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| **BRANCH** | **21-11-2019 FN**  **THURSDAY** | **21-11-2019 AN**  **THURSDAY** | **22-11-2019 FN**  **FRIDAY** | **22-11-2019 AN**  **FRIDAY** | **23-11-2019 FN**  **SATURDAY** |
| **CIVIL ENGINEERING**  **(01-CE)** | TRANSPORTATION ENGINEERING | ESTIMATION QUANTITY SURVEYING AND VALUATION | E2 | E3 | E4 |
| CONSTRUCTION TECHNOLOGY AND MANAGEMENT | GROUND IMPROVEMENT TECHNIQUES | IRRIGATION AND HYDRAULIC STRUCTURES |
| FOUNDATION ENGINEERING | RAILWAY AND AIRPORT ENGINEERING | SOIL DYNAMICS AND MACHINE FOUNDATION |
| REHABILITATION AND RETROFITTING OF STRUCTURES | WATERSHED MANAGEMENT | BRIDGE ENGINEERING |
|
| PRESTRESSED CONCRETE |
| STOCHASTIC HYDROLOGY | TRAFFIC ENGINEERING |

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| **ELECTRICAL AND ELECTRONICS ENGINEERING**  **(02-EEE)** | POWER SEMICONDUCTOR DRIVES | POWER SYSTEM  OPERATION  AND CONTROL | E2 | E3 | E4 |
| RELIABILITY ENGINEERING | OPTIMIZATION TECHNIQUES | PROGRAMMABLE LOGIC CONTROLLERS |
| DIGITAL SIGNAL PROCESSING | DIGITAL CONTROL SYSTEMS |
| FLEXIBLE A.C. TRANSMISSION SYSTEMS |
| HVDC TRANSMISSION | MODERN POWER ELECTRONICS | SPECIAL MACHINES |
| EHV AC TRANSMISSION SYSTEMS |
| POWER QUALITY |
| SWITCH MODE POWER SUPPLIES |
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| **MECHANICAL ENGINEERING**  **(03-ME)** | INSTRUMENTATION AND CONTROL SYSTEMS | CAD / CAM | E2 | E3 | E4 |
| OPERATIONS RESEARCH | COMPUTATIONAL FLUID DYNAMICS | MECHANICAL VIBRATIONS |
| ADDITIVE MANUFACTURING TECHNOLOGY |
| MEMS |
| POWER PLANT ENGINEERING |
| ENGINEERING TRIBOLOGY |
| TURBO MACHINES |
| ROBOTICS |
| COMPOSITE MATERIALS | CNC TECHNOLOGY |
| INDUSTRIAL MANAGEMENT |

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

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

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

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| **BIO-MEDICAL ENGINEERING (11-BME)** | MEDICAL IMAGE PROCESSING | MICROPROCESSORS AND MICROCONTROLLERS | E2 | E3 | E4 |
| COMPUTER NETWORKS | OPERATING SYSTEMS | ROBOTICS AND AUTOMATION |
| TELEMEDICINE |
| HOSPITAL SYSTEM MANAGEMENT | QUANTITATIVE ENGINEERING PHYSIOLOGY |
| VIRTUAL INSTRUMENTATION | REHABILITATI ON ENGINEERING | TRANSPORTATION PHENOMENA IN LIVING SYSTEMS |
| BIOMATERIALS | ARTIFICIAL  NEURAL NETWORKS | NANO TECHNOLOGY |

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

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

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

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

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

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| **AERONAUTICAL ENGINEERING (21-AE)** | FLIGHT VEHICLE DESIGN | MECHANICAL VIBRATION AND STRUCTURAL DYNAMICS | E2 | E3 | E4 |
| OPERATIONS RESEARCH | COMPUTATIONAL FLUID DYNAMICS | SPACE MECHANICS |
| AIRCRAFT MAINTENANCE ENGINEERING | AI**R**CRAFT STRUCTURAL DESIGN | MECHANICS OF COMPOSITE STRUCTURES |
| CAD / CAM |
| AIRPORT PLANNING AND MANAGEMENT |
| MATERIAL SCIENCE AND COMPOSITES |
| ADVANCED MANUFACTURING TECHNIQUES |
|  |
| SYSTEM MODELING AND SIMULATION |
| AIR TRAFFIC CONTROL |

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| **AUTOMOBILE ENGINEERING (24-AME)** | HEAT TRANSFER | DESIGN OF MACHINE MEMBERS II | E2 | E3 | E4 |
| RENEWABLE ENERGY SOURCES | ROBOTICS | COMPUTATIONAL FLUID DYNAMICS |
| MECHANICAL VIBRATIONS |
| AUTOMOTIVE POLLUTION AND CONTROL | PRODUCT DESIGN AND ASSEMBLY AUTOMATION | VEHICLE BODY ENGINEERING AND SAFETY |
| METROLOGY AND SURFACE ENGINEERING | INSTRUMENTATION AND CONTROL SYSTEMS | OPERATIONS RESEARCH |
| PLANT ENGINEERING AND MAINTENANCE | AUTOMATION IN MANUFACTURING |

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

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

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| **CIVIL &**  **ENVIRONMENTAL**  **ENGINEERING**  **(28-CEE)** | TRANSPORTATION ENGINEERING | SOIL MECHANICS | E2 | E3 | E4 |
| IRRIGATION AND HYDRAULIC STRUCTURES | ECOLOGY AND MICROBIOLOGY | BRIDGE  ENGINEERING |
| GROUND WATER HYDROLOGY |
| GROUND WATER DEVELOPMENT AND MANAGEMENT |
| PRESTRESSED CONCRETE | INDUSTRIAL WASTE WATER TREATMENT | CONSTRUCTION TECHNOLOGY AND MANAGEMENT |
| CONSTRUCTION MANAGEMENT | SOLID WASTE MANAGEMENT |
| ADVANCED STRUCTURAL ANALYSIS | WATER QUALITY MANAGEMENT |

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| **MECHANICAL**  **ENGINEERING**  **(MATERIAL**  **SCIENCE & NANO**  **TECHNOLOGY)**  **(29 – MSNT)** | SYNTHESIS AND CHARACTERIZATION OF NANO MATERIALS | HEAT TRANSFER | E2 | E3 | E4 |
| CNC TECHNOLOGY | COMPUTATIONAL FLUID DYNAMICS | ROBOTICS |
|  |
| RENEWABLE ENERGY SOURCES | CAD / CAM | NON-DESTRUCTIVE TESTING TECHNIQUES |
| POWER PLANT ENGINEERING |
| ADDITIVE MANUFACTURING |
| UNCONVENTIONA L MACHINING PROCESSES |
| MATERIAL HANDLING SYSTEMS |
|  | TOOL DESIGN |
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**Date: 01-11-2019 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.