ethics and Human Values | 2-2-0-3 | LA | for all Discipline | MA (A&B) & JAMF (C, D & E) | 636 |
| ES1002 | Fundamentals of Electrical and Electronics Engineering | 3-0-2-4 | ECE | other then CSE | PS+KD* (Lab VB+AK) | 366 |

Year Long Courses (common for B.Des. and B.Tech.)

| | | | | | | |
|--------|---------------------------------|---|----------------|--|--|--|
| PC1002 | Professional Development Course | 1 | Placement Cell | | | |
|--------|---------------------------------|---|----------------|--|--|--|

B.Tech Semester IV

| Course Code | Course Name | L-T-P-C | Offered By Discipline | Offered for | Instructor | No. of Student |
|---|--|---------|-----------------------|--------------------|---|----------------|
| DC4 | | | | | | |
| CS2009 | IOT and Embedded Systems | 3-0-2-4 | CSE | for CSE | MS-Theory (Batch-A & Batch-B)+ADS-Lab (Batch-A & Batch-B) | 297 |
| EC2005 | Digital Signal Processing | 3-0-2-4 | ECE | for ECE | SNS | 163 |
| ME2005 | Engineering Materials and Characterization | 3-0-0-3 | ME | for ME | KP | 58 |
| SM2005 | Engineering Materials and Characterization | 3-0-0-3 | SM | for SM | HSN | 66 |
| DC5 | | | | | | |
| CS2006 | Operating Systems | 3-0-2-4 | CSE | for CSE | VSR (Batch-A & Batch-B) | 308 |
| EC2006 | Control Systems | 3-0-2-4 | ECE | for ECE | PKP | 141 |
| ME2006 | Kinematics and Dynamics of Machines | 3-1-2-4 | ME | for ME | TS | 60 |
| SM2006 | Kinematics and Dynamics of Machines | 3-1-2-4 | SM | for SM | VKG | 63 |
| DC6 | | | | | | |
| CS2007 | Design & Analysis of Algorithm | 3-0-2-4 | CSE | for CSE | ACP(Batch-A & Batch-B) | 306 |
| EC207a | AI and its application | 2-0-0-2 | ECE | for ECE | SKJ | 154 |
| EC207b | Architecture of Cellular Systems | 2-0-0-2 | ECE | | AtulK | 145 |
| ME2007 | Manufacturing Technology | 3-0-2-4 | ME | for ME | MZA | 59 |
| SM2007 | Cyber Physical Production Systems | 2-0-2-3 | SM | for SM | SA | 61 |
| DC7 | | | | | | |
| CS2008 | Computer Network | 3-1-0-4 | CSE | for CSE | VKJ (Batch-A & Batch-B) | 282 |
| EC2008 | Analog Integrated Circuit | 3-0-2-4 | ECE | for ECE | PNK | 170 |
| ME2008 | Fluid Mechanics and Machines | 3-1-2-4 | ME | for ME | TC | 60 |
| SM2008 | Control Systems | 3-0-2-4 | ME | for SM | SM | 65 |
| OE2 (Choose any one course from below electives) | | | | | | |
| OE2C02 | Discrete Structures | 3-0-0-3 | CSE | for all Discipline | AO | 50 |
| OE2C03 | Language Theory | 3-0-0-3 | CSE | for all Discipline | AS | 43 |
| OE2E03 | Digital System Design | 3-0-0-3 | ECE | for all Discipline | PR | 91 |
| OE2E04 | Introduction to deep learning | 3-0-0-3 | ECE | for all Discipline | AV | 65 |
| OE2M06 | Fundamental of Robotics | 3-0-0-3 | ME | for all Discipline | VKG | 89 |
| OE2S09 | Management Concept and Technology | 3-0-0-3 | ME | for all Discipline | CD | 60 |
| OE3N32 | Material Sciences | 3-0-0-3 | NS | for all Discipline | NKJ | 55 |
| OE2D05 | Packaging Design and Branding | 3-0-0-3 | DS | for all Discipline | VF | 98 |
| OE2D06 | Interface Design | 3-0-0-3 | DS | for all Discipline | VF | 96 |

| | | | | | | |
|--------|-----------------------|---------|----|----------------|--|-----|
| NS2001 | Biology for Engineers | 2-0-0-2 | LA | other then CSE | | 263 |
|--------|-----------------------|---------|----|----------------|--|-----|

