| | | | | B.Tech Semester-I | - 11 | | |
|--|--|--|---|--|---|--|---|
| | | | Offered By | B. IECH SEMESTER-I | | | |
| Course Code | Course Name | L-T-P-C | Discipline | | Instructor | No. of register students | Remarks |
| NS1001 | Mathematics-I (4 Sections) | 3-1-0-4 | NS | | SSL+LKB+NKM+DM | | Common for all |
| NS1002 | Engineering Mechanics (4 Sections) | 2-1-2-4 | NS | | ACM+NRJ+NKJ+AKK | | Common for all |
| HS1001 | Effective Communications (4 Sections) | 1-2-0-2 | LA | | MA- Batch C,D,E | | Common for all |
| | Introduction to Programming In C 02 Batches | 2-0-3-3 | | | JAMF- Batch- A& B YTD + | | |
| IT1001 | | | CSE | | Mr. Aditya Sharma-Lab | | only for CSE |
| IT1002 | Introduction to Programming In Python | 2-0-3-3 | ECE | | AV | | only for ECE |
| IT1002 | Introduction to Programming In Python (02 Batches) | 2-0-3-3 | ME | | SKC+RP [Lab: SKC+RP] | | Common for ME, SM and |
| ES1002 | Fundamentals of Electrical and Electronics Engineering | 3-0-2-4 | ECE | | PKP+PR | | only for CSE |
| DS1005 | Engineering Graphics (02 Batches) | 2-0-3-3 | ME | | MKT+SGM [Lab: MKT+SGM+PSK+ARR] | | Common for ECE,ME,SM an |
| CS1001 | Introduction to Profession (02 Batches) | 1-0-0-1 | CSE | | VKJ | | Common for CSE |
| 561001 | Internet and the Destination | 1-0-0-1 | FOF | | DNIK | | Common for ECE |
| EC1001 | Introduction to Profession | | ECE | | PNK | | |
| ME1001 | Introduction to Profession | 1-0-0-1 | ME | | MZA | | Common for ME |
| SM1001 | Introduction to Profession | 1-0-0-1 | ME | | MZA | | Common for SM |
| | | | | B.Des Semester-I | | | |
| Course Code | Course Name | L-T-P-C | Offered By Discipline | | Instructor | No. of register students | |
| DS1002 | Design Fundamentals 1 | 2-0-2-3 | Discipline | | PM | | Common for Design |
| DS1002 DS1003 | Design Drawing | 1-0-3-2 | DS | | VF | | Common for Design |
| | | | | | | | - |
| DS1004 | Representation Technique | 2-0-2-3 | DS | | VF | | Common for Design |
| DS1005 | Engineering Graphics (02 Batches) | 2-0-3-3 | ME | | MKT+SGM [Lab: MKT+SGM+PSK+ARR] | | Common for ECE,ME,SM an |
| HS1001 | Effective Communications (4 Sections) | 1-2-0-2 | LA | | MA- Batch C,D,E JAMF- Batch- A& B | | Common for all |
| IT1002 | Introduction to Programming In Python (02 Batches) | 2-0-3-3 | ME | | SKC+RP [Lab: SKC+RP] | | Common for ME, SM and |
| DS1001 | Introduction to Programming in Pytion (02 baches) | 1-0-0-1 | DS | | PM | | Common for Design |
| | | 1001 | | | | | common for Design |
| | | | - | g Courses (common for B.Des. and I | B.Tech.) | | |
| ES1003 PC1001 | Innovation Theory and Practice Professional Development Course | 1-0-2-2 | IA PLACEMENT | | | | To be checked with IIC & F To be given by Placemer |
| 101001 | | 1-0-0-1 | PACEMENT | B.Tech Semester III | | | To be given by Hatemen |
| | | | Offered By | | | | |
| Course Code | Course Name | L-T-P-C | Discipline | Pre-requisites for Elective courses | Instructor | No. of register students | |
| NS2001 | Biology for Engineers | 2-0-0-2 | LA | | | 282 | For CSE only |
| IT2001 | Data Structure in C (02 Batches) | 3-0-2-4 | CSE | | SKM | 282 | For CSE only |
| IT2002 | Data Structure in Python | 3-0-2-4 | ECE | | VF | 141 | Common for ECE |
| IT2002 | Data Structure in Python | | ME, SM & DS | | VF | 177 | Common for ME, SM & I |
| C1 (Discipline Cor | e 1) | | | | | | |
| CS2002 | Computer Organization and Architecture (02 Batches) | 3-0-0-3 | CSE | | YTD | 287 | Common for CSE |
| CS2002 EC2002 | Computer Organization and Architecture (02 Batches) Digital Electronics and Microprocessor Interfacing | 3-0-2-4 | ECE | | SKJ | 141 | Common for ECE |
| CS2002 EC2002 ME2002 | Computer Organization and Architecture (02 Batches) Digital Electronics and Microprocessor Interfacing Manufacturing Process | 3-0-2-4 3-0-2-4 | ECE ME | | SKJ HSN | 141 66 | Common for ECE Common for ME & SM |
| CS2002 EC2002 ME2002 SM2002 | Computer Organization and Architecture (02 Batches) Digital Electronics and Microprocessor Interfacing Manufacturing Process Manufacturing Process | 3-0-2-4 | ECE | | SKJ | 141 | Common for ECE Common for ME & SM |
