

# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY-HYDERABAD-500085

EXAMINATION BRANCH

M.TECH-II SEMESTER -R13 REGULATION-SUPPLEMENTARY EXAMINATIONS FEBRUARY-2017

T I M E T A B L E

T I M E : 2.00 PM TO 5.00 PM

| COURSE                                   | 06-02-2017<br>MONDAY                        | 08-02-2017<br>WEDNESDAY                        | 10-02-2017<br>FRIDAY                       | 14-02-2017<br>TUESDAY                            | 16-02-2017<br>THURSDAY                                                                                                                    | 18-02-2017<br>SATURDAY                                                                                                       | 21-02-2017<br>TUESDAY                                                                                                  | 23-02-2017<br>THURSDAY |
|------------------------------------------|---------------------------------------------|------------------------------------------------|--------------------------------------------|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|------------------------|
| BIOTECHNOLOGY-03                         | BIOREACTOR ENGINEERING                      | GENETIC ENGINEERING                            | DOWNSTREAM PROCESSING                      | ELECTIVE III/IV/V<br>ENVIRONMENTAL BIOTECHNOLOGY | ELECTIVE III/IV/V<br>PLANT BIOTECHNOLOGY                                                                                                  | ELECTIVE III/IV/V<br>ANIMAL CELL SCIENCE AND TECHNOLOGY                                                                      | ELECTIVE III/IV/V<br>NANO BIOTECHNOLOGY AND NANO DEVICES<br>BIOINFORMATICS<br>ADVANCED IMMUNOLOGY AND IMMUNOTECHNOLOGY |                        |
| CAD/CAM-04                               | DESIGN OF HYDRAULICS AND PNEUMATICS SYSTEMS | FLEXIBLE MANUFACTURING SYSTEMS                 | COMPUTER AIDED MANUFACTURING               | INDUSTRIAL ROBOTICS                              | ELECTIVE III<br>COMPUTATIONAL FLUID DYNAMICS<br>AUTOMATION IN MANUFACTURING<br>PRODUCTION AND OPERATIONS MANAGEMENT                       | ELECTIVE IV<br>INTELLIGENT MANUFACTURING SYSTEMS<br>COMPUTER AIDED PROCESS PLANNING<br>DESIGN OPTIMIZATION                   |                                                                                                                        |                        |
| COMPUTER SCIENCE-05                      | ADVANCED NETWORK PROGRAMMING                | WEB SERVICES AND SERVICE ORIENTED ARCHITECTURE | ADVANCED DATABASES                         | WIRELESS NETWORKS AND MOBILE COMPUTING           | ELECTIVE III<br>ADVANCED DATA MINING<br>STORAGE AREA NETWORKS<br>DATABASE SECURITY                                                        | ELECTIVE IV<br>CLOUD COMPUTING<br>INFORMATION RETRIEVAL SYSTEMS<br>SEMANTIC WEB AND SOCIAL NETWORKS                          |                                                                                                                        |                        |
| DIGITAL SYSTEM & COMPUTER ELECTRONICS-06 | ADVANCED COMPUTER ARCHITECTURE              | LOW POWER VLSI DESIGN                          | EMBEDDED REAL TIME OPERATING SYSTEMS       | DESIGN FOR TESTABILITY                           | ELECTIVE III<br>CPLD AND FPGA ARCHITECTURES AND APPLICATIONS<br>SYSTEM ON CHIP ARCHITECTURE<br>NETWORK SECURITY AND CRYPTOGRAPHY          | ELECTIVE IV<br>TCP/IP AND ATM NETWORKS<br>DIGITAL SIGNAL PROCESSORS AND ARCHITECTURES<br>CMOS MIXED SIGNAL CIRCUIT DESIGN    |                                                                                                                        |                        |
| ELECTRICAL POWER SYSTEM-07               | POWER SYSTEM DYNAMICS                       | FLEXIBLE AC TRANSMISSION SYSTEMS (FACTS)       | POWER SYSTEM OPERATION AND DEREGULATION    | AI TECHNIQUES IN ELECTRICAL POWER ENGINEERING    | ELECTIVE III<br>GAS INSULATED SYSTEMS(GIS)<br>ELECTRIC SMART GRID<br>ENERGY AUDITING CONSERVATION AND MANAGEMENT                          | ELECTIVE IV<br>VOLTAGE STABILITY<br>REACTIVE POWER<br>COMPENSATION AND MANAGEMENT<br>POWER SYSTEM RELIABILITY                |                                                                                                                        |                        |
| ENERGY SYSTEMS-10                        | PHOTOVOLTAIC & SOLAR THERMAL SYSTEMS        | DESIGN AND OPTIMISATION OF ENERGY SYSTEMS      | THERMAL ENERGY MANAGEMENT AND CONSERVATION | ELECTRICAL ENERGY MANAGEMENT AND CONSERVATION    | ELECTIVE III<br>SOLAR REFRIGERATION AND AIR CONDITIONING<br>ADVANCED CONTROL SYSTEMS<br>HYDEL POWER ENGINEERING<br>STEAM AND GAS TURBINES | ELECTIVE IV<br>COMPUTATIONAL FLUID DYNAMICS<br>BIO-CONVERSION & PROCESSING OF WASTE COGENERATION<br>GREEN BUILDINGS CONCEPTS |                                                                                                                        |                        |
| ENVIRONMENTAL ENGINEERING-11             | AIR POLLUTION AND CONTROL                   | INDUSTRIAL WASTE WATER TREATMENT               | SOLID WASTE MANAGEMENT                     | ENVIRONMENTAL IMPACT ASSESMENT                   | ELECTIVE III<br>WATER QUALITY MODELING<br>DISASTER MANAGEMENT<br>GROUND WATER CONTAMINATION AND REMEDIATION                               | ELECTIVE IV<br>ENVIRONMENTAL BIOTECHNOLOGY<br>ENVIRONMENTAL GEOTECHNOLOGY<br>REMOTE SENSING AND GIS                          |                                                                                                                        |                        |