IT workshop II

| | | | | | | |
|--------|----------------|---------|-----|---------|-------------------------|-----|
| IT2C02 | IT Workshop II | 0-0-3-2 | CSE | for CSE | ADS (Batch-A & Batch-B) | 282 |
| IT2E02 | IT Workshop II | 0-0-3-2 | ECE | for ECE | TK | 140 |
| IT2M02 | IT Workshop II | 0-0-3-2 | ME | for ME | DSR | 59 |
| IT2S02 | IT Workshop II | 0-0-3-2 | ME | for SM | DSR | 63 |

B.Des Semester-IV

| Course Code | Course Name | L-T-P-C | Offered By Discipline | Offered for | Instructor | No. of Student |
|-------------|--------------------------------------|---------|-----------------------|-------------|------------|----------------|
| DS2009 | Design Research Including User Study | 2-0-2-3 | DS | for B.Des | PM | 59 |
| DS2011 | Industrial Design 2 | 2-0-2-3 | DS | for B.Des | AB | 59 |
| DS2012 | Communication Design 2 | 0-0-6-3 | DS | for B.Des | TS | 60 |
| DS2013 | Design Project 2 | 3-0-2-4 | DS | for B.Des | GUIDE | 59 |
| ME2002 | Manufacturing Process | 3-0-2-4 | ME | for ME | KP | 63 |

OE2 (Choose any one course from below electives)

| | | | | | | |
|--------|-----------------------------------|---------|-----|--------------------|-----|----|
| OE2C02 | Discrete Structures | 3-0-0-3 | CSE | for all Discipline | AO | 50 |
| OE2C03 | Language Theory | 3-0-0-3 | CSE | for all Discipline | AS | 43 |
| OE2E03 | Digital System Design | 3-0-0-3 | ECE | for all Discipline | PR | 91 |
| OE2E04 | Introduction to deep learning | 3-0-0-3 | ECE | for all Discipline | AV | 66 |
| OE2M06 | Fundamental of Robotics | 3-0-0-3 | ME | for all Discipline | VKG | 89 |
| OE2S09 | Management Concept and Technology | 3-0-0-3 | ME | for all Discipline | CD | 60 |
| OE3N32 | Material Sciences | 3-0-0-3 | NS | for all Discipline | NKJ | 55 |
| OE2D05 | Packaging Design and Branding | 3-0-0-3 | DS | for all Discipline | VF | 98 |
| OE2D06 | Interface Design | 3-0-0-3 | DS | for all Discipline | VF | 96 |

Year Long Courses (common for B.Des. and B.Tech.)

| | | | | | |
|--------|---------------------------------|---------|-----------|--|-------------------------|
| PR2002 | Discipline Project | 0-0-0-2 | | | |
| PC2002 | Professional Development Course | 1-0-0-1 | Placement | | COMMON for all students |

