

# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY-HYDERABAD-500085

EXAMINATION BRANCH

**M.TECH .I YEAR -I SEMESTER -R19 REGULATION- SUPPLEMENTARY EXAMINATIONS OCTOBER-2021**

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

**TIME: 09:45 AM TO 12:45PM**

| Course                                                       | 20-10-2021<br>WEDNESDAY                            | 22-10-2021<br>FRIDAY                | 25-10-2021<br>MONDAY               | 27-10-2021<br>WEDNESDAY                   | 29-10-2021<br>FRIDAY            | 01-11-2021<br>MONDAY            | 03-11-2021<br>WEDNESDAY                           | 06-11-2021<br>SATURDAY                      |
|--------------------------------------------------------------|----------------------------------------------------|-------------------------------------|------------------------------------|-------------------------------------------|---------------------------------|---------------------------------|---------------------------------------------------|---------------------------------------------|
| CAD/CAM-04                                                   |                                                    | Elective-II                         | Elective-II                        | Elective-I                                | Computer Aided<br>Manufacturing | MC                              | Elective-II                                       | Advanced CAD                                |
|                                                              |                                                    | Automation in<br>Manufacturing      | Computer Aided<br>Process Planning | Mechanical Behavior<br>of Materials       |                                 | Research Methodology<br>and IPR | Industrial<br>Robotics                            |                                             |
|                                                              |                                                    |                                     |                                    | Experimental Stress<br>Analysis           |                                 |                                 |                                                   |                                             |
|                                                              |                                                    |                                     |                                    | Additive<br>Manufacturing<br>Technologies |                                 |                                 |                                                   |                                             |
| COMPUTER<br>SCIENCE-05                                       | Mathematical<br>Foundations of<br>Computer Science | Advanced Data<br>Structures         | Elective-II                        | Elective-II                               |                                 | MC                              | Elective-I                                        |                                             |
|                                                              |                                                    |                                     | Network Security                   | Cloud Computing                           |                                 | Research Methodology<br>and IPR | Machine<br>Learning                               |                                             |
|                                                              |                                                    |                                     |                                    | Data Mining                               |                                 |                                 | Mobile<br>Application<br>Development              |                                             |
|                                                              |                                                    |                                     |                                    |                                           |                                 |                                 | Information<br>Security                           |                                             |
| DIGITAL<br>SYSTEMS<br>AND<br>COMPUTER<br>ELECTRONIC<br>S -06 |                                                    | Digital Systems<br>Design with PLDs | Elective-II                        | VLSI Technology and<br>Design             | Elective-I                      | MC                              | Elective-II                                       | Elective-I                                  |
|                                                              |                                                    |                                     | Advanced Data<br>Communications    |                                           | Embedded System<br>Design       | Research Methodology<br>and IPR | Digital Signal<br>Processors and<br>Architectures | CMOS Analog<br>Integrated Circuit<br>Design |
|                                                              |                                                    |                                     | TCP/IP and ATM<br>Networks         |                                           | Advanced<br>Microcontrollers    |                                 |                                                   |                                             |

