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| **CIVIL ENGINEERING**  **(01-CE)** | TRANSPORTATION ENGINEERING  (Common to CE, CEE) | E4 | ESTIMATION QUANTITY SURVEYING AND VALUATION | E3 | E2 | E4 | E3 | --- | --- |
| BRIDGE ENGINEERING  (Common to CE, CEE) | PRESTRESSED CONCRETE  (Common to CE, CEE) | CONSTRUCTION TECHNOLOGY AND MANAGEMENT  (Common to CE, CEE) | IRRIGATION AND HYDRAULIC STRUCTURES  (Common to CE, CEE) | GROUND IMPROVEMENT TECHNIQUES |
| TRAFFIC ENGINEERING |
| FOUNDATION ENGINEERING | SOIL DYNAMICS AND MACHINE FOUNDATION | RAILWAY AND AIRPORT ENGINEERING |
| REHABILITATION AND RETROFITTING OF STRUCTURES |
| WATERSHED MANAGEMENT |
| STOCHASTIC HYDROLOGY |

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| **ELECTRICAL AND ELECTRONICS ENGINEERING**  **(02-EEE)** | POWER SEMICONDUCTOR DRIVES | **---** | E3 | POWER SYSTEM OPERATION AND CONTROL | E4 | E2 | E4 | **---** | **---** |
| OPTIMIZATION TECHNIQUES (Common to EEE, ECE, ETM) | SPECIAL MACHINES | RELIABILITY ENGINEERING  (Common EEE, MECT) | PROGRAMMABLE LOGIC CONTROLLERS |
| EHV AC TRANSMISSION SYSTEMS |
| DIGITAL CONTROL SYSTEMS  (Common to EEE, EIE) | DIGITAL SIGNAL PROCESSING | FLEXIBLE A.C. TRANSMISSION SYSTEMS |
| HVDC TRANSMISSION |
| MODERN POWER ELECTRONICS |
| SWITCH MODE POWER SUPPLIES |
| POWER QUALITY |

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| **MECHANICAL ENGINEERING**  **(03-ME)** | INSTRUMENTATION AND CONTROL SYSTEMS (Common ME, AME) | E2 |  | E3 | E3 | --- | E3 | E4 | --- |
| OPERATIONS RESEARCH  (Common ME, MECT, MMT, AE, AME) | CAD / CAM  (Common ME, AE, MSNT) | COMPUTATIONAL FLUID DYNAMICS  (Common ME, AE, AME, MSNT ) | ROBOTICS  (Common ME, AME, MSNT ) |  | CNC TECHNOLOGY  (Common ME, MSNT ) | MECHANICAL VIBRATIONS  (Common ME, AME ) |
| POWER PLANT ENGINEERING  (Common ME, MSNT) | ADDITIVE MANUFACTURING TECHNOLOGY |
| ENGINEERING TRIBOLOGY |
| COMPOSITE MATERIALS |
| MEMS |
|  |
| INDUSTRIAL MANAGEMENT |
| TURBO MACHINES |

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| **ELECTRONICS**  **AND COMMUNICATION ENGINEERING**  **(04-ECE)** | E2 | E4 | E4 |  |  | E3 | E2 |  | --- |
| COMPUTER  NETWORKS  Common to (ECE, BME, ETM) | OBJECT ORIENTED PROGRAMMING  Common to (ECE, ETM) | OPTIMIZATION TECHNIQUES  Common to (EEE, ECE, ETM) | MICROWAVE ENGINEERING  Common to (ECE, ETM) | --- | EMBEDDED SYSTEM DESIGN Common to (ECE, EIE, ETM, ECM) | CODING THEORY AND TECHNIQUES  Common to (ECE, ETM) | VLSI DESIGN  Common to (ECE, EIE, ETM) |
| ARTIFICIAL INTELLIGENCE  Common to (ECE, IT, ECM) | ELECTRONIC MEASUREMENTS AND INSTRUMENTATION | INTERNET OF THINGS  Common to (ECE, CSE, IT) |
| SOFT COMPUTING TECHNIQUES |
| RADAR SYSTEMS |
| FPGA PROGRAMMING |
| WIRELESS COMMUNICATIONS AND NETWORKS |