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M.TECH-II SEMESTER -R13 REGULATION-SUPPLEMENTARY EXAMINATIONS FEBRUARY-2017

TIMETABLE

TIME : 2.00 PM TO 5.00 PM

| COURSE                                   | 06-02-2017<br>MONDAY                                    | 08-02-2017<br>WEDNESDAY                    | 10-02-2017<br>FRIDAY                              | 14-02-2017<br>TUESDAY                              | 16-02-2017<br>THURSDAY                                                                                                            | 18-02-2017<br>SATURDAY                                                                                                                                | 21-02-2017<br>TUESDAY                                               | 23-02-2017<br>THURSDAY                                                                                                           |
|------------------------------------------|---------------------------------------------------------|--------------------------------------------|---------------------------------------------------|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| GEOTECHNICAL ENGINEERING-12              | GEOSYNTHETICS & SOIL REINFORCEMENT                      | EARTH & ROCK FILL DAMS AND SLOPE STABILITY | RETAINING STRUCTURES                              | SOIL - STRUCTURE INTERACTION                       | ELECTIVE III<br>ROCK MECHANICS AND ENGINEERING<br>THEORETICAL SOIL MECHANICS<br>GEOTECHNICAL EARTHQUAKE ENGINEERING               | ELECTIVE IV<br>ENVIRONMENTAL IMPACT ASSESSMENT AND MANAGEMENT<br>GEOGRAPHICAL INFORMATION SYSTEMS<br>PAVEMENT ANALYSIS AND DESIGN                     |                                                                     |                                                                                                                                  |
| INDUSTRIAL ENGINEERING AND MANAGEMENT-13 | SIMULATION MODELING & ANALYSIS OF MANUFACTURING SYSTEMS | SUPPLY CHAIN MANAGEMENT                    | PRODUCTION AND OPERATIONS MANAGEMENT              | RELIABILITY ENGINEERING AND MAINTENANCE MANAGEMENT | ELECTIVE III<br>ENTERPRISE RESOURCE PLANNING<br>TOTAL QUALITY MANAGEMENT                                                          | ELECTIVE IV<br>MARKETING MANAGEMENT<br>ENERGY MANAGEMENT                                                                                              |                                                                     |                                                                                                                                  |
| MACHINE DESIGN-15                        | ADVANCED MECHANICS OF MACHINERY                         | MECHANICAL VIBRATIONS                      | ADVANCED OPTIMIZATION TECHNIQUES AND APPLICATIONS | EXPERIMENTAL STRESS ANALYSIS                       | ELECTIVE III<br>NON LINEAR VIBRATIONS<br>INDUSTRIAL ROBOTICS<br>DESIGN SYNTHESIS<br>PRESSURE VESSEL DESIGN                        | ELECTIVE IV<br>SIGNAL ANALYSIS AND CONDITION MONITORING<br>THEORY OF PLATES AND SHELLS<br>MECHATRONICS<br>COMPUTATIONAL FLUID DYNAMICS                |                                                                     |                                                                                                                                  |
| PRODUCTION ENGINEERING-16                | PRECISION ENGINEERING                                   | RAPID PROTOTYPING TECHNOLOGIES             | OPTIMIZATION TECHNIQUES AND APPLICATIONS          | AUTOMATION IN MANUFACTURING                        | ELECTIVE III<br>FINITE ELEMENT TECHNIQUES<br>DESIGN AND MANUFACTURE OF MEMS & MICRO SYSTEMS<br>INTELLIGENT MANUFACTURING SYSTEMS  | ELECTIVE IV<br>INDUSTRIAL ROBOTICS<br>DESIGN FOR MANUFACTURE & ASSEMBLY<br>MECHATRONICS                                                               |                                                                     |                                                                                                                                  |
| STRUCTURAL ENGINEERING-20                | FINITE ELEMENT METHODS                                  | STRUCTURAL DYNAMICS                        | ANALYSIS AND DESIGN OF SHELLS AND FOLDED PLATES   | ADVANCED STEEL DESIGN                              | ELECTIVE III<br>ADVANCED FOUNDATION ENGINEERING<br>PRE STRESSED CONCRETE<br>COMPUTER AIDED DESIGN IN STRUCTURAL ENGINEERING (CAD) | ELECTIVE IV<br>STABILITY OF STRUCTURES<br>PLASTIC ANALYSIS AND DESIGN<br>EARTHQUAKE RESISTANT DESIGN OF BUILDINGS<br>PRINCIPLES OF BRIDGE ENGINEERING |                                                                     |                                                                                                                                  |
| THERMAL ENGINEERING-21                   | FUELS COMBUSTION & ENVIRONMENT                          | ENERGY MANAGEMENT                          | ADVANCED FINITE ELEMENT ANALYSIS                  | COMPUTATIONAL FLUID DYNAMICS                       | ELECTIVE III<br>CONVECTIVE HEAT TRANSFER<br>EQUIPMENT DESIGN FOR THERMAL SYSTEMS<br>THERMAL & NUCLEAR POWER PLANTS                | ELECTIVE IV<br>THERMAL MEASUREMENTS AND PROCESS CONTROLS<br>JET PROPULSION & ROCKETRY<br>REFRIGERATION & AIR-CONDITIONING                             |                                                                     |                                                                                                                                  |
| TRANSPORTATION ENGINEERING-22            | TRAFFIC ANALYSIS                                        | LAND USE TRANSPORTATION MODELING           | HIGHWAY PROJECT FORMULATION & ECONOMICS           | PAVEMENT ANALYSIS AND DESIGN                       | ELECTIVE III/IV<br>INTELLIGENT TRANSPORTATION SYSTEMS<br>OPTIMIZATION TECHNIQUES                                                  | ELECTIVE III/IV<br>RURAL ROAD                                                                                                                         | ELECTIVE III/IV<br>PAVEMENT CONSTRUCTION MAINTENANCE AND MANAGEMENT | ELECTIVE III/IV<br>GIS APPLICATIONS IN TRANSPORTATION ENGINEERING<br>ENVIRONMENTAL IMPACT ASSESSMENT FOR TRANSPORTATION PROJECTS |