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|------------------------------------------|------------------------------------------------|----------------------------------------|------------------------------------------------|------------------------------------|---------------------------------------|---------------------------------|--------------------------------------------------|--------------------------------|
| ELECTRICAL<br>POWER<br>SYSTEMS -07       | Power System<br>Analysis                       | Economic Operation<br>of Power Systems | Elective-I                                     | Elective-I                         |                                       | MC                              | Elective-II                                      |                                |
|                                          |                                                |                                        | Modern Control<br>Theory                       | HVDC Transmission                  |                                       | Research Methodology<br>and IPR | Electrical Power<br>Distribution System          |                                |
|                                          |                                                |                                        | Smart Grid<br>Technologies                     | Renewable Energy<br>Systems        |                                       |                                 | Reactive Power<br>Compensation and<br>Management |                                |
|                                          |                                                |                                        |                                                |                                    |                                       |                                 | Mathematical<br>Methods for Power<br>Engineering |                                |
|                                          |                                                |                                        |                                                |                                    |                                       |                                 | Hybrid Electric<br>Vehicles                      |                                |
| ENVIRONMEN<br>TAL<br>ENGINEERIN<br>G- 11 | Environmental<br>Chemistry and<br>Microbiology | Waste Water<br>Engineering             | Elective-I                                     | Elective-II                        | Elective-II                           | MC                              |                                                  |                                |
|                                          |                                                |                                        | Computational and<br>Statistical Methods       | Environmental<br>Impact Assessment | Remote Sensing<br>and GIS             | Research Methodology<br>and IPR |                                                  |                                |
|                                          |                                                |                                        | Environmental<br>System Engineering            |                                    | Water Supply<br>Systems               |                                 |                                                  |                                |
|                                          |                                                |                                        | Eco system-based<br>disaster risk<br>reduction |                                    |                                       |                                 |                                                  |                                |
| GEOTECHNIC<br>AL<br>ENGINEERIN<br>G - 12 | Advanced Soil<br>Mechanics                     | Elective-I                             |                                                | Elective-II                        | Advanced<br>Foundation<br>Engineering | MC                              |                                                  | Elective-II                    |
|                                          |                                                | Ground Improvement<br>Techniques       |                                                | Environmental<br>Impact Assessment |                                       | Research Methodology<br>and IPR |                                                  | Environmental<br>Geotechnology |
|                                          |                                                | Theoretical Soil<br>Mechanics          |                                                |                                    |                                       |                                 |                                                  | Applied Statistics             |
|                                          |                                                | Soil - Structure<br>Interaction        |                                                |                                    |                                       |                                 |                                                  |                                |

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|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------------|------------------------------------------------------------|------------------------------------------------------|---------------------------------|-------------------------------------------|-----------------------------------------|---------------------------------|-------------------------------------------------------|
| MACHINE<br>DESIGN - 15            | Advanced<br>Mechanics of<br>Solids | Advanced Mechanics<br>of Machinery |                                           | ELECTIVE-I                                                 | ELECTIVE-II                                          | MC                              | ELECTIVE-II                               | ELECTIVE-I                              |                                 |                                                       |
|                                   |                                    |                                    |                                           | Mechanical<br>Vibrations                                   | Optimization<br>Techniques &<br>Applications         | Research Methodology<br>and IPR | Design for<br>Manufacturing &<br>Assembly | Mechanical<br>Behaviour of<br>Materials |                                 |                                                       |
|                                   |                                    |                                    |                                           | Fracture<br>Mechanics                                      |                                                      |                                 |                                           |                                         | Composite<br>Materials          |                                                       |
| PRODUCTION<br>ENGINEERING<br>.-16 | Theory of Metal<br>Cutting         | ELECTIVE-II                        | ELECTIVE-I                                | Theory of Metal<br>Forming                                 | ELECTIVE-I                                           | MC                              | Elective-II                               | ELECTIVE-II                             |                                 |                                                       |
|                                   |                                    | Automation in<br>Manufacturing     | Additive<br>Manufacturing<br>Technologies |                                                            | Optimization<br>Techniques &<br>Applications         | Research Methodology<br>and IPR | Design for<br>Manufacturing &<br>Assembly | Precision<br>Engineering                |                                 |                                                       |
|                                   |                                    |                                    | Advanced<br>Manufacturing<br>Processes    |                                                            |                                                      |                                 |                                           |                                         |                                 |                                                       |
| STRUCTURAL<br>ENGINEERING<br>-20  |                                    |                                    | Advanced Structural<br>Analysis           | ELECTIVE-II                                                | ELECTIVE-I                                           | MC                              |                                           | Theory of<br>Elasticity                 |                                 |                                                       |
|                                   |                                    |                                    |                                           | Advanced<br>foundation Design<br>of reinforced<br>concrete | Advanced<br>Reinforced<br>Concrete Design            | Theory of Plates<br>and Shells  |                                           |                                         | Research<br>Methodology and IPR |                                                       |
|                                   |                                    |                                    |                                           |                                                            | Numerical<br>Methods in<br>Structural<br>Engineering |                                 |                                           |                                         |                                 | Theory and<br>Applications of<br>Cement<br>Composites |
|                                   |                                    |                                    |                                           |                                                            |                                                      |                                 |                                           |                                         |                                 | Theory of<br>Structural Stability                     |