| CS2002 EC2002 ME2002 SM2002 | Computer Organization and Architecture (02 Batches) Digital Electronics and Microprocessor Interfacing Manufacturing Process Manufacturing Process | 3-0-2-4 3-0-2-4 | ECE ME | | SKJ HSN | 141 66 | Common for ECE Common for ME & SM |
| CS2002 EC2002 ME2002 SM2002 C2 (Discipline Cor | Computer Organization and Architecture (02 Batches) Digital Electronics and Microprocessor Interfacing Manufacturing Process Manufacturing Process e 2) | 3-0-2-4 3-0-2-4 3-0-2-4 | ECE ME SM | | SKJ HSN PT | 141 66 57 | Common for ECE Common for ME & SM Common for ME & SM |
| CS2002 EC2002 ME2002 SM2002 C (Discipline Cor CS2003 EC203a EC203a | Computer Organization and Architecture (02 Batches) Digital Electronics and Microprocessor Interfacing Manufacturing Process Manufacturing Process e 2) Database Management Systems (02 Batches) | 3-0-2-4 3-0-2-4 3-0-2-4 3-0-2-4 | ECE ME SM CSE ECE ECE | | SKJ HSN PT PK ST MSP | 141 66 57 287 141 141 | Common for ECE Common for ME & SM Common for ME & SM Common for CSE Common for ECE Common for ECE |
| CS2002 EC2002 ME2002 SM2002 C2 (Discipline Cor CS2003 EC203a | Computer Organization and Architecture (02 Batches) Digital Electronics and Microprocessor Interfacing Manufacturing Process Manufacturing Process e 2) Database Management Systems (02 Batches) Principle of Analog Communications | 3-0-2-4 3-0-2-4 3-0-2-4 3-0-2-4 2-0-0-2 | ECE ME SM CSE ECE | | SKJ HSN PT PK ST | 141 66 57 287 141 | Common for ECE Common for ME & SM Common for ME & SM Common for CSE Common for ECE |
| CS2002 EC2002 ME2002 SM2002 C (Discipline Cor CS2003 EC203a EC203b ME2003 SM2003 | Computer Organization and Architecture (02 Batches) Digital Electronics and Microprocessor Interfacing Manufacturing Process Manufacturing Process e 2) Database Management Systems (02 Batches) Principle of Analog Communications Network Theory (Analysis and Synthesis) Solid Mechanics Solid Mechanics + Design of Mechanical Components | 3-0-2-4 3-0-2-4 3-0-2-4 2-0-0-2 2-0-0-2 | ECE ME SM CSE ECE ECE | | SKJ HSN PT PK ST MSP | 141 66 57 287 141 141 | Common for ECE Common for ME & SM Common for ME & SM Common for CSE Common for ECE Common for ECE |
| CS2002 EC2002 ME2002 SM2002 C (Discipline Cor CS2003 EC203a EC203b ME2003 SM2003 C3 (Discipline Cor | Computer Organization and Architecture (02 Batches) Digital Electronics and Microprocessor Interfacing Manufacturing Process Manufacturing Process e 2) Database Management Systems (02 Batches) Principle of Analog Communications Network Theory (Analysis and Synthesis) Solid Mechanics Solid Mechanics + Design of Mechanical Components e 3) | 3-0-2-4 3-0-2-4 3-0-2-4 2-0-0-2 2-0-0-2 2-2-2-4 3-1-2-4 | ECE ME SM CSE ECE ECE ME SM | | SKJ HSN PT PK ST MSP VKG SDP | 141 66 57 287 141 141 66 57 | Common for ECE Common for ME & SM Common for ME & SM Common for CSE Common for ECE Common for ECE Common for ME Common for SM |
| CS2002 EC2002 ME2002 SM2002 C2 (Discipline Cor CS2003 EC203a EC203a EC203b ME2003 S3 (Discipline Cor CS2004 | Computer Organization and Architecture (02 Batches) Digital Electronics and Microprocessor Interfacing Manufacturing Process e 2) Database Management Systems (02 Batches) Principle of Analog Communications Network Theory (Analysis and Synthesis) Solid Mechanics Solid Mechanics e 3) Introduction to Data Science 02 Batches | 3-0-2-4 3-0-2-4 3-0-2-4 2-0-0-2 2-0-0-2 2-2-2-4 3-1-2-4 3-0-2-4 | ECE ME SM CSE ECE ECE ECE SM CSE | | SKJ HSN PT PK ST MSP VKG SDP YTD | 141 66 57 287 141 141 141 66 57 287 | Common for ECE Common for ME & SM Common for ME & SM Common for CSE Common for ECE Common for ECE Common for ME Common for SM |