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|-------------------------------------------------------|----------------------------------------------|------------------------------------------------|----------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------|
| SOFTWARE ENGINEERING-25                               | SOFTWARE ARCHITECTURE AND DESIGN PATTERNS    | SOFTWARE PROCESS AND PROJECT MANAGEMENT        | SOFTWARE QUALITY ASSURANCE AND TESTING | COMPONENT BASED SOFTWARE ENGINEERING | ELECTIVE III<br>SEMANTIC WEB AND SOCIAL NETWORKS<br>SCRIPTING LANGUAGES<br>INFORMATION RETRIEVAL SYSTEMS          | ELECTIVE IV<br>BUSINESS PROCESS MANAGEMENT<br>CLOUD COMPUTING<br>ADVANCED DATABASES                                                            |                       |                        |
| MICRO WAVE AND RADAR ENGINEERING-30                   | MICROWAVE NETWORKS                           | RADAR SIGNAL PROCESSING                        | MICROWAVE SOLID STATE DEVICES          | PHASED ARRAY SYSTEMS                 | ELECTIVE III<br>SOFTWARE RADIO<br>RF CIRCUIT DESIGN<br>OPTICAL COMMUNICATION TECHNOLOGY                           | ELECTIVE IV<br>SMART ANTENNAS<br>DETECTION AND ESTIMATION THEORY<br>WIRELESS COMMUNICATIONS AND NETWORKS                                       |                       |                        |
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| CONTROL ENGINEERING-37                                | OPTIMAL CONTROL THEORY                       | ADAPTIVE CONTROL THEORY                        | NEURAL NETWORKS & FUZZY SYSTEMS        | CONTROL SYSTEM DESIGN                | ELECTIVE III<br>NON-LINEAR SYSTEMS<br>PROCESS DYNAMICS AND CONTROL<br>DISTRIBUTED CONTROL SYSTEMS                 | ELECTIVE IV<br>INTELLIGENT AND KNOWLEDGE BASED SYSTEMS<br>REAL TIME SYSTEMS<br>ADVANCED DIGITAL SIGNAL PROCESSING                              |                       |                        |
| DIGITAL ELECTRONICS AND COMMUNICATION SYSTEMS/ENGG-38 | IMAGE AND VIDEO PROCESSING                   | CODING THEORY AND TECHNIQUES                   | OPTICAL COMMUNICATIONS TECHNOLOGY      | WIRELESS COMMUNICATIONS AND NETWORKS | ELECTIVE III<br>SPEECH PROCESSING<br>OPTICAL NETWORKS<br>RADAR SIGNAL PROCESSING                                  | ELECTIVE IV<br>DIGITAL SIGNAL PROCESSORS AND ARCHITECTURES<br>NETWORK SECURITY AND CRYPTOGRAPHY<br>SATELLITE COMMUNICATIONS                    |                       |                        |
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|-------------------------------------------|---------------------------------------------|--------------------------------------------------------|-----------------------------------------|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------|
| POWER AND INDUSTRIAL DRIVES-42            | POWER ELECTRONIC CONVERTERS-II              | FLEXIBLE AC TRANSMISSION SYSTEMS (FACTS)               | POWER ELECTRONIC CONTROL OF AC DRIVES   | NEURAL NETWORKS AND FUZZY SYSTEMS                  | ELECTIVE III<br>POWER QUALITY<br>DIGITAL CONTROL SYSTEMS<br>ADVANCED DIGITAL SIGNAL PROCESSING                                             | ELECTIVE IV<br>HIGH-FREQUENCY MAGNETIC COMPONENTS<br>RENEWABLE ENERGY SYSTEMS<br>DYNAMICS OF ELECTRICAL MACHINES                                                                                  |                       |                        |
| POWER ELECTRONICS-43                      | POWER ELECTRONIC CONVERTERS-II              | FLEXIBLE AC TRANSMISSION SYSTEMS (FACTS)               | POWER ELECTRONIC CONTROL OF AC DRIVES   | NEURAL NETWORKS AND FUZZY SYSTEMS                  | ELECTIVE III<br>ADVANCED DIGITAL SIGNAL PROCESSING<br>DIGITAL CONTROL SYSTEMS<br>POWER QUALITY                                             | ELECTIVE IV<br>DYNAMICS OF ELECTRICAL MACHINES<br>HIGH-FREQUENCY MAGNETIC COMPONENTS<br>RENEWABLE ENERGY SYSTEMS                                                                                  |                       |                        |