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|-------------------------------------------|------------------------------------------|----------------------------|---------------------------------------|------------------------------------------|------------------------------------------------|---------------------------------|------------------------------------------|--------------------------------------------------------|
| THERMAL<br>ENGINEERING<br>-21             | Advanced<br>Thermodynamics               |                            | Advanced Fluid<br>Mechanics           | ELECTIVE-II                              | ELECTIVE-II                                    | MC                              |                                          | ELECTIVE-I                                             |
|                                           |                                          |                            |                                       | Computational Fluid<br>Dynamics          | Turbulence<br>Modelling                        | Research<br>Methodology and IPR |                                          | Advanced Fuel Cell<br>Technologies                     |
|                                           |                                          |                            |                                       |                                          | Nano Fluids                                    |                                 |                                          | Fuels<br>&Combustion<br>Alternate Fuels &<br>Pollution |
| TRANSPORTAT<br>ION<br>ENGINEERING -<br>22 | ELECTIVE-I<br>Traffic Engineering        | Urban Policy &<br>Planning | Pavement Material<br>Characterization | ELECTIVE-I                               | Elective-II                                    | MC                              | ELECTIVE-I<br>Road Safety<br>Engineering |                                                        |
|                                           |                                          |                            |                                       | Modeling &<br>Simulation                 | Advanced Concrete<br>Technology                | Research<br>Methodology and IPR |                                          |                                                        |
|                                           |                                          |                            |                                       |                                          | Remote sensing &<br>GIS<br>Airport Engineering |                                 |                                          |                                                        |
| SOFTWARE<br>ENGINEERING -<br>25           | Principles of<br>Software<br>Engineering |                            | Advanced Data<br>Structures           | ELECTIVE-I                               | ELECTIVE-II                                    | MC                              | ELECTIVE-II                              | ELECTIVE-I                                             |
|                                           |                                          |                            |                                       | Software<br>Development<br>Methodologies | Mobile Application<br>Security                 | Research<br>Methodology and IPR | Software Metrics                         | Software<br>Requirements and<br>Estimation             |
|                                           |                                          |                            |                                       |                                          |                                                |                                 | Object Oriented<br>Analysis & Design     |                                                        |

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|------------------------------------------------------------------------------|----------------------------------------|---------------------------------------|----------------------------------------|-------------------------------------------------------|---------------------------------------------------|---------------------------------|------------------------------------------------|----------------------------------------------|
| MICROWAVE<br>AND RADAR<br>ENGINEERING.<br>-30                                |                                        | ELECTIVE-II                           | ELECTIVE-II                            | ELECTIVE-I                                            | Advanced Digital<br>Signal Processing             | MC                              | Microwave<br>Components<br>and<br>Measurements | ELECTIVE-I                                   |
|                                                                              |                                        | Detection and<br>Estimation<br>Theory | GPS/GSS                                | Radio Navigational Aids                               |                                                   | Research Methodology<br>and IPR |                                                | Satellite<br>Communications                  |
|                                                                              |                                        |                                       | EMI/EMC                                | Cognitive Radio                                       |                                                   |                                 |                                                |                                              |
| ADVANCED<br>MANUFACTURING SYSTEMS -<br>33                                    | Theory of<br>Metal Cutting             | Automation in<br>Manufacturing        | ELECTIVE-I                             | ELECTIVE-II                                           |                                                   | MC                              | ELECTIVE-I                                     | ELECTIVE-II                                  |
|                                                                              |                                        |                                       | Product Data<br>Management             | Additive Manufacturing<br>Technologies                |                                                   | Research Methodology<br>and IPR | Design For<br>Manufacturing<br>and Assembly    | Precision<br>Engineering                     |
|                                                                              |                                        |                                       | Advanced<br>Manufacturing<br>Processes |                                                       |                                                   |                                 |                                                | Optimization<br>Techniques &<br>Applications |
| CONTROL<br>ENGINEERING<br>-37                                                |                                        |                                       | Modern Control<br>Theory               | ELECTIVE-I                                            | ELECTIVE-II                                       | MC                              | ELECTIVE-II<br>Advanced<br>Microprocessors     | Estimation of<br>Signals and<br>Systems.     |
|                                                                              |                                        |                                       |                                        | Process Modeling and<br>Simulation                    | Instrumentation and<br>Control                    | Research Methodology<br>and IPR |                                                |                                              |
|                                                                              |                                        |                                       |                                        | Intelligent Control<br>System Dynamics and<br>Control | DSP Processor<br>Architecture and<br>Applications |                                 |                                                |                                              |
| DIGITAL<br>ELECTRONICS<br>AND<br>COMMUNICATION<br>ENGINEERING/<br>SYSTEMS-38 | ELECTIVE-I                             | Advanced Digital<br>System Design     | ELECTIVE-I                             | ELECTIVE-I                                            | ELECTIVE-II                                       | MC                              | ELECTIVE-II<br>Coding Theory<br>and Techniques | Wireless<br>Communications<br>and Networks   |
|                                                                              | Design of Fault<br>Tolerant<br>Systems |                                       | System on Chip<br>Architecture         | VLSI Technology and<br>Design                         | Optical<br>Communications and<br>Networks         | Research Methodology<br>and IPR |                                                |                                              |
|                                                                              |                                        |                                       |                                        |                                                       | Wireless MIMO<br>Communications                   |                                 |                                                |                                              |