| CS2002 EC2002 ME2002 SM2002 2 (Discipline Cor CS2003 EC203a EC203b ME2003 SM2003 3 (Discipline Cor CS2004 EC2024 | Computer Organization and Architecture (02 Batches) Digital Electronics and Microprocessor Interfacing Manufacturing Process Manufacturing Process e 2) Database Management Systems (02 Batches) Principle of Analog Communications Network Theory (Analysis and Synthesis) Solid Mechanics Solid Mechanics + Design of Mechanical Components e 3) | 3-0-2-4 3-0-2-4 3-0-2-4 2-0-0-2 2-0-0-2 2-2-2-4 3-1-2-4 3-0-2-4 2-0-0-2 | ECE ME SM CSE ECE ECE ECE SM CSE ECE | | SKJ HSN PT PK ST MSP VKG SDP YTD TK | 141 66 57 287 141 141 66 57 | Common for ECE Common for ME & SM Common for ME & SM Common for CSE Common for ECE Common for ECE Common for ME Common for SM |
| CS2002 EC2002 ME2002 SM2002 C2 (Discipline Cor CS2003 EC203a EC203a EC203b ME2003 S3 (Discipline Cor CS2004 | Computer Organization and Architecture (02 Batches) Digital Electronics and Microprocessor Interfacing Manufacturing Process Manufacturing Process e 2) Database Management Systems (02 Batches) Principle of Analog Communications Network Theory (Analysis and Synthesis) Solid Mechanics Solid Mechanics + Design of Mechanical Components e 3) Introduction to Data Science 02 Batches Electronics Devices and Circuits | 3-0-2-4 3-0-2-4 3-0-2-4 2-0-0-2 2-0-0-2 2-2-2-4 3-1-2-4 3-0-2-4 | ECE ME SM CSE ECE ECE ECE SM CSE | | SKJ HSN PT PK ST MSP VKG SDP YTD | 141 66 57 287 141 141 66 57 287 141 | Common for ECE Common for ME & SM Common for ME & SM Common for CSE Common for ECE Common for ECE Common for SM Common for SM |
| CS2002 EC2002 ME2002 SM2002 2 (Discipline Cor CS2003 EC203a EC203b ME2003 SM2003 3 (Discipline Cor CS2004 EC204a EC204b ME2004 | Computer Organization and Architecture (02 Batches) Digital Electronics and Microprocessor Interfacing Manufacturing Process Manufacturing Process e 2) Database Management Systems (02 Batches) Principle of Analog Communications Network Theory (Analysis and Synthesis) Solid Mechanics Solid Mechanics + Design of Mechanical Components e 3) Introduction to Data Science 02 Batches Electronics Devices and Circuits Instrumentation and Measurement Engineering Thermodynamics | 3-0-2-4 3-0-2-4 3-0-2-4 2-0-0-2 2-0-0-2 2-2-2-4 3-1-2-4 3-0-2-4 2-0-0-2 2-0-0-2 | ECE ME SM CSE ECE ECE SM CSE ECE ECE ME | | SKJ HSN PT PK ST MSP VKG SDP YTD TK PS PSK | 141 66 57 287 141 141 66 57 287 141 141 66 | Common for ECE Common for ME & SM Common for ME & SM Common for CSE Common for ECE Common for KE Common for SM Common for CSE Common for ECE Common for ECE Common for CEE |
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| CS2002 EC2002 ME2002 SM2002 2 (Discipline Cor CS2003 EC203a EC203a SM2003 3 (Discipline Cor CS2004 EC204a EC204b ME2004 SM2004 SM2004 11 (Choose any of | Computer Organization and Architecture (02 Batches) Digital Electronics and Microprocessor Interfacing Manufacturing Process Manufacturing Process e 2) Database Management Systems (02 Batches) Principle of Analog Communications Network Theory (Analysis and Synthesis) Solid Mechanics Solid Mechanics + Design of Mechanical Components e 3) Introduction to Data Science 02 Batches Electronics Devices and Circuits Instrumentation and Measurement Engineering Thermodynamics | 3-0-2-4 3-0-2-4 3-0-2-4 2-0-0-2 2-0-0-2 2-2-2-4 3-1-2-4 3-0-2-4 2-0-0-2 2-0-0-2 3-0-0-2 3-2-0-4 | ECE ME SM CSE ECE ECE SM CSE ECE ECE ECE ME SM | Pre-requisites is not remiired | SKJ HSN PT PK ST MSP VKG SDP YTD TK PS PSK TC | 141 66 57 287 141 141 66 57 287 141 141 66 | Common for ECE Common for ME & SM Common for ME & SM Common for CSE Common for ECE Common for ECE Common for SM Common for SM Common for ECE Common for ECE Common for ECE Common for ECE |