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| GEO-INFORMATICS & SURVEYING TECHNOLOGY-47 | DIGITAL PHOTOGRAMMETRY                      | GIS ANALYSIS AND APPLICATIONS                          | REMOTE SENSING APPLICATIONS             | GNSS SURVEYING                                     | GIS PROJECT PLANNING & MANAGEMENT                                                                                                          | ELECTIVE II<br>ADVANCED GEO SPATIAL TECHNOLOGY<br>REMOTE SENSING AND GIS FOR URBAN PLANNING AND MANAGEMENT<br>REMOTE SENSING AND GIS FOR ENVIRONMENTAL ENGINEERING<br>DIGITAL IMAGE PROCESSING-II |                       |                        |
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|------------------------------------------|---------------------------------|----------------------------------------------|------------------------------------------------|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------|
| POWER SYSTEM CONTROL AND AUTOMATION-53   | POWER SYSTEM DYNAMICS           | FLEXIBLE AC TRANSMISSION SYSTEMS (FACTS)     | POWER SYSTEM OPERATION AND DEREGULATION        | AI TECHNIQUES IN ELECTRICAL POWER ENGINEERING | ELECTIVE III<br>ELECTRIC SMART GRID<br>ENERGY AUDITING<br>CONSERVATION AND MANAGEMENT<br>GAS INSULATED SYSTEMS(GIS)                             | ELECTIVE IV<br>POWER SYSTEM RELIABILITY<br>VOLTAGE STABILITY<br>REACTIVE POWER COMPENSATION AND MANAGEMENT                      |                       |                        |
| POWER ELECTRONICS AND ELECTRIC DRIVES-54 | POWER ELECTRONIC CONVERTERS-II  | FLEXIBLE AC TRANSMISSION SYSTEMS (FACTS)     | POWER ELECTRONIC CONTROL OF AC DRIVES          | NEURAL NETWORKS AND FUZZY SYSTEMS             | ELECTIVE III<br>DIGITAL CONTROL SYSTEMS<br>POWER QUALITY<br>ADVANCED DIGITAL SIGNAL PROCESSING                                                  | ELECTIVE IV<br>HIGH-FREQUENCY MAGNETIC COMPONENTS<br>RENEWABLE ENERGY SYSTEMS<br>DYNAMICS OF ELECTRICAL MACHINES                |                       |                        |
| EMBEDDED SYSTEMS-55                      | HARDWARE SOFTWARE CO-DESIGN     | CPLD AND FPGA ARCHITECTURES AND APPLICATIONS | EMBEDDED NETWORKING                            | DIGITAL SIGNAL PROCESSORS AND ARCHITECTURES   | ELECTIVE III<br>SENSORS AND ACTUATORS<br>WIRELESS COMMUNICATIONS AND NETWORKS<br>NETWORK SECURITY AND CRYPTOGRAPHY                              | ELECTIVE IV<br>SYSTEM ON CHIP ARCHITECTURE<br>WIRELESS LANS AND PANS<br>MULTIMEDIA AND SIGNAL CODING                            |                       |                        |
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| VLSI SYSTEM DESIGN / VLSI DESIGN-57      | LOW POWER VLSI DESIGN           | CMOS MIXED SIGNAL CIRCUIT DESIGN             | CAD FOR VLSI CIRCUITS                          | DESIGN FOR TESTABILITY                        | ELECTIVE III<br>DIGITAL SIGNAL PROCESSORS AND ARCHITECTURES<br>SCRIPTING LANGUAGES<br>VLSI SIGNAL PROCESSING                                    | ELECTIVE IV<br>OPTIMIZATION TECHNIQUES IN VLSI DESIGN<br>SYSTEM ON CHIP ARCHITECTURE<br>SEMICONDUCTOR MEMORY DESIGN AND TESTING |                       |                        |
| COMPUTER SCIENCE ENGINEERING-58          | ADVANCED NETWORK PROGRAMMING    | ADVANCED DATABASES                           | WEB SERVICES AND SERVICE ORIENTED ARCHITECTURE | GRID AND CLOUD COMPUTING                      | ELECTIVE III<br>DATABASE SECURITY<br>ADVANCED DATA MINING<br>STORAGE AREA NETWORKS                                                              | ELECTIVE IV<br>INFORMATION RETRIEVAL SYSTEMS<br>SEMANTIC WEB AND SOCIAL NETWORKS<br>WIRELESS NETWORKS AND MOBILE COMPUTING      |                       |                        |
| COMMUNICATION SYSTEMS-61                 | WIRELESS LANS AND PANS          | CODING THEORY AND TECHNIQUES                 | OPTICAL COMMUNICATIONS TECHNOLOGY              | TCP/IP AND ATM NETWORKS                       | ELECTIVE III<br>OPTICAL NETWORKS<br>MOBILE COMPUTING TECHNOLOGIES<br>AD-HOC AND WIRELESS SENSOR NETWORKS                                        | ELECTIVE IV<br>NETWORK SECURITY AND CRYPTOGRAPHY<br>SOFTWARE RADIO<br>PROPAGATION MODELS FOR WIRELESS COMMUNICATIONS            |                       |                        |