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|---------------------------------------------|----------------------------------------------|----------------------------------------|------------------------------------------------|------------------------------------------|------------------------------------|------------------------------------|-----------------------------------------------------------|------------------------|
| <b>INFORMATION TECHNOLOGY - 40</b>          | Mathematical Foundations of Computer Science | Advanced Data Structures               | ELECTIVE-I                                     | ELECTIVE-I                               | ELECTIVE-II                        | MC<br>Research Methodology and IPR |                                                           |                        |
|                                             |                                              |                                        | Object Oriented Analysis & Design              | Cloud Computing                          | Software Project Management        |                                    |                                                           |                        |
|                                             |                                              |                                        | Python Programming                             |                                          | Advanced Data Mining               |                                    |                                                           |                        |
|                                             |                                              |                                        |                                                |                                          | Mobile Application Development     |                                    |                                                           |                        |
| <b>POWER ELECTRONICS- 43</b>                | Machine Modeling and Analysis                | Power Electronic Converters            | ELECTIVE-I                                     | ELECTIVE-II                              |                                    | MC<br>Research Methodology and IPR | ELECTIVE-II<br>Reactive Power Compensation and Management |                        |
|                                             |                                              |                                        | Modern Control Theory                          | High Frequency Magnetic Components       |                                    |                                    |                                                           |                        |
|                                             |                                              |                                        | Power Electronics for Renewable Energy Systems | Hybrid Electric Vehicles                 |                                    |                                    |                                                           |                        |
|                                             |                                              |                                        | Smart Grid Technologies                        | Power Semiconductor Devices and Modeling |                                    |                                    |                                                           |                        |
|                                             |                                              |                                        | Dynamics of Electrical Machines                |                                          |                                    |                                    |                                                           |                        |
|                                             |                                              |                                        |                                                |                                          |                                    |                                    |                                                           |                        |
| <b>SYSTEMS AND SIGNAL PROCESSING- 45/93</b> |                                              | ELECTIVE-II                            | ELECTIVE-I                                     | Image and Video Processing               | Advanced Digital Signal Processing | MC<br>Research Methodology and IPR | ELECTIVE-II<br>Coding theory and Techniques               |                        |
|                                             |                                              | Biomedical Signal Processing           | Transform Techniques                           |                                          |                                    |                                    |                                                           |                        |
|                                             |                                              | Pattern Recognition & Machine Learning | Detection and Estimation Theory                |                                          |                                    |                                    |                                                           |                        |
|                                             |                                              |                                        | Random Processes and Queuing Theory            |                                          |                                    |                                    |                                                           |                        |