| CS2002 EC2002 ME2002 SM2002 COscipline Cor CS2003 EC203a EC203b ME2003 SM2003 CS2004 EC204a EC204b ME2004 SM2004 SM2004 SM2004 SM2004 | Computer Organization and Architecture (02 Batches) Digital Electronics and Microprocessor Interfacing Manufacturing Process e 2) Database Management Systems (02 Batches) Principle of Analog Communications Network Theory (Analysis and Synthesis) Solid Mechanics Solid Mechanics + Design of Mechanical Components e 3) Introduction to Data Science 02 Batches Electronics Devices and Circuits Instrumentation and Measurement Engineering Thermodynamics + Heat Transfer ne course from below electives) Discrete Structures | 3-0-2-4 3-0-2-4 3-0-2-4 2-0-0-2 2-0-0-2 2-2-2-4 3-1-2-4 3-0-2-4 2-0-0-2 2-0-0-2 2-0-0-2 3-2-0-4 3-1-0-4 3-0-0-3 | ECE ME SM CSE ECE ECE ME SM CSE ECE ECE ECE SM CSE | Pre-requisites is not required Pre-requisites is not required | SKJ HSN PT PK ST MSP VKG SDP YTD TK PS PSK TC AO | 141 66 57 287 141 141 66 57 287 141 141 66 57 287 141 141 66 57 | Common for ECE Common for ME & SM Common for ME & SM Common for CSE Common for ECE Common for ECE Common for SM Common for SM Common for CSE Common for ECE Common for ECE Common for ME Common for SM |
| CS2002 EC2002 ME2002 SM2002 Closcipline Cor CS2003 EC203b ME2003 SM2003 CS2004 EC204b EC204b ME2004 SM2004 CS2004 EC204b ME2004 SM2004 CS2004 EC204b ME2004 SM2004 CS2004 | Computer Organization and Architecture (02 Batches) Digital Electronics and Microprocessor Interfacing Manufacturing Process e 2) Database Management Systems (02 Batches) Principle of Analog Communications Network Theory (Analysis and Synthesis) Solid Mechanics Solid Mechanics + Design of Mechanical Components e 3) Introduction to Data Science 02 Batches Electronics Devices and Circuits Instrumentation and Measurement Engineering Thermodynamics Engineering Thermodynamics + Heat Transfer e course from below electives) Discrete Structures Introduction to Sensors and Actuators | 3-0-2-4 3-0-2-4 3-0-2-4 2-0-0-2 2-2-0-0-2 2-2-2-4 3-1-2-4 3-0-2-4 2-0-0-2 2-0-0-2 3-2-0-4 3-1-0-4 3-0-0-3 3-0-0-3 | ECE ME SM CSE ECE ECE ME SM CSE ECE SM CSE ECE | Pre-requisites is not required | SKJ HSN PT PK ST MSP VKG SDP YTD TK PS PSK TC AO KD | 141 66 57 287 141 141 66 57 287 141 141 66 57 287 141 141 66 57 | Common for ECE Common for ME & SM Common for ME & SM Common for CSE Common for ECE Common for ECE Common for SM Common for SM Common for CSE Common for ECE Common for ECE Common for SM Open for all Open for all |
| CS2002 EC2002 ME2002 SM2002 C2 (Discipline Cor CS2003 EC203a EC203b ME2003 SM2003 C3 (Discipline Cor CS2004 EC204b ME2004 SM2004 EC204b ME2004 SM2004 E1 (Choose any on OE2C09 OE2E01 OE2E03 | Computer Organization and Architecture (02 Batches) Digital Electronics and Microprocessor Interfacing Manufacturing Process Manufacturing Process e 2) Database Management Systems (02 Batches) Principle of Analog Communications Network Theory (Analysis and Synthesis) Solid Mechanics Solid Mechanics + Design of Mechanical Components e 3) Introduction to Data Science 02 Batches Electronics Devices and Circuits Instrumentation and Measurement Engineering Thermodynamics Engineering Thermodynamics + Heat Transfer me course from below electives) Discrete Structures Introduction to Sensors and Actuators Fundamentals of Signals and Systems | 3-0-2-4 3-0-2-4 3-0-2-4 3-0-2-4 2-0-0-2 2-2-2-4 3-1-2-4 3-0-2-2 2-0-0-2 3-2-0-4 3-1-0-4 3-0-0-3 3-0-0-3 3-0-0-3 | ECE ME SM CSE ECE ECE ME SM CSE ECE ECE SM CSE ECE ECE ECE | Pre-requisites is not required Pre-requisites is not required | SKJ HSN PT PK ST MSP VKG SDP YTD TK PS PSK TC AO KD AK | 141 66 57 287 141 141 66 57 287 141 141 66 57 287 141 141 66 57 120 90 44 | Common for ECE Common for ME & SM Common for ME & SM Common for CSE Common for ECE Common for ECE Common for SM Common for SM Common for CSE Common for ECE Common for ECE Common for SM Open for all Open for all |