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| **COMPUTER SCIENCE AND ENGINEERING**  **(05-CSE)** | DATA MINING  (Common to CSE, IT) | E3 | --- | PRINCIPLES OF PROGRAMMING LANGUAGES | --- | E2 | --- | E4 | --- |
| OFTWARE  PROCESS AND PROJECT MANAGEMENT  (Common to CSE, IT) | INTERNET OF THINGS  (Common to ECE, CSE, IT) | CLOUD COMPUTING  (Common to CSE, IT, ECM) |
| PYTHON PROGRAMMING  (Common to CSE, IT) |
| BLOCKCHAIN TECHNOLOGY  (Common to (SE, IT) |
| DISTRIBUTD SYSTEMS |
| WEB SCRIPTING LANGUAGES  (Common to CSE, IT) |
| GRAPH THEORY | SOCIAL NETWORK ANALYSIS  (Common to (SE, IT) |
| MOBILE APPLICATION DEVELOPMENT |
| MACHINE LEARNING |
| COMPUTATIONAL COMPLEXITY |

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| **ELECTRONICS**  **AND INSTRUMENTATION ENGINEERING**  **(10-EIE)** | INDUSTRIAL AUTOMATION | --- | E3 | E4 | ---- | EMBEDDED SYSTEM DESIGN  (Common to ECE, EIE, ETM, ECM) | E2 | E4 | E2 |
| BIOMEDICAL INSTRUMENTATION | ROBOTICS AND AUTOMATION  (Common to EIE, BME ) | TELEMETRY AND TELECONTROL | VLSI DESIGN  (Common to CE, EIE, ETM) | DIGITAL IMAGE PROCESSING  ( Common to EIE, ETM, ECM) |
| OPTOELECTRONICS & LASER INSTRUMENTATION |
| DIGITAL CONTROL SYSTEMS  (Common to EEE, EIE) | INSTRUMENTATION PRACTICES IN INDUSTRIES |
| ADAPTIVE CONTROL SYSTEMS | EMBEDDED REAL TIME OPERATING SYSTEMS |
| MEDICAL IMAGING TECHNIQUES |
| POWER PLANT INSTRUMENTATION |

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| **BIO-MEDICAL ENGINEERING (11-BME)** | E2 | MEDICAL IMAGE PROCESSING | --- | E4 | E3 | E4 | E3 | MICROPROCESSORS AND MICROCONTROLLERS  (Common to BME, MECT) | --- |
| ROBOTICS AND AUTOMATION  (Common to EIE, BME ) | OPERATING SYSTEMS (Common to BME, ECM) | NANO TECHNOLOGY | ARTIFICIAL  NEURAL NETWORKS  (Common to BME, ECM) |
| COMPUTER NETWORKS  (Common to ECE, BME, ETM ) |
| HOSPITAL SYSTEM MANAGEMENT |
| QUANTITATIVE ENGINEERING PHYSIOLOGY |
| TELEMEDICINE | TRANSPORTATION PHENOMENA IN LIVING SYSTEMS | REHABILITATION ENGINEERING |
| VIRTUAL INSTRUMENTATION |
| BIOMATERIALS |

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| **INFORMATION**  **TECHNOLOGY**  **(12- I T)** | DATA MINING  ( Common to CSE, IT) | E3 | ANDROID APPLICATION DEVELOPMENT | E3 | --- | E2 | --- | E4 | --- |
| EMBEDDED SYSTEMS | INTERNET OF THINGS  (Common to ECE, CSE, IT) | CLOUD COMPUTING  (Common to CSE, IT, ECM) |
| ARTIFICIAL INTELLIGENCE  (Common to ECE, IT, ECM) |
| WEB AND DATABASE SECURITY |
| PYTHON PROGRAMMING  ( Common to CSE, IT) | BLOCKCHAIN TECHNOLOGY  (Common to CSE, IT) |
| SOFTWARE  PROCESS AND PROJECT MANAGEMENT  (Common to CSE, IT) |
| SOCIAL NETWORK ANALYSIS  (Common to CSE, IT) |
| WEB SCRIPTING LANGUAGES  ( Common to CSE, IT) |
| INFORMATION RETRIEVAL SYSTEMS |
| ETHICAL HACKING |