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|----------------------------------------------|--------------------------------------|------------------------------------------------|-----------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------|
| WEB TECHNOLOGIES-62                          | WEB SECURITY                         | WEB SERVICES AND SERVICE ORIENTED ARCHITECTURE | SEMANTIC WEB & SOCIAL NETWORKS          | SCRIPTING LANGUAGES                                                        | ELECTIVE III<br>MULTIMEDIA AND RICH INTERNET APPLICATIONS<br>STORAGE AREA NETWORKS<br>ADVANCED DATA MINING          | ELECTIVE IV<br>BUSINESS INTELLIGENCE & BIG DATA<br>SOFTWARE ARCHITECTURE AND DESIGN PATTERNS<br>INFORMATION RETRIEVAL SYSTEMS    |                       |                        |
| IMAGE PROCESSING-63                          | REMOTE SENSING & GIS                 | NEURAL NETWORKS                                | ROBOTICS AND MACHINE VISION             | PARALLEL ALGORITHMS                                                        | ELECTIVE III<br>BIOMETRICS<br>DATA MINING<br>RADAR IMAGING                                                          | ELECTIVE IV<br>MULTIMEDIA DATABASES<br>GENETIC ALGORITHMS<br>STORAGE AREA NETWORKS                                               |                       |                        |
| POWER ENGINEERING AND ENERGY SYSTEMS-64      | POWER SYSTEM DYNAMICS                | FLEXIBLE AC TRANSMISSION SYSTEMS (FACTS)       | POWER SYSTEM OPERATION AND DEREGULATION | AI TECHNIQUES IN ELECTRICAL POWER ENGINEERING                              | ELECTIVE III<br>ENERGY AUDITING<br>CONSERVATION AND MANAGEMENT<br>GAS INSULATED SYSTEMS(GIS)<br>ELECTRIC SMART GRID | ELECTIVE IV<br>VOLTAGE STABILITY<br>POWER SYSTEM RELIABILITY<br>REACTIVE POWER COMPENSATION AND MANAGEMENT                       |                       |                        |
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| NANO TECHNOLOGY-66                           | MATERIAL CHARACTERIZATION TECHNIQUES | CARBON NANOTUBES AND APPLICATIONS              | NANO COMPOSITES - DESIGN AND SYNTHESIS  | MICRO/NANO FABRICATION                                                     | ELECTIVE I<br>NANO ELECTRONICS AND NANO PHOTONICS<br>ACTUATORS AND SENSORS<br>MEMS/NEMS DESIGN AND APPLICATION      | ELECTIVE II<br>STRENGTHENING MECHANISMS WITH NANOMATERIALS<br>NANOTECHNOLOGY FOR ENERGY SYSTEMS<br>ENVIRONMENTAL NANO TECHNOLOGY |                       |                        |
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CONTROLLER OF EXAMINATIONS