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| CS2002 EC2002 ME2002 SM2002 C2 (Discipline Cor CS2003 EC203a EC203a SM2003 C3 (Discipline Cor CS2004 EC204a EC204b ME2004 SM2004 EC204b ME2004 SM2004 E1 (Choose any or OE2C01 OE2E03 OE2E01 OE2E03 | Computer Organization and Architecture (02 Batches) Digital Electronics and Microprocessor Interfacing Manufacturing Process Manufacturing Process e 2) Database Management Systems (02 Batches) Principle of Analog Communications Network Theory (Analysis and Synthesis) Solid Mechanics Solid Mechanics Solid Mechanics + Design of Mechanical Components e 3) Introduction to Data Science 02 Batches Electronics Devices and Circuits Instrumentation and Measurement Engineering Thermodynamics Engineering Thermodynamics Engineering Thermodynamics Discrete Structures Introduction to Sensors and Actuators Fundamentals of Signals and Systems Operations Research Probablistic Approaches to Machine Learning | 3-0-2-4 3-0-2-4 3-0-2-4 2-0-0-2 2-0-0-2 2-2-2-4 3-1-2-4 3-0-2-4 2-0-0-2 3-2-0-4 3-1-0-4 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 | ECE ME SM CSE ECE ECE ME SM CSE ECE ECE ECE ECE ECE ECE ECE ECE SM | Pre-requisites is not required Pre-requisites is not required Pre-requisites is not required Pre-requisites is not required | SKJ HSN PT PK ST MSP VKG SDP YTD TK PS PSK TC AO KD AK SKC SA | 141 66 57 287 141 141 66 57 287 141 141 66 57 120 90 44 62 90 | Common for ECE Common for ME & SM Common for ME & SM Common for CSE Common for ECE Common for ECE Common for SM Common for SM Common for CSE Common for ECE Common for ECE Common for SM Open for all Open for all Open for all Open for all |
| EC2002 ME2002 SM2002 C2 (Discipline Cor CS2003 EC203a EC203a SM2003 C3 (Discipline Cor CS2004 EC204a EC204b ME2004 SM2004 E1 (Chosse any or OE2C09 OE2E01 OE | Computer Organization and Architecture (02 Batches) Digital Electronics and Microprocessor Interfacing Manufacturing Process Manufacturing Process e 2) Database Management Systems (02 Batches) Principle of Analog Communications Network Theory (Analysis and Synthesis) Solid Mechanics Solid Mechanics Solid Mechanics + Design of Mechanical Components e 3) Introduction to Data Science 02 Batches Electronics Devices and Circuits Instrumentation and Measurement Engineering Thermodynamics + Heat Transfer me course from below electives) Discrete Structures Introduction to Sensors and Actuators Fundamentals of Signals and Systems Operations Research Probablistic Approaches to Machine Learning Numerical Methods for Engineers | 3-0-2-4 3-0-2-4 3-0-2-4 2-0-0-2 2-0-0-2 2-2-2-4 3-1-2-4 3-0-2-4 2-0-0-2 3-2-0-4 3-1-0-4 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 | ECE ME SM CSE ECE ECE SM CSE ECE ECE ECE ECE ECE ECE ECE ECE SM NS | Pre-requisites is not required Pre-requisites is not required Pre-requisites is not required Pre-requisites is not required Pre-requisites is not required | SKJ HSN PT PK ST MSP VKG SDP YTD TK PS PSK TC AO KD AK SKC SA MKP | 141 66 57 287 141 141 66 57 287 141 141 66 57 120 90 44 62 90 78 | Common for ECE Common for ME & SM Common for ME & SM Common for CSE Common for ECE Common for ECE Common for SM Common for CSE Common for ECE Common for ECE Common for ECE Common for FCE Common for SM Open for all Open for all Open for all Open for all Open for all Open for all |
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| OE1 (Choose any o | ne course from below electives) | | | | | | |
|-------------------|---|---------|------------|--------------------------------|-----|-----|--------------|
| OE2C09 | Discrete Structures | 3-0-0-3 | CSE | Pre-requisites is not required | AO | 120 | Open for all |
| OE2E01 | Introduction to Sensors and Actuators | 3-0-0-3 | ECE | Pre-requisites is not required | KD | 90 | Open for all |
| OE2E03 | Fundamentals of Signals and Systems | 3-0-0-3 | ECE | Pre-requisites is not required | AK | 44 | Open for all |
| OE2M07 | Operations Research | 3-0-0-3 | ME | Pre-requisites is not required | SKC | 62 | Open for all |
| OE2M09 | Probablistic Approaches to Machine Learning | 3-0-0-3 | SM | Pre-requisites is not required | SA | 90 | Open for all |
| OE2N12 | Numerical Methods for Engineers | 3-0-0-3 | NS | Pre-requisites is not required | MKP | 77 | Open for all |
| OE2N13 | Semiconductor Optoelectronic Devices | 3-0-0-3 | NS | Pre-requisites is not required | YSK | 35 | Open for all |
| OE2D14 | SCIENCE AND CULTURE - A COMPARISON | 3-0-0-3 | English/LA | Pre-requisites is not required | MA | 90 | Open for all |
| | | | | | | | |