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| **MECHANICAL**  **ENGINEERING**  **(MECHATRONICS)**  **(14-MECT)** | E3 | E3 | ROBOTICS AND ITS APPLICATIONS | E4 | E4 | E2 | --- | MICROPROCESSORS AND MICROCONTROLLERS  (Common to BME, MECT) | --- |
| PLANT ENGINEERING AND MAINTENANCE  (Common to MECT, AME) | OPERATIONS RESEARCH (Common ME, MECT, MMT, AE, AME) | FLEXIBLE MANUFACTURING SYSTEM | AUTOMOBILE ENGINEERING | PRINCIPLES OF MACHINE DESIGN |
| MATHEMATICAL MODELING AND SIMULATION | ENGINEERING METROLOGY | RELIABILITY ENGINEERING  (Common EEE, MECT) |
| ADVANCED KINEMATICS & DYNAMICS OF MACHINERY |
| REFRIGERATION AND AIR CONDITIONING |
| MECHANICS OF COMPOSITE MATERIALS |
| CONCURRENT ENGINEERING |

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| **ElECTRONICS AND TELEMATICS ENGINEERING (17-ETM)** | COMPUTER NETWORKS  (Common to ECE, BME, ETM) | E3 | E4 | E4 | TELECOMMUNICATION SWITCHING SYSTEMS AND NETWORKS  (Common to ETM, ECM) | E4 | | E3 | E2 | E2 |
| MICROWAVE ENGINEERING  (Common to ECE, ETM) | EMBEDDED SYSTEM DESIGN  (Common to ECE, EIE, ETM, ECM) | | CODING THEORY AND TECHNIQUES  (Common to ECE, ETM) | VLSI DESIGN  (Common to ECE, EIE, ETM) | DIGITAL IMAGE PROCESSING  (Common to EIE, ETM, ECM) |
| OPTIMIZATION TECHNIQUES  (Common to EEE, ECE, ETM) |
| OBJECT ORIENTED  PROGRAMMING THROUGH JAVA  (Common to ECE, ETM) |
| DIGITAL SIGNAL PROCESSORS AND CONTROLLERS | DESIGN OF FAULT TOLERANT SYSTEMS | RF CIRCUIT DESIGN |
| NETWORKS SECURITY AND CRYPTO GRAPHY  (Common to ETM, ECM) |
| CELLULAR AND MOBILE COMMUNICATIONS |

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| **METALLURGICAL AND MATERIALS ENGINEERING**  **(18-MMT)** | POWDER METALLURGY | E3 | **­­----** | E2 | **----** | E4 | **\_\_** | ELECTROMETALLURGY AND CORROSION ENGINEERING | **\_\_** |
| FRACTURE MECHANICS AND FAILURE ANALYSIS | LIGHT MATERIALS AND ALLOYS |
| OPERATIONS RESEARCH (Common ME, MECT, MMT, AE, AME**)** |
| NON DESTRUCTIVE EVALUATION |
| METALLURGICAL PROBLEMS |
| ALLOY STEELS |
| X RAY METALLOGRAPHY |
| POLYMERIC MATERIALS | SCIENCE AND TECHNOLOGY OF CERAMICS |

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| **ELECTRONICS**  **AND COMPUTER ENGINEERING  (19-E.COMP.E)** | - | E4 | LINUX PROGRAMMING | E3 | E2 | EMBEDDED SYSTEM DESIGN  (Common to ECE, EIE, ETM, ECM) | E2 | E4 | E3 |
| NETWORKS SECURITY AND CRYPTO GRAPHY  (Common to ETM, ECM) | TELECOMMUNICATION SWITCHING SYSTEMS AND NETWORKS  (Common to ETM, ECM) | ARTIFICIAL NEURAL NETWORKS  (Common to BME, ECM) | CLOUD COMPUTING  Common to (CSE, IT, ECM) | DIGITAL IMAGE PROCESSING  (Common to EIE, ETM, ECM) |
| ARTIFICIAL  INTELLIGENCE  Common to (ECE, IT, ECM) |
| DSP PROCESSORS AND ARCHITECTURES |
| WIRELESS SENSOR NETWORKS | COMPILER DESIGN |
| DIGITAL SYSTEM DESIGN |
| DESIGN AND ANALYSIS OF ALGORITHMS |
|  |
| OPERATING SYSTEMS  (Common to BME, ECM) |