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|-------------------------------------------------|--------------------------------|-------------------------------------|------------------------------------------------|---------------------------------------------|----------------------|----------------------|--------------------------------------------|------------------------|--------------------------------------|------------------------------|
| <b>ELECTRICAL POWER ENGINEERING-49</b>          | Power System Analysis          | Economic Operation of Power Systems | Elective-I                                     | Elective-I                                  |                      | MC                   | ELECTIVE-II                                |                        |                                      |                              |
|                                                 |                                |                                     | Modern Control Theory                          | HVDC Transmission                           |                      |                      | Electrical Power Distribution System       |                        |                                      |                              |
|                                                 |                                |                                     | Smart Grid Technologies                        | Renewable Energy Systems                    |                      |                      | Reactive Power Compensation and Management |                        |                                      |                              |
|                                                 |                                |                                     |                                                |                                             |                      |                      | Mathematical Methods for Power Engineering |                        |                                      |                              |
|                                                 |                                |                                     |                                                |                                             |                      |                      | Hybrid Electric Vehicles                   |                        |                                      |                              |
| <b>DESIGN FOR MANUFACTURING-52</b>              | ELECTIVE-II                    | Advanced Computer Aided Design      | ELECTIVE-I                                     | ELECTIVE-I                                  | Elective-II          | MC                   | Design for Manufacturing & Assembly        |                        |                                      |                              |
|                                                 | Flexible Manufacturing Systems |                                     | Advanced Manufacturing Processes               | Optimization Techniques & Applications      |                      |                      |                                            |                        | Quality Engineering in Manufacturing | Research Methodology and IPR |
|                                                 |                                |                                     |                                                | MEMS & Micro Systems : Design & Manufacture |                      |                      |                                            |                        | Theory of Elasticity & Plasticity    |                              |
| <b>POWER ELECTRONICS AND ELECTRIC DRIVES-54</b> | Machine Modeling and Analysis  | Power Electronic Converters         | ELECTIVE-I                                     | ELECTIVE-II                                 |                      | MC                   | ELECTIVE-II                                |                        |                                      |                              |
|                                                 |                                |                                     | Modern Control Theory                          | High Frequency Magnetic Components          |                      |                      | Reactive Power Compensation and Management |                        |                                      |                              |
|                                                 |                                |                                     | Power Electronics for Renewable Energy Systems | Hybrid Electric Vehicles                    |                      |                      |                                            |                        |                                      |                              |
|                                                 |                                |                                     | Smart Grid Technologies                        | Power Semiconductor Devices and Modeling    |                      |                      |                                            |                        |                                      |                              |
|                                                 |                                |                                     | Dynamics of Electrical Machines                |                                             |                      |                      |                                            |                        |                                      |                              |

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| EMBEDDED SYSTEMS-55                     | ELECTIVE-II                                  | System Design with Embedded Linux | Microcontrollers & Programmable Digital Signal Processors | ELECTIVE-II                    |                      | MC                           | ELECTIVE-I              | ELECTIVE-I                           |                                             |                              |                              |
|                                         | Communications Buses & Interfaces            |                                   |                                                           | Advanced Computer Architecture |                      | Research Methodology and IPR |                         |                                      | Programming Languages for Embedded Software | AI & Machine Learning        |                              |
|                                         | Parallel Processing                          |                                   |                                                           |                                |                      |                              |                         |                                      | Computer Vision                             |                              |                              |
| VLSI/ VLSI DESIGN/VLSI SYSTEM DESIGN-57 | ELECTIVE-I                                   | Digital Design & Verification     | Microcontrollers & Programmable Digital Signal Processors | ELECTIVE-I                     | ELECTIVE-II          | MC                           |                         |                                      |                                             |                              |                              |
|                                         | Communications Buses & Interface             |                                   |                                                           | Advanced Computer Architecture |                      | DSP Architecture             |                         |                                      | Research Methodology and IPR                |                              |                              |
|                                         | Nanomaterials & Nanotechnology               |                                   |                                                           |                                |                      | IOT and its Applications     |                         |                                      |                                             |                              |                              |
|                                         |                                              |                                   |                                                           | Hardware Software Co-Design    |                      |                              |                         |                                      |                                             |                              |                              |
| COMPUTER SCIENCE AND ENGINEERING - 58   | Mathematical Foundations of Computer Science | Advanced Data Structures          | Elective-II                                               | Elective-II                    | Elective-I           | MC                           | Elective-I              |                                      |                                             |                              |                              |
|                                         |                                              |                                   | Network Security                                          | Cloud Computing                |                      |                              |                         |                                      | Mobile Application Development              | Research Methodology and IPR | Machine Learning             |
|                                         |                                              |                                   |                                                           | Data Mining                    |                      |                              |                         |                                      |                                             |                              | Information Security         |
| COMMUNICATION SYSTEMS - 61              | ELECTIVE-II                                  | ELECTIVE-I                        | Advanced Data Communications                              | ELECTIVE-I                     | ELECTIVE-I           | MC                           | ELECTIVE-II             | Wireless Communications and Networks |                                             |                              |                              |
|                                         | Spread Spectrum Communications               |                                   |                                                           | Cognitive Radio                |                      |                              |                         |                                      | TCP/IP                                      | Research Methodology and IPR | 4G Technologies              |
|                                         |                                              |                                   |                                                           |                                |                      |                              |                         |                                      | Internetworking                             |                              | Coding Theory and Techniques |