| | Year Long Courses (common for B.Des. and B.Tech.) | | | | | | |
|---------------------|---|--------------------|-------------------|--|-------------------|--------------------------|------------------------------------|
| PR2002 | Discipline Project | 0-0-0-2 | | | | | Specific to Discipline |
| PC2002 | Professional Development Course | 1-0-0-1 | Placement | | | | To be given by Placement |
| | | | | B.Tech Semester V | | | |
| Course Code | Course Name | L-T-P-C | Offered By | Pre-requisites for Elective courses | Instructor | No. of register students | |
| HS3004 | Ecology & Environment Science | | Discipline LA | The requisites for Elective courses | instructor | 281 | CCE Only |
| DS3004 | Engineering Design –Including Design and Fabrication Project | 2-0-0-2 1-0-6-4 | LA | | | 597 | CSE Only Common for all |
| 033001 | | 1-0-0-4 | | | | 337 | common for all |
| DC8 (Discipline Cor | re 8) | | | | | | |
| CS3009 | Network Security & Cryptography (02 Batches) | 3-0-0-3 | CSE | | YTD | 281 | Common for CSE |
| EC3009 | VLSI System Design (VLSI IC desien, logic synthesis using VHDL) | 3-0-0-3 | ECE | | PR | 140 | Common for ECE |
| ME3009 | Design of Mechanical Components | 2-2-0-3 | ME | | KP | 57 | Common for ME |
| SM3009 | Additive and Subtractive Manufacturing Processes | 2-0-2-3 | SM | | КР | 61 | Common for SM |
| DC9 (Discipline Cor | re 9) | | | | | | |
| CS3010 | Software Engineering (02 Batches) | 3-0-2-4 | CSE | | AG | 281 | Common for CSE |
| EC3010 | Fundamentals of Electromagnetic Theory | 3-0-0-3 | ECE | | DKV | 140 | Common for ECE |
| ME3010 | Industrial Internet of Things | 2-0-2-3 | ME | | MZA | 57 | Common for ME |
| SM3010 | Computer Aided Product Development | 2-0-2-3 | SM | | ARR | 61 | Common for SM |
| DC10 (Discipline Co | ore 10) | | | | | | |
| C\$3011 | Artificial Intelligence (02 Batches) | 3-0-0-3 | CSE | | DS | 281 | Common for CSE |
| EC3011 | Digital Communications | 3-0-0-3 | ECE | | MDB | 140 | Common for ECE |
| ME3011 | Heat Transfer | 3-0-2-4 | ME | | TC | 57 | Common for ME |
| SM3011 | Industrial Automation | 2-0-2-3 | SM | | TS | 61 | Common for SM |
| DC11 (Discipline Co | ore 11) | | | | | | |
| SM3012 | Advanced Cyber Physical System | 2-0-2-3 | ME | | SKS | 61 | Common for SM |
| 050 (0) | | | | | | | |
| | ne course from below elective) | | | CS2002 - Computer Organization and | | | |
| CS8028 | Hardware Security (02 Batches) | 3-0-0-3 | CSE | Architecture | VSR | 254 | Those who have done pre-requisites |
| OE3E40 | Computation Genomic & Proteomic | 3-0-0-3 | ECE | MATLAB/C++/Python and Biology for Engineers | SNS | 90 | Those who have done pre-requisites |
| OE4E50 | Detection and Estimation Theory | 3-0-0-3 | ECE | (OE2E02)Probability and random Process | ST | 44 | Those who have done pre-requisites |
| OE3M26 | Computer-Aided Design (CAD) | 3-0-0-3 | ME | ME2002/SM2002 | MS | 13 | Those who have done pre-requisites |
| OE4M23 | Business Analytics using R | 3-0-0-3 | SM | ME2007/SM2007/OE2M07 | SA | 82 | Those who have done pre-requisites |
| OE3N36 | Probability and Statistics | 3-0-0-3 | NS | Only for ECE, ME & SM Discipline | BG | 44 | Those who have done pre-requisites |
| OE3D16 | Visual Ergonomics | 2-0-2-3 | DS | DS1002- Design Fundamentals 1 and | PM | 58 | Those who have done pre-requisites |
| | | | | DS1006 - Design Fundamentals II | | | |
| IT workshop III | | | | | | | |
| IT3C01 | IT workshop III | 0-0-3-2 | CSE | | Mr. Aditya Sharma | 281 | |
| IT3E01 IT3M01 | IT workshop III IT workshop III | 0-0-3-2 0-0-3-2 | ECE ME | | KD AKS | 140 57 | |
| IT3001 | IT workshop III | 0-0-3-2 | ME | | AKS | 61 | |
| | | 0052 | IVIE | B.Des Semester-V | ANJ | 01 | |
| Course Code | Course Name | L-T-P-C | Offered By | Pre-requisites for Elective courses | Instructor | No. of register students | |
| course code | Course Name | L-1-F-C | Discipline | Pre-requisites for Elective courses | instructor | No. of register students | |
| DS3001 | Engineering Design –Including Design and Fabrication Project | 1-0-6-4 | Not Applicable | | | 597 | Common for all |
| DS3009 | Service Design | 2-0-2-3 | DS | | SP | 58 | |
| D\$3010 | Sustainable Design | 2-0-2-3 | DS | | AB | 58 | |
| D\$3011 | Design Management | 2-0-2-3 | DS | | VF | 58 | |
| | | | | | | | |
| D\$3012 | Design Project 4 (compulsory) | 0-0-6-3 | DS | | GUIDE | 58 | |
| 052 (Chassa | | | | | | | |
| | ne course from below elective) | 2005 | | CS2002 - Computer Organization and | 1/2- | | - |
| CS8028 | Hardware Security (02 Batches) | 3-0-0-3 | CSE | Architecture | VSR | 254 | Those who have done pre-requisites |
| OE3E40 | Computation Genomic & Proteomic | 3-0-0-3 | ECE | MATLAB/C++/Python and Biology for Engineers | SNS | 90 | Those who have done pre-requisites |
| OF4E50 | Detection and Estimation Theory | 3-0-0-3 | FCF | (OE2E02)Probability and random Process | ST | 44 | Those who have done pre-requisites |