| B.Tech Semester VI | | | | | | |
|--|---|---------|-----------------------|--------------------|------------|----------------|
| Course Code | Course Name | L-T-P-C | Offered By Discipline | Offered for | Instructor | No. of Student |
| ES1003 | Innovation Theory and Practice | 1-0-2-2 | | for all Discipline | VF | 545 |
| DS3014 | Fabrication Project | 0-0-8-4 | | for all Discipline | | 504 |
| HS3004 | Ecology and Environment Science | 2-0-0-2 | LA | other then CSE | VF | 269 |
| OE4 (Choose any one course from below electives) | | | | | | |
| CS8011 | Machine Learning | 3-0-0-3 | CSE | for all Discipline | AS | 22+0+3 |
| OE2C10 | Graph Theory | 3-0-0-3 | CSE | for all Discipline | DS | 115+10 |
| OE3E30 | Fibre optics | 3-0-0-3 | ECE | for all Discipline | DKV | 43 |
| EC5011 | Advanced semiconductor devices | 3-0-0-3 | ECE | for all Discipline | KD | 26+3 |
| OE3M31 | Machine Learning and Data Science | 3-0-0-3 | ME | for all Discipline | SA | 62 |
| OE3D12 | Communication Skills Management | 3-0-0-3 | English/LA | for all Discipline | JAMF | 90 |
| OE3N34 | Modern Physics | 3-0-0-3 | NS | for all Discipline | NRJ | 33 |
| OE3D20 | Industrial Design | 3-0-0-3 | DS | for all Discipline | VF | 90 |
| OE5 (Choose any one course from below electives) | | | | | | |
| CS8009 | Image Processing | 3-0-0-3 | CSE | for all Discipline | PK | 31+3 |
| CS8010 | Digital watermarking | 3-0-0-3 | CSE | for all Discipline | DS | 88+9+1 |
| OE3E09 | IC Fabrication | 3-0-0-3 | ECE | for all Discipline | DSP | 32 |
| OE3E32 | Biomedical Instrumentation | 3-0-0-3 | ECE | for all Discipline | vb | 75 |
| OE3M27 | Vibration of Mechanical systems | 3-0-0-3 | ME | for all Discipline | SDP | 41 |
| ME8023 | Computer Aided Manufacturing | 3-0-0-3 | ME | for all Discipline | MS | 34+1+2 |
| OE3D06 | Indian Philosophy and Literature in English | 3-0-0-3 | English/LA | for all Discipline | MA | 88 |
| OE3D21 | Communication Design | 3-0-0-3 | DS | for all Discipline | VF | 110 |
| OE6 (Choose any one course from below electives) | | | | | | |
| CS8020 | Next Generation Networks | 3-0-0-3 | CSE | for all Discipline | ND | 56+7 |
| CS8012 | Compiler Design | 3-0-0-3 | CSE | for all Discipline | SKM | 24 |
| OE3E15 | Information Theory and Coding | 3-0-0-3 | ECE | for all Discipline | MDB | 57 |
| OE3E35 | Speech Processing | 3-0-0-3 | ECE | for all Discipline | AV | 54 |
| OE2M07 | Operations Research | 3-0-0-3 | ME | for all Discipline | CD | 48 |
| OE4M65 | Biomedical Engineering: Fundamentals and Applications | 3-0-0-3 | ME | for all Discipline | HSN | 89 |
| OE3N35 | Advanced Scientific Numerical Methods | 3-0-0-3 | NS | for all Discipline | LKB | 47 |
| OE3D38 | Human Computer Interaction | 3-0-0-3 | DS | for all Discipline | PM | 89 |
| IT workshop IV | | | | | | |
| IT3C03 | IT workshop IV | 0-0-3-2 | CSE | for CSE | AG | 240 |
| IT3E03 | IT workshop IV | 0-0-3-2 | ECE | for CSE | PS+KD | 126 |
| IT3M03 | IT workshop IV | 0-0-3-2 | ME | for CSE | AKS | 56 |
| IT3S03 | IT workshop IV | 0-0-3-2 | ME | for CSE | AKS | 47 |
| B.Des Semester-VI | | | | | | |
| Course Code | Course Name | L-T-P-C | Offered By Discipline | Offered for | Instructor | No. of Student |
| ES1003 | Innovation Theory and Practice | 1-0-2-2 | | for all Discipline | VF | 545 |
| DS3014 | Fabrication Project | 0-0-8-4 | | | GUIDE | 504 |
| HS3004 | Ecology and Environment Science | 2-0-0-2 | LA | Other then CSE | | 269 |
| DS3015 | Design Forecasting and Trend Research | 3-0-0-3 | DS | | VF | 46 |
| OE4 (Choose any one course from below electives) | | | | | | |
| CS8011 | Machine Learning | 3-0-0-3 | CSE | for all Discipline | AS | 22+0+3 |
| OE2C10 | Graph Theory | 3-0-0-3 | CSE | for all Discipline | DS | 115+10 |
| OE3E30 | Fibre optics | 3-0-0-3 | ECE | for all Discipline | DKV | 43 |
| EC5011 | Advanced semiconductor devices | 3-0-0-3 | ECE | for all Discipline | KD | 26+3 |
| OE3M31 | Machine Learning and Data Science | 3-0-0-3 | ME | for all Discipline | SA | 62 |
| OE3D12 | Communication Skills Management | 3-0-0-3 | English/LA | for all Discipline | JAMF | 90 |
| OE3N34 | Modern Physics | 3-0-0-3 | NS | for all Discipline | NRJ | 33 |
| OE3D20 | Industrial Design | 3-0-0-3 | DS | for all Discipline | VF | 90 |
| OE5 (Choose any one course from below electives) | | | | | | |
| CS8009 | Image Processing | 3-0-0-3 | CSE | for all Discipline | PK | 31+3 |
| CS8010 | Digital watermarking | 3-0-0-3 | CSE | for all Discipline | DS | 88+9+1 |
| OE3E09 | IC Fabrication | 3-0-0-3 | ECE | for all Discipline | DSP | 32 |
| OE3E32 | Biomedical Instrumentation | 3-0-0-3 | ECE | for all Discipline | vb | 75 |
| OE3M27 | Vibration of Mechanical systems | 3-0-0-3 | ME | for all Discipline | SDP | 41 |
| ME8023 | Computer Aided Manufacturing | 3-0-0-3 | ME | for all Discipline | MS | 34+1+2 |
| OE3D06 | Indian Philosophy and Literature in English | 3-0-0-3 | English/LA | for all Discipline | MA | 88 |
| OE3D21 | Communication Design | 3-0-0-3 | DS | for all Discipline | VF | 110 |
| OE6 (Choose any one course from below electives) | | | | | | |
| CS8020 | Next Generation Networks | 3-0-0-3 | CSE | for all Discipline | ND | 56+7 |
| CS8012 | Compiler Design | 3-0-0-3 | CSE | for all Discipline | SKM | 24 |
| OE3E15 | Information Theory and Coding | 3-0-0-3 | ECE | for all Discipline | MDB | 57 |
| OE3E35 | Speech Processing | 3-0-0-3 | ECE | for all Discipline | AV | 54 |
| OE2M07 | Operations Research | 3-0-0-3 | ME | for all Discipline | CD | 48 |
| OE4M65 | Biomedical Engineering: Fundamentals and Applications | 3-0-0-3 | ME | for all Discipline | HSN | 89 |
| OE3N35 | Advanced Scientific Numerical Methods | 3-0-0-3 | NS | for all Discipline | LKB | 47 |
| OE3D38 | Human Computer Interaction | 3-0-0-3 | DS | for all Discipline | PM | 89 |
| Year Long Courses (Common for B.Des. and B.Tech.) | | | | | | |
| PR3003 | Optional Project | 0-0-0-2 | | | | |
| PC3003 | Professional Development Course | 1-0-0-1 | Placement | | | |