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KUKATPALLY-HYDERABAD-500085

EXAMINATION BRANCH

**M.TECH-II SEMESTER -R13 REGULATION-SUPPLEMENTARY EXAMINATIONS FEBRUARY-2017**

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

**T I M E : 2.00 PM TO 5.00 PM**

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| COMPUTER NETWORKS AND INFORMATION SECURITY-78 | WIRELESS NETWORKS AND MOBILE COMPUTING | APPLICATIONS OF NETWORK SECURITY | INFORMATION SECURITY MANAGEMENT AND STANDARD         | AD HOC AND SENSOR NETWORKS                                  | ELECTIVE III<br>WIRELESS SECURITY<br>DATABASE SECURITY<br>MOBILE APPLICATION DEVELOPMENT USING J2ME AND ANDROID                                                                                            | ELECTIVE IV<br>CLOUD COMPUTING<br>SEMANTIC WEB AND SOCIAL NETWORKS<br>NETWORK MANAGEMENT SYSTEMS                                                                       |                                                                                |                                                              |
| MECHATRONICS-80                               | MICRO CONTROLLER & APPLICATIONS        | FUZZY LOGIC & NEURAL NETWORKS    | MEMS                                                 | INDUSTRIAL ROBOTICS                                         | ELECTIVE III<br>SIMULATION MODELING OF MANUFACTURING SYSTEMS<br>INTELLIGENT MANUFACTURING SYSTEMS<br>DESIGN FOR MANUFACTURE & ASSEMBLY                                                                     | ELECTIVE IV<br>AUTOTRONICS & VEHICLE INTELLIGENCE<br>COMPUTER AIDED METROLOGY & MACHINE VISION<br>ENTREPRENEURSHIP                                                     |                                                                                |                                                              |
| INFRASTRUCTURE ENGG-81                        | WASTE MANAGEMENT SYSTEMS               | FINITE ELEMENT METHOD            | RETAINING STRUCTURES                                 | URBAN/REGIONAL TRANSPORTATION ANALYSIS AND PLANNING METHODS | ELECTIVE III/IV<br>CONSTRUCTION MANAGEMENT II<br>REHABILITATION AND RETROFITTING OF STRUCTURES<br>PRINCIPLES OF BRIDGE ENGINEERING                                                                         | ELECTIVE III/IV<br>EARTHQUAKE RESISTANT DESIGN OF STRUCTURES<br>GIS<br>BASICS OF STRUCTURAL ENGINEERING                                                                | ELECTIVE III/IV<br>ENGINEERING OF GROUND INTEGRATED WATER RESOURCES MANAGEMENT | ELECTIVE III/IV<br>PROJECT PLANNING AND FINANCIAL MANAGEMENT |

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|-------------------------------------------|---------------------------------|--------------------------------------------------------|---------------------------------------------|------------------------------------------|-------------------------------------------------------|-------------------------------------------------------------|-----------------------|------------------------|
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| REAL TIME SYSTEMS-84                      | EMBEDDED LINUX PROGRAMMING      | EMBEDDED SYSTEMS DEVELOPMENT                           | EMBEDDED REAL TIME OPERATING SYSTEMS        | SCRIPTING LANGUAGES                      | ELECTIVE III                                          | ELECTIVE IV                                                 |                       |                        |
|                                           |                                 |                                                        |                                             |                                          | LOW POWER VLSI DESIGN                                 | INFORMATION SECURITY                                        |                       |                        |
|                                           |                                 |                                                        |                                             |                                          | CASE STUDIES IN REAL TIME APPLICATIONS                | NEURAL NETWORKS                                             |                       |                        |
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| HIGH VOLTAGE ENGINEERING-85               | HIGH VOLTAGE TESTING TECHNOLOGY | EHV AC TRANSMISSION                                    | SURGE PHENOMENA AND INSULATION COORDINATION | ADVANCED POWER SYSTEM PROTECTION         | ELECTIVE III                                          | ELECTIVE IV                                                 |                       |                        |
|                                           |                                 |                                                        |                                             |                                          | PROGRAMMABLE LOGIC CONTROLLERS AND THEIR APPLICATIONS | ADVANCED EM FIELDS                                          |                       |                        |
|                                           |                                 |                                                        |                                             |                                          | POWER SYSTEM TRANSIENTS                               | HV TRANSFORMERS                                             |                       |                        |
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| HIGHWAY ENGINEERING-87                    | TRAFFIC ANALYSIS                | PAVEMENT CONSTRUCTION MAINTENANCE & MANAGEMENT         | HIGHWAY PROJECT FORMULATION AND ECONOMICS   | PAVEMENT ANALYSIS AND DESIGN             | ELECTIVE III                                          | ELECTIVE IV                                                 |                       |                        |
|                                           |                                 |                                                        |                                             |                                          | LAND USE AND TRANSPORTATION MODELING                  | GIS APPLICATIONS IN TRANSPORTATION ENGINEERING              |                       |                        |
|                                           |                                 |                                                        |                                             |                                          | TRANSPORTATION SYSTEM MANAGEMENT                      | OPTIMIZATION TECHNIQUES                                     |                       |                        |
|                                           |                                 |                                                        |                                             |                                          | ROAD SAFETY ENGINEERING                               | ENVIRONMENTAL IMPACT ASSESSMENT FOR TRANSPORTATION PROJECTS |                       |                        |
| ELECTRONICS & INSTRUMENTATION-88          | DATA ACQUISITION SYSTEM         | QUALITY & RELIABILITY ENGINEERING IN ELECTRONIC SYSTEM | ROBOTICS DESIGN AND CONTROL                 | VIRTUAL INSTRUMENTATION                  | ELECTIVE III                                          | ELECTIVE IV                                                 |                       |                        |
|                                           |                                 |                                                        |                                             |                                          | INDUSTRIAL INSTRUMENTATION                            | MEMS & APPLICATIONS                                         |                       |                        |
|                                           |                                 |                                                        |                                             |                                          | ADVANCED DIGITAL SIGNAL PROCESSING                    | PLC & ITS APPLICATIONS                                      |                       |                        |
|                                           |                                 |                                                        |                                             |                                          | SYSTEM ON CHIP ARCHITECTURES                          | FIBER OPTIC AND LASER INSTRUMENTATION                       |                       |                        |
| AUTOMATION (MECHANICAL)-89                | FLUID POWER SYSTEMS             | MICROPROCESSOR & APPLICATIONS                          | INTELLIGENT INSTRUMENTATION & MANUFACTURING | INDUSTRIAL ROBOT TECHNOLOGY              | ELECTIVE III                                          | ELECTIVE IV                                                 |                       |                        |
|                                           |                                 |                                                        |                                             |                                          | QUALITY ENGINEERING IN MANUFACTURING                  | DESIGN FOR MANUFACTURING & ASSEMBLY                         |                       |                        |
|                                           |                                 |                                                        |                                             |                                          | ADVANCED OPTIMIZATION TECHNIQUE & APPLICATIONS        | SMART MATERIALS & STRUCTURES                                |                       |                        |
|                                           |                                 |                                                        |                                             |                                          | NEURAL NETWORK & FUZZY LOGIC                          | VIBRATION ANALYSIS & CONDITION MONITORING                   |                       |                        |
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|                                           |                                 |                                                        |                                             |                                          | ENERGY MANAGEMENT                                     | TURBO MACHINES                                              |                       |                        |
|                                           |                                 |                                                        |                                             |                                          | ADVANCED FINITE ELEMENT ANALYSIS                      | CRYOGENIC ENGINEERING                                       |                       |                        |
|                                           |                                 |                                                        |                                             |                                          | EQUIPMENT DESIGN FOR THERMAL SYSTEMS                  | THERMAL AND NUCLEAR POWER PLANTS                            |                       |                        |