Optional specific to discipline PC3003 Professional Development Course 1-0-0-1 Placement Common for all B.Tech Semester VII Offered By L-T-P-C Instructor Course Code Course Name Pre-requisites for Elective courses No. of register students Discipline OE07 (Choose any one course from below elective) CS8016 Cloud Computing (02 Batches) 3-0-0-3 CSE CS2008-Computer Networks MS 242 Those who have done pre-requisites EC3010 - Fundamentals of Electromagnetic EC8033 Radio Frequency Integrated Circuits Design 3-0-0-3 ECE MSP 85 Those who have done pre-requisites Theory

(OE2E02)Probability and random Process

ME2002/SM2002

ME2007/SM2007/OE2M07

Only for ECE, ME & SM Discipline

DS1006 - Design Fundamentals II Year Long Courses (Commonfor B.Des. and B.Tech.)

DS1002- Design Fundamentals 1 and

ST

MS

SA

BG

PM

44

15

82

44

58

Those who have done pre-requisites

3-0-0-3

3-0-0-3

3-0-0-3

3-0-0-3

2-0-2-3

0-0-0-2

ECE

ME

SM

NS

DS

OE4E50

OE3M26

OE4M23

OE3N36

OE3D16

PR3003

Detection and Estimation Theory

Computer-Aided Design (CAD)