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| **AERONAUTICAL ENGINEERING (21-AE)** | FLIGHT VEHICLE DESIGN | E2 | E2 | E3 | --- | E4 | --- | MECHANICAL VIBRATION AND STRUCTURAL DYNAMICS | --- |
| OPERATIONS RESEARCH (Common ME, MECT, MMT, AE, AME) | CAD / CAM  (Common ME, AE, MSNT) | COMPUTATIONAL FLUID DYNAMICS  (Common ME, AE, AME, MSNT ) |  | SPACE MECHANICS |
| AIRCRAFT MAINTENANCE ENGINEERING | MATERIAL SCIENCE AND COMPOSITES | MECHANICS OF COMPOSITE STRUCTURES |
| AI**R**CRAFT STRUCTURAL DESIGN |
| ADVANCED MANUFACTURING TECHNIQUES |
| AIRPORT PLANNING AND MANAGEMENT |
| AIR TRAFFIC CONTROL |
| SYSTEM MODELING AND SIMULATION |
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| **AUTOMOBILE ENGINEERING (24-AME)** | E3 | E4 | DESIGN OF MACHINE MEMBERS II | E4 | E3 | HEAT TRANSFER  (Common to AME, MSNT ) | E2 | E2 | --- |
| MECHANICAL VIBRATIONS  (Common ME, AME ) |
| RENEWABLE ENERGY SOURCES  (Common to AME, MSNT ) |
| OPERATIONS RESEARCH  (Common ME, MECT, MMT, AE, AME) | COMPUTATIONAL FLUID DYNAMICS  (Common ME, AE, AME, MSNT ) | ROBOTICS  (Common ME, AME, MSNT ) |
| INSTRUMENTATION AND CONTROL SYSTEMS  (Common ME, AME) |
| AUTOMATION IN MANUFACTURING | PRODUCT DESIGN AND ASSEMBLY AUTOMATION | AUTOMOTIVE POLLUTION AND CONTROL |
| VEHICLE BODY ENGINEERING AND SAFETY |
| METROLOGY AND SURFACE ENGINEERING |
| PLANT ENGINEERING AND MAINTENANCE  (Common to MECT, AME) |

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| **MINING ENGINEERING (25 - MIE)** | MINE PLANNING | E4 | MINE LEGISLATION | --- | E3 | E4 | E2 | --- | --- |
| ROCK FRAGMENTATION ENGINEERING | STRATA CONTROL TECHNOLOGY | ROCK SLOPE TECHNOLOGY |
| GEO-STATISTICS |
| HEALTH AND SAFETY IN MINES |
| MINE ECONOMICS |
| MINE GROUND CONTROL |
| PLANNING OF SURFACE MINING TECHNOLOGY PROJECT |
| MINE SUBSIDENCE ENGINEERING |
| PLANNING OF UNDERGROUND COAL MINING PROJECT |
| MINING OF DEEP SEATED DEPOSITS |
| RISK ASSESSMENT AND MANAGEMENT |

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| **PETROLEUM ENGINEERING**  **(27 - PTME)** | PETROLEUM PRODUCTION ENGINEERING AND DESIGN | --- | WELL COMPLETIONS TESTING AND SERVICING | E3 | --- | E2 | E4 | --- | --- |
| PETROLEUM RESERVOIR MODELING AND SIMULATION |  | CHEMICAL REACTION ENGINEERING | HORIZONTAL WELL TECHNOLOGY |
| SURFACE PRODUCTION OPERATIONS |
| OFFSHORE ENGINEERING |
| NATURAL GAS ENGINEERING |
| PETROLEUM RESERVOIR STIMULATION |
| TRANSPORT PHENOMENA |
| SHALE GAS RESERVOIR ENGINEERING |

