**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**KUKATPALLY - HYDERABAD – 500085**

**E X A M I N A T I O N B R A N C H**

**IV YEAR B.TECH - I SEMESTER– R13 REGULATION-REGULAR EXAMINATIONS, NOVEMBER/DECEMBER-2016**

**T I M E T A B L E**

**T I M E : 2.00 PM TO 5:00 PM**

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| **BRANCH** | **18-11-2016**  **FRIDAY** | **22-11-2016**  **TUESDAY** | **24-11-2016**  **THURSDAY** | **28-11-2016**  **MONDAY** | **30-11-2016**  **WEDNESDAY** | **02-12-2016**  **FRIDAY** |
| **CIVIL**  **ENGINEERING**  **(01-C E)** | Remote Sensing & GIS | Transportation Engineering -II | Estimating & Costing  **CE,CEE** | Water Resources Engineering-II | Elective-II  Finite Element Methods | Elective-III  Advanced Structural Design |
| Advanced Foundation Engineering | Earth and Rock fill Dams and Slope Stability |
| Watershed Management | Water Resources Systems Analysis |
| Air Pollution and Control | Industrial Waste Water Treatment |
| **ELECTRICAL AND**  **ELECTRONICS**  **ENGINEERING**  **(02-E E E)** | Switch Gear and Protection | Utilization of Electrical Energy | Digital Signal Processing | Power System Operation and Control | Elective-I  High Voltage Engineering | Elective-II  Optimization Techniques |
| VLSI Design | Electrical Distribution Systems |
| Digital Control Systems | Electrical Estimation and Costing |
| Data Structures |
| **MECHANICAL**  **ENGINEERING**  **(03-M E)** | Operations Research  **COMMON TO ME,MCT,MIE, MSNT,MEP** | Power Plant Engineering | CAD/CAM  **COMMON TO ME,AE,AME,MSNT** | Instrumentation and Control Systems  **COMMON TO**  **ME,AME** | ELECTIVE – I  Robotics | ELECTIVE – II  Unconventional Machining Processes |
| Mechanical Vibrations | CNC Technology |
| Mechatronics | Automation in Manufacturing |
| Mechanics of Composite Materials I | Design for Manufacturing |
| Industrial Management | Nanotechnology |

**DATE: 21-10-2016**

Sd/-

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| **ELECTRONICS AND**  **COMMUNICATIONS**  **ENGINEERING**  **(04-E C E)** | Management Science  **COMMON TO ECE,ETM ,MMT** | Computer Networks  **COMMON TO ECE,BME, ECC** | Microwave Engineering | Cellular and Mobile Communications | Elective – I  Digital Image Processing | Elective -II: Television Engineering |
| Multimedia and Signal Coding | Optical Communications |
| Object Oriented Programming through Java | Embedded Systems Design |
| **COMPUTER**  **SCIENCE AND**  **ENGINEERING**  **(05-C S E)** | Cloud Computing | Design Patterns  **COMMON TO CSE,IT,CST**, | Data Warehousing and Data Mining | Linux Programming COMMON TO CSE,ECC | ELECTIVE – I  Software Project Management | ELECTIVE – II  Machine Learning |
| Image processing and Pattern Recognition | Soft Computing |
| Mobile Computing | Information Retrieval Systems |
| Computer Graphics | Artificial Intelligence |
| Operations Research | Computer Forensics |
| Big data analytics(Associate analytics-II) |
| Information Security assessments and credits(security analyst-2) |
| **CHEMICAL**  **ENGINEERING**  **(08-C H E M)** | Transport Phenomena | Process Dynamics & Control | Chemical Process Equipment Design | Process Modeling and Simulation | Elective-I Biochemical Engineering | Elective - II Polymer Technology |
| Computational Fluid Dynamics | Petroleum and Petrochemical Technology |
| Nanotechnology | Chemical Process Optimization |
| **ELECTRONICS AND**  **INSTRUMENTATIO**  **N ENGINEERING**  **(10-E I E)** | Analytical Instrumentation  **COMMON TO EIE,ICE** | VLSI Design | Embedded Systems **COMMON TO EIE,ECC,ICE** | PC Based Instrumentation | Elective –I  Telemetry and Telecontrol | Elective – II  Computer Networks |
| Optoelectronics & Laser Instrumentation | Digital Control Systems |
| Robotics and Automation | Biomedical Instrumentation |