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|-------------------------------------------------|------------------------------------|---------------------------------------|------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|---------------------------------------|
| SYSTEMS AND SIGNAL PROCESSING-93                | ADAPTIVE SIGNAL PROCESSING         | CODING THEORY AND TECHNIQUES          | SPEECH PROCESSING                                    | DIGITAL SIGNAL PROCESSORS AND ARCHITECTURES     | ELECTIVE III<br>CPLD AND FPGA ARCHITECTURES AND APPLICATION<br>EMBEDDED REAL-TIME OPERATING SYSTEMS<br>AD-HOC AND WIRELESS SENSOR NETWORKS                                                                 | ELECTIVE IV<br>IMAGE AND VIDEO PROCESSING<br>SYSTEM ON CHIP ARCHITECTURE<br>DIGITAL CONTROL SYSTEMS                                                                                          |                                                 |                                       |
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| AERONAUTICAL ENGINEERING-97                     | AIRCRAFT CONTROL AND SIMULATION    | SPACE TRANSPORTATION SYSTEMS          | COMPUTATIONAL APPROACHES TO AEROSPACE VEHICLE DESIGN | AEROSPACE SENSORS AND MEASUREMENT SYSTEMS       | ELECTIVE III<br>SPACECRAFT DYNAMICS AND CONTROL<br>MISSILE GUIDANCE<br>AERO-THERMODYNAMICS OF HYPERSONIC FLIGHT<br>ADVANCED TOPICS IN AIR TRAFFIC MANAGEMENT SYSTEMS<br>DYNAMICS AND CONTROL OF STRUCTURES | ELECTIVE IV<br>TACTICAL MISSILE DESIGN<br>HIGH ANGLE OF ATTACK AERODYNAMICS<br>MECHANICS OF COMPOSITE MATERIALS<br>ROCKET AND SPACECRAFT PROPULSION<br>OPTIMAL CONTROL                       |                                                 |                                       |
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| ELECTRONICS DESIGN TECHNOLOGY-A0                | EMBEDDED C                         | CMOS MIXED SIGNAL CIRCUIT DESIGN      | EMBEDDED REAL TIME OPERATING SYSTEMS                 | DESIGN FOR TESTABILITY                          | ELECTIVE III<br>DIGITAL SIGNAL PROCESSORS AND ARCHITECTURES<br>SYSTEM ON CHIP ARCHITECTURE<br>EMBEDDED NETWORKING                                                                                          | ELECTIVE IV<br>SENSORS AND ACTUATORS<br>SEMICONDUCTOR MEMORY DESIGN AND TESTING<br>LOW POWER VLSI DESIGN                                                                                     |                                                 |                                       |
| CONSTRUCTION MANAGEMENT-A1                      | CONSTRUCTION METHODS AND EQUIPMENT | CONSTRUCTION AND CONTRACT MANAGEMENT  | CONSTRUCTION ECONOMICS AND FINANCE                   | CIVIL ENGINEERING MATERIALS AND RECENT ADVANCES | ELECTIVE III/IV<br>UNDER WATER CONSTRUCTION.<br>STRATEGIC MANAGEMENT IN CONSTRUCTION.                                                                                                                      | ELECTIVE III/IV<br>CRITICAL CHAIN MANAGEMENT.<br>GEO-ENVIRONMENTAL ENGINEERING.                                                                                                              | ELECTIVE III/IV<br>ADVANCED CONCRETE TECHNOLOGY | ELECTIVE III/IV<br>BUILDING SERVICES. |