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| **BRANCH** | **12-09-2019 FN**  **THURSDAY** | **12-09-2019 AN**  **THURSDAY** | **13-09-2019 FN**  **FRIDAY** | **13-09-2019 AN**  **FRIDAY** | **14-09-2019 FN**  **SATURDAY** | **14-09-2019 AN**  **SATURDAY** | **16-09-2019 FN**  **MONDAY** | **16-09-2019 AN**  **MONDAY** | **17-09-2019 FN**  **TUESDAY** |
| **CIVIL &**  **ENVIRONMENTAL**  **ENGINEERING**  **(28-CEE)** | TRANSPORTATION ENGINEERING  (Common to CE, CEE) | E4 | SOIL MECHANICS | E2 | E4 | E2 | E3 | --- | --- |
| BRIDGE ENGINEERING  (Common to CE, CEE) | PRESTRESSED CONCRETE  (Common to CE, CEE) | CONSTRUCTION TECHNOLOGY AND MANAGEMENT  (Common to CE, CEE) | IRRIGATION AND HYDRAULIC STRUCTURES  (Common to CE, CEE) | ECOLOGY AND MICROBIOLOGY |
| GROUND WATER HYDROLOGY | GROUND WATER DEVELOPMENT AND MANAGEMENT |
| ADVANCED STRUCTURAL ANALYSIS |
| CONSTRUCTION MANAGEMENT |
| WATER QUALITY MANAGEMENT |
| INDUSTRIAL WASTE WATER TREATMENT |
| SOLID WASTE MANAGEMENT |

**Date: 28-08-2019**

TIME FN: 10.00 AM TO 11.30 AM

**AN: 02.00 PM TO 03.30 PM**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **BRANCH** | **12-09-2019 FN**  **THURSDAY** | **12-09-2019 AN**  **THURSDAY** | **13-09-2019 FN**  **FRIDAY** | **13-09-2019 AN**  **FRIDAY** | **14-09-2019 FN**  **SATURDAY** | **14-09-2019 AN**  **SATURDAY** | **16-09-2019 FN**  **MONDAY** | **16-09-2019 AN**  **MONDAY** | **17-09-2019 FN**  **TUESDAY** |
| **MECHANICAL**  **ENGINEERING**  **(MATERIAL**  **SCIENCE & NANO**  **TECHNOLOGY)**  **(29 – MSNT)** | SYNTHESIS AND CHARACTERIZATION OF NANO MATERIALS | E3 | E3 | E3 | E4 | HEAT TRANSFER  (Common to AME, MSNT ) | E2 | --- | --- |
| POWER PLANT ENGINEERING  (Common ME, MSNT) | CAD / CAM  (Common ME, AE, MSNT) | COMPUTATIONAL FLUID DYNAMICS  (Common ME, AE, AME, MSNT ) | ROBOTICS  (Common ME, AME, MSNT ) | CNC TECHNOLOGY  (Common ME, MSNT ) |
| UNCONVENTIONA L MACHINING PROCESSES |  |  | NON-DESTRUCTIVE TESTING TECHNIQUES |  | RENEWABLE ENERGY SOURCES  (Common to AME, MSNT ) |
| TOOL DESIGN | ADDITIVE MANUFACTURING |
| MATERIAL HANDLING SYSTEMS |

Sd/-

**Date: 28-08-2019 CONTROLLER OF EXAMINATIONS**

Note: ANY OMISSIONS OR CLASHES IN THIS TIME TABLE MAY PLEASE BE INFORMED TO THE CONTROLLER OF EXAMINATIONS IMMEDIATELY.

1. EVEN IF GOVERNMENT DECLARES HOLIDAY ON ANY OF THE ABOVE DATES, THE EXAMINATIONS SHALL BE CONDUCTED AS USUAL
2. READMITTED STUDENTS HAVE TO APPEAR FOR THE SUBSTITUTE SUBJECT(S) [WHICH IS/ARE NOT SHOWN IN THE TIME-TABLE] IN PLACE OF THE SUBJECT(S) ALREADY PASSED. FOR DETAILS OF SUBSTITUTE SUBJECTS REFER THE COMMUNICATIONS RECEIVED FROM THE DIRECTOR OF ACADEMIC & PLANNING.