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| **BIO-MEDICAL**  **ENGINEERING**  **(11-B M E)** | Medical Image Processing | Computer Networks **COMMON TO BME,ECE,ECC** | Rehabilitation Engineering | Biomedical Signal Processing | Elective – I  Lasers & Fiber Optic Instrumentation | Elective – II  Embedded & Real Time Systems |
| Artificial Neural Networks | VLSI Design |
| Nanotechnology | DSP Processors & Architectures |
| **INFORMATION**  **TECHNOLOGY**  **(12- I T)** | Information Security **COMMON TO CST,IT** | Design Patterns **COMMON TO CSE,IT,CST**, | Mobile Application Development **COMMON TO CST,IT** | Information Retrieval Systems **COMMON TO CST**,**IT** | ELECTIVE – I Wireless Networks and Mobile Computing | ELECTIVE – II  Software Project Management |
| Image Processing and Pattern Recognition | Computer Graphics |
| Soft Computing | Human Computer Interaction |
| Semantic Web and Social Networks | Scripting Languages |
| Operations Research | Computer Forensics |
| Big data analytics(Associate analytics-II) |
| Information Security assessments and credits(security analyst-2) |
| **MECHANICAL**  **ENGINEERING**  **(MECHATRONICS)**  **(14-MCT)** | Operations Research **COMMON TO ME,MCT,MIE, MSNT,MEP** | Microprocessors and Micro Controllers | Robotics & its applications | Motion Control Design | Elective-I  Product Design and Assembly Automation | Elective-II  Power Plant Engineering |
| Renewable Energy Sources | Computer Organization |
| Computational Fluid Dynamics | Flexible Manufacturing System |
| Data Structures | Advanced Kinematics and Dynamics of Machinery |

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| **ELECTRONICS AND**  **TELEMATICS**  **ENGINEERING**  **(17-E T M)** | Management Science  **COMMON TO ICE,ETM, MMT,** | Multimedia and Signal Coding | Advanced Tele communication Technologies | Electronic Measurements and Instrumentation | Elective -I:  Digital Image Processing | Elective -II:  Optical Communications |
| Digital Signal Processors and Architectures | Digital Control Systems |
| Spread Spectrum Communications | Embedded Systems Design |
| **METALLURGICAL**  **AND MATERIAL**  **ENGINEERING**  **(18-M M T)** | Management Science  **COMMON TO ICE,ETM, MMT** | Electro Metallurgy and Corrosion | Material Characterization Techniques | Non Destructive Testing | Departmental Elective I Ceramic Science and Technology | Departmental Elective II Semi Conductors and Magnetic Materials |
| X- Ray Diffraction | Metallurgical Problems |
| Light Metals and Alloys | Polymeric Materials |
| Probability & Statistics |
| **ELECTRONICS AND**  **COMPUTER**  **ENGINEERING**  **(19-E C C)** | VLSI Design | Computer Networks **COMMON TO ECE,BME,ECC** | Embedded Systems  **COMMON TO ECC,ICE,EIE** | Linux Programming  **COMMON TO CSE,ECC** | Elective – I  Cellular & Mobile Communications | Elective – II  Digital Image Processing |
| Artificial Intelligence | Cloud Computing |
| Computer Graphics | Data Warehousing and Data Mining |
| **MECHANICAL**  **ENGINEERING**  **(PRODUCTION)**  **(20-M E P)** | Operations Research  **COMMON TO ME,MCT,MIE,MSNT,MEP** | Mechatronics & its applications | CAD/CAM  **COMMON TO ME,AE,AME,MSNT** | Instrumentation and Control Systems | ELECTIVE – I  Robotics | ELECTIVE – II  Unconventional Machining Processes |
| Computer Integrated Manufacturing | Precision engineering |
| CNC Technology | Automation in Manufacturing |
| Machine Tool Design | Design for Manufacturing & Assembly |
| Engineering Optimization | Nanotechnology |

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| **AERONAUTICAL**  **ENGINEERING**  **(21-A E)** | Airframe Structural Design | Mechanical Vibrations and Structural Dynamics | CAD/CAM  **COMMON TO ME,AE,AME,MSNT** | Control Theory – Application to Flight Control Systems | Elective – I  Advanced Computational Aerodynamics | Elective - II  Space Mechanics |
| Experimental Aerodynamics |
| Flight Scheduling and Operations |
| Mechanisms and Mechanical Design |
| Operations Research |
| Theory of Elasticity | Aircraft Maintenance Engineering |
| Probability and Statistics |
| **INSTRUMENTATIO**  **N AND CONTROL**  **ENGINEERING**  **(22-I C E)** | Analytical Instrumentation  **COMMON TO**  **ICE,EIE** | Computer Aided Design of Control Systems | Embedded Systems  **COMMON TO ICE,ECC,EIE** | Digital Control Systems | Elective – I  Object Oriented Programming Through JAVA | Elective – II  Instrumentation and Control in Manufacturing systems |
| Optoelectronic & Laser Instrumentation | Computer Networks |
| Telemetry and Tele Control | Bio medical Instrumentation |
| **BIOTECHNOLOGY**  **(23-B O T)** | Bio informatics | Transport Phenomena in Bioprocess | Downstream Processing | Animal Biotechnology | ELECTIVE –II  Crop improvement | ELECTIVE –III  Molecular pathogenesis |
| Structural Biology | Biopharmaceuticals |
| Cancer Biology | Introduction to Biomaterials |
| Artificial Neural Networks |
| **AUTOMOBILE**  **ENGG.**  **(24 – AME)** | Automotive Electrical and Autotronics | Automotive chassis and Suspension | CAD/CAM  **COMMON TO ME,AE,AME,MSNT** | Instrumentation and Control Systems **COMMON TO ME,AME** | ELECTIVE – I  Metrology & Surface Engineering | ELECTIVE – II  Micro Processors and Micro Controllers |
| Automotive Pollution and Control | Computational Fluid Dynamics |
| Finite Element Methods |
| Mechatronics | Vehicle Body Engineering and Safety |
| Mechanical Vibrations | Operations Research |
| Robotics |