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| CYBER FORENSIC INFORMATION SECURITY-A2          | SOFTWARE VULNERABILITY ANALYSIS       | INTRUSION DETECTION AND PREVENTION SYSTEMS | CYBER CRIME INVESTIGATIONS AND DIGITAL FORENSICS | CYBER LAWS AND SECURITY POLICIES            | ELECTIVE III                                        | ELECTIVE IV                             |                       |                        |
|                                                 |                                       |                                            |                                                  |                                             | SECURITY THREATS                                    | DISTRIBUTED SYSTEMS SECURITY            |                       |                        |
|                                                 |                                       |                                            |                                                  |                                             | DIGITAL WATERMARKING AND STEGANOGRAPHY              | INTELLECTUAL PROPERTY RIGHTS            |                       |                        |
|                                                 |                                       |                                            |                                                  |                                             | INFORMATION THEORY AND CODING                       | NETWORK PROGRAMMING                     |                       |                        |
| CYBER SECURITY-A3                               | SOFTWARE VULNERABILITY ANALYSIS       | INTRUSION DETECTION AND PREVENTION SYSTEMS | CYBER CRIME INVESTIGATIONS AND DIGITAL FORENSICS | CYBER LAWS AND SECURITY POLICIES            | ELECTIVE III                                        | ELECTIVE IV                             |                       |                        |
|                                                 |                                       |                                            |                                                  |                                             | DIGITAL WATERMARKING AND STEGANOGRAPHY              | INTELLECTUAL PROPERTY RIGHTS            |                       |                        |
|                                                 |                                       |                                            |                                                  |                                             | INFORMATION THEORY AND CODING                       | DISTRIBUTED SYSTEMS SECURITY            |                       |                        |
|                                                 |                                       |                                            |                                                  |                                             | SECURITY THREATS                                    | NETWORK PROGRAMMING                     |                       |                        |
| BIOMEDICAL SIGNAL PROCESSING INSTRUMENTATION-A4 | ADVANCED BIOMEDICAL SIGNAL PROCESSING | ADVANCED MEDICAL IMAGING                   | FIBER OPTICS AND LASER INSTRUMENTATION           | DIGITAL SIGNAL PROCESSORS AND ARCHITECTURES | ELECTIVE III                                        | ELECTIVE IV                             |                       |                        |
|                                                 |                                       |                                            |                                                  |                                             | ADAPTIVE SIGNAL PROCESSING                          | BIOMEMS AND NANOTECHNOLOGY              |                       |                        |
|                                                 |                                       |                                            |                                                  |                                             | DESIGN AND ANALYSIS OF SIGNAL CONDITIONING CIRCUITS | SPEECH PROCESSING                       |                       |                        |
|                                                 |                                       |                                            |                                                  |                                             | SENSORS AND ACTUATORS                               | REHABILITATION ENGINEERING              |                       |                        |
| VLSI DESIGN-A5                                  | LOW POWER VLSI DESIGN                 | CMOS MIXED SIGNAL CIRCUIT DESIGN           | CAD FOR VLSI CIRCUITS                            | DESIGN FOR TESTABILITY                      | ELECTIVE III                                        | ELECTIVE IV                             |                       |                        |
|                                                 |                                       |                                            |                                                  |                                             | VLSI SIGNAL PROCESSING                              | SYSTEM ON CHIP ARCHITECTURE             |                       |                        |
|                                                 |                                       |                                            |                                                  |                                             | SCRIPTING LANGUAGES                                 | SEMICONDUCTOR MEMORY DESIGN AND TESTING |                       |                        |
|                                                 |                                       |                                            |                                                  |                                             | DIGITAL SIGNAL PROCESSORS AND ARCHITECTURES         | OPTIMIZATION TECHNIQUES IN VLSI DESIGN  |                       |                        |

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**NOTE:**

- (i). ANY OMISSIONS OR CLASHES IN THIS TIME TABLE MAY PLEASE BE INFORMED TO THE CONTROLLER OF EXAMINATIONS IMMEDIATELY
- (ii). EVEN IF GOVERNMENT DECLARES HOLIDAY ON ANY OF THE ABOVE DATES.THE EXAMINATIONS SHALL BE CONDUCTED AS USUAL