Business Analytics using R

Probability and Statistics

Visual Ergonomics

Optional Project

| F 69939 | Advanced Digital Filter Design | 3-0-0-3 | ECE | | A1/ | 20 | |
|------------------|---|-----------|------------|--|----------------|----------|------------------------------------|
| EC8029 OE4M75 | Advanced Digital Filter Design | | ME | EC2005 - Digital Signal Processing | AK | 39 36 | Those who have done pre-requisites |
| | Fundamentals of Tribology & Rheology | 3-0-0-3 | | ME2003/SM2003 | MKT | | Those who have done pre-requisites |
| MT5003 | Advance in Sensors and Actuators | 3-0-0-3 | MT | ME3010/SM3010 | MS | 52 | Those who have done pre-requisites |
| ME5D03 | Finite Element Methods for Mechanical Engineering | 3-0-0-3 | ME | ME2003/SM2003 | SDP | 15 | Those who have done pre-requisites |
| OE08 (Choose any | one course from below elective) | | | | | | |
| CS8031 | Cyber Security (02 Batches) | 2-0-2-3 | CSE | CS2008 - Computer Networks and CS2002 - Computer Organization and Architecture | ND | 242 | Those who have done pre-requisites |
| OE4E25 | Advance Antenna Theory Design | 3-0-0-3 | ECE | EC3010 - Fundamentals of Electromagnetic Theory | ТК | 40 | Those who have done pre-requisites |
| EC8030 | CMOS Memory Design | 3-0-0-3 | ECE | EC2008 - Analog integrated Circuit | KD | 84 | Those who have done pre-requisites |
| OE4M76 | Digital Twins in Manufacturing | 3-0-0-3 | SM | ME3010/SM3010 | SKS | 21 | Those who have done pre-requisites |
| ME5D02 | Mechanical Vibrations and Condition Monitoring | 3-0-0-3 | ME | ME2003/SM2003 | AM | 21 | Those who have done pre-requisites |
| OE4M35 | Advanced Manufacturing Processes and Technologies | 3-0-0-3 | ME | ME2002/SM2002 | RP | 61 | Those who have done pre-requisites |
| OE00 (Chaosa any | and source from holow elective) | | | | | | |
| CS8018 | one course from below elective) Web Mining | 3-0-0-3 | CSE | Pre-requisites is not required | ACP | 119 | Open for all |
| CS8013 | Mobile and Wireless Networks | 3-0-0-3 | CSE | Pre-requisites is not required | VKJ | 71 | Open for all |
| EC8004 | Pattern Recognition and Machine Learning | 3-0-0-3 | ECE | Pre-requisites is not required | AV | 27 | Open for all |
| OE4E69 | Optical Communication | 3-0-0-3 | ECE | Pre-requisites is not required | DKV | 47 | Open for all |
| ME8016 | Biomaterials Science and Engineering | 3-0-0-3 | ME | Pre-requisites is not required | HSN | 47 90 | Open for all |
| OE4M52 | Rapid Product Development Technologies | 3-0-0-3 | ME | Pre-requisites is not required | PKJ | 90 | Open for all |
| 0E4N77 | Neno technology for Engineers | 3-0-0-3 | NS | Pre-requisites is not required | MKR | 23 | Open for all |
| OE4N77 | Neno technology for Engineers | 3-0-0-3 | IN S | Pre-requisites is not required | WINN | 25 | Open for all |
| OE10 (Choose any | one course from below elective) | | | | | | |
| CS8032 | Soft Computing | 3-0-0-3 | CSE | Pre-requisites is not required | AS | 119 | Open for all |
| CS8004 | Deep Learning and Applications | 2-0-2-3 | CSE | Pre-requisites is not required | AO | 89 | Open for all |
| EC8006 | Photovoltaics: Fundamentals and Applications | 3-0-0-3 | ECE | Pre-requisites is not required | DPS | 88 | Open for all |
| OE4M22 | Industrial Instrumentation & Metrology | 3-0-0-3 | ME | Pre-requisites is not required | CD | 43 | Open for all |
| ME8010 | MEMS: Microfabrication and Application | 3-0-0-3 | ME | Pre-requisites is not required | MZA | 38 | Open for all |
| OE4L73 | LIFE SKILLS MANAGEMENT | 3-1-0-3 | English/LA | Pre-requisites is not required | JAMF | 90 | Open for all |
| OE11 (Choose any | one course from below elective) | | | | | | |
| CS8007 | Social Network Analysis | 2-0-2-3 | CSE | Pre-requisites is not required | ACP | 120 | Open for all |
| CS8025 | Fuzzy Sets, Logic and Applications | 3-0-0-3 | CSE | Pre-requisites is not required | AS | 120 | Open for all |
| NEW | Wireless Communications | 3-0-0-3 | ECE | Pre-requisites is not required | MDB | 46 | Open for all |
| EC5N01 | Physics of Semiconductor Devices | 3-0-0-3 | ECE | Pre-requisites is not required | PNK | 41 | Open for all |
| ME5C01 | Computer Aided Geometric Design | 3-0-0-3 | ME | Pre-requisites is not required | PKJ | 18 | Open for all |
| ME8002 | Design for Experiments | 3-0-0-3 | ME | Pre-requisites is not required | CD | 45 | Open for all |
| OE4M74 | AI and ML for Engineering | 3-0-0-3 | SM | Pre-requisites is not required | VKG | 77 | Open for all |
| | | | | B.Des Semester-VII | | | |
| Course Code | Course Name | Credit | Offered By | | Instructor | | |
| | | | Discipline | | | | |
| DS4013 DS4014 | Design Seminar I Design Thesis II | 3 14 | DS DS | | GUIDE GUIDE | 46 46 | |
| 034014 | Seagn mean ii | 17 | | ng Courses (Common for B.Des. and B.Tech. | | 40 | |
| PC4004 | Professional Development Course | 1-0-0-1 F | Placement | | , | | Common for all |
| | | 0-0-1 1 | | | | | contailon for an |

| DC Discipline Core (All students of that discipline should register for t | | | | | | | | |
|---|--------------------------------------|--|--|--|--|--|--|--|
| Those who have already done the course can not take the course | | | | | | | | |
| The Senate has decided a batch size | | | | | | | | |
| Туре | Batch Size (no. of Maximum students) | | | | | | | |
| Theory | 125 | | | | | | | |
| Lab (experimental) | 30 | | | | | | | |
| Lab (simulations) | 60 | | | | | | | |

Accordingly the number of batches and instructors to be decided.

| Elective Course Limit | Offer by CSE Discipline | 120 |
|--------------------------|-------------------------|-----|
| | Offer by ECE Discipline | 90 |
| | Offer by ME Discipline | 90 |
| | Offer by SM Discipline | 90 |
| | Offer by DS Discipline | 90 |