| B.Tech Semester VIII | | | | | | |
|--|--|----------------|-----------------------|----------------------|------------|----------------|
| Course Code | Course Name | L-T-P-C | Offered By Discipline | Offered for | Instructor | No. of Student |
| OE13 (Choose any one course from below elective) | | | | | | |
| CS8027 | Distributed Systems | 3-0-0-3 | CSE | For all BTP Students | ND | 37+5+2 |
| CS8026 | Natural Language Processing | 3-0-0-3 | CSE | For all BTP Students | AG | 14+6 |
| EC8025 | Wavelet and Filter Bank | 3-0-0-3 | ECE | For all BTP Students | AK | 23+0+5 |
| ME8011 | Mechanic of Composite Materials and Applications | 3-0-0-3 | ME | For all BTP Students | SDP | 37 |
| ME8024 | Hybrid Energy Systems | 3-0-0-3 | ME | For all BTP Students | TC | 26+0+3 |
| OEE14 (Choose any one course from below elective) | | | | | | |
| CS8015 | Computer Vision with Deep Learning | 3-0-0-3 | CSE | For all BTP Students | PK | 22+2+1 |
| CS8030 | Blockchain Technology and Applications | 2-0-2-3 | CSE | For all BTP Students | AO | 16+6 |
| EC8021 | Fundamentals of 5G and beyond 5G Mobile Network | 3-0-0-3 | ECE | For all BTP Students | AtulK+MDB | 38 |
| ME8007 | Smart Materials and Structures | 3-0-0-3 | ME | For all BTP Students | SM | 47+1 |
| BTP4001 | BTP | 9 | | | | |
| OR | | | | | | |
| PR4001 | Project-based Internship (15C) | 15 | | | | |
| B.Des Semester-VIII | | | | | | |
| Course Code | Course Name | Credit | Offered By Discipline | Offered for | Instructor | No. of Student |
| DS497 | Design Seminar II | 2 | DS | | GUIDE | 54 |
| DS499 | Design Thesis II | 15 | DS | | GUIDE | 54 |
| Year Long Courses (Common for B.Des. and B.Tech.) | | | | | | |
| PC4004 | Professional Development Course | 1-0-0-1 | Placement | | | |

DC Discipline Core (All students of that discipline should register for the course)
Those who have already done the course can not take the course