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| **MINING**  **ENGINEERING**  **(25 – MIE)** | Operations Research **COMMON TO ME,MCT,MIE ,MSNT,MEP,** | Rock Mechanics | Mineral Processing | Mine Legislation | Elective-I  Rock Slope Engineering | Elective-II  Computer Applications in Mining |
| Mine Subsidence Engineering | Mine Construction Engineering |
| Rock Excavation Engineering |
| Rock Fragmentation Engineering | Tunneling Engineering |
| Mine Economics | Strata Control Technology |
| **MINING**  **MACHINERY**  **(26-MIM)** | Material Handling in Mines | Mine Electrical Engineering | Automobile Engineering | Metrology and Machine Tools | Elective-I  Principle s of Tribology | Elective-II  Underground Production Equipment |
| Mechanical Systems Design | Maintenance Engineering |
| Microprocessors and microcontrollers | System Modeling and Simulation |
| Mechatronics |
| **PETROLIUM ENGG.**  **(27 – PTME)** | Enhanced oil Recovery Techniques | Petroleum Refinery Engineering | Health, Safety & Environment in Petroleum Industry | Petroleum Management, Marketing & Finan  ce | Elective - I  Natural Gas Processing | ELECTIVE - II  Offshore Engineering |
| Coal Bed Methane Engineering | Horizontal Well Technology |
| Petro Chemical Engineering | Optimization of Upstream Processes |
| Mass Transfer Operations | Chemical  Reaction Engineering-1 |
| Material Science |
| **CIVIL &**  **ENVIRONMENTAL**  **ENGINEERING**  **(28-C E E)** | Transportation Engineering | Solid waste Management | Estimating & Costing **COMMON TO CE,CEE** | Air Pollution and Control | Elective-II  Industrial Waste Water Treatment | Elective-III  Environmental Sanitation |
| Environmental Pollution of Soil & Remediation | Finite Element Methods |
| Watershed Management | Remote Sensing & GIS |

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| **MECHANICAL**  **ENGINEERING**  **(MATERRIAL**  **SCIENCE & NANO**  **TECHNOLOGY)**  **(29 – MSNT)** | Operations Research  **COMMON TO ME,MCT,MIE,**  **MSNT,MEP** | Carbon Nano Tubes and their Applications | CAD/CAM  **COMMON TO ME,AE,AME,MSNT** | Metrology  Instrumentation  and Control Systems | ELECTIVE - I  Robotics | ELECTIVE - II  Mechanical behavior of Nano Materials |
| Mechanical Vibrations | Nano Sensors and Actuators |
| CNC Technology | MEMS/ NEMS  Design and Applications |
| Mechanics of Composite Materials | Surface Engineering |
| Automobile Engineering |
| **AGRICULTURE**  **ENGINEERING**  **(30 - ACE)** | Micro Irrigation Engineering | Farm Machinery and Equipments-I | Post Harvest  Engineering for Horticulture Produce | Agro Industries and Bi- product  Utilization | ELECTIVE - I  Operations Research | ELECTIVE - II  Watershed Planning and Management |
| Drying and Storage Engineering | Mechanical Measurements and Instrumentation |
| Managerial economics & financial Analysis | Computational Fluid Dynamics |
| Food Processing Plant Design and Layout |
| **COMPUTER SCIENCE**  **& TECHNOLOGY**  **(31-CST)** | Information Security  **COMMON TO CST,IT** | Design  Patterns **COMMON TO CST,CSE,IT** | Mobile Application Development **COMMON TO CST, IT** | Information Retrieval Systems  **COMMON TO CST, IT** | ELECTIVE - I  Wireless Networks and Mobile Computing | ELECTIVE - II  Software Project Management |
| Image Processing and Pattern Recognition | Computer Graphics |
| Soft Computing | Human Computer Interaction |
| Semantic Web and Social Networks | Scripting Languages |
| Operations Research | Computer Forensics |

Note:

1. ANY OMISSIONS OR CLASHES IN THIS TIME TABLE MAY PLEASE BE INFORMED TO THE CONTROLLER OF EXAMINATIONS IMMEDIATELY.
2. EVEN IF GOVERNMENT DECLARES HOLIDAY ON ANY OF THE ABOVE DATES, THE EXAMINATIONS SHALL BE CONDUCTED AS USUAL
3. 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.

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