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| WEB<br>TECHNOLOGY -<br>62                       | Mathematical<br>Foundations of<br>Computer Science | Advanced Data<br>Structures               | ELECTIVE-I                             | ELECTIVE-I                  | ELECTIVE-II                             | MC                              | Research Methodology<br>and IPR                     |                                                |
|                                                 |                                                    |                                           | Object Oriented<br>Analysis & Design   | Cloud Computing             | Software Project<br>Management          | Advanced Data Mining            |                                                     |                                                |
|                                                 |                                                    |                                           | Python<br>Programming                  |                             | Mobile Application<br>Development       |                                 |                                                     |                                                |
| POWER<br>ENGINEERING<br>& ENERGY<br>SYSTEMS 64  | Renewable Energy<br>Technologies                   | Economic<br>Operation of<br>Power Systems | ELECTIVE-I                             | ELECTIVE-II                 | ELECTIVE-II                             | MC                              | ELECTIVE-II                                         | ELECTIVE-I                                     |
|                                                 |                                                    |                                           | Smart Grid<br>Technologies             | Hybrid Electric<br>Vehicles | Electrical Power<br>Distribution System | Research Methodology<br>and IPR | Reactive Power<br>Compensation<br>and<br>Management | Engineering<br>Heat Transfer                   |
|                                                 |                                                    |                                           | Modern Control<br>Theory               |                             |                                         |                                 | Mathematical<br>Methods for<br>Power<br>Engineering |                                                |
| WIRELESS AND<br>MOBILE<br>COMMUNICATI<br>ONS-65 |                                                    | ELECTIVE-I                                | Ad-hoc and Wireless<br>sensor Networks | ELECTIVE-II                 | ELECTIVE-I                              | MC                              | ELECTIVE-II                                         | Wireless<br>Communicatio<br>ns and<br>Networks |
|                                                 |                                                    | Detection and<br>Estimation Theory        |                                        | Mobile Computing            | TCP/IP<br>Internetworking               | Research Methodology<br>and IPR | Coding Theory<br>and<br>Techniques                  |                                                |
|                                                 |                                                    | Antenna Theory<br>& Design                |                                        | Wireless LANs &<br>PANs     |                                         |                                 |                                                     |                                                |

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EXAMINATION BRANCH

**M.TECH .I YEAR -I SEMESTER -R19 REGULATION- SUPPLEMENTARY EXAMINATIONS OCTOBER-2021**

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**TIME: 09:45 AM TO 12:45PM**

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|-----------------------------------------------|-----------------------------------|--------------------------------|-----------------------------------------------------------|---------------------------------|---------------------------------------------|-----------------------------------------------------------|--------------------------------|----------------------------------------|------------------------------|---------------------------------------------|----------------------------------------|
| VLSI AND EMBEDDED SYSTEMS-68                  | ELECTIVE-II                       |                                | Microcontrollers & Programmable Digital Signal Processors | Elective-II                     |                                             | MC                                                        | ELECTIVE-I                     | RTL Simulation and Synthesis with PLDs |                              |                                             |                                        |
|                                               | Parallel Processing               |                                |                                                           | Advanced Computer Architecture  |                                             |                                                           |                                |                                        | Research Methodology and IPR | Programming Languages for Embedded Software |                                        |
|                                               |                                   |                                |                                                           | CAD of Digital Systems          |                                             |                                                           |                                |                                        |                              |                                             | Digital Signal & Image Processing      |
|                                               |                                   |                                |                                                           |                                 |                                             |                                                           |                                |                                        |                              |                                             | Memory Technologies                    |
| ELECTRONICS AND COMMUNICATION ENGINEERING .70 | ELECTIVE-I                        | Advanced Digital System Design | ELECTIVE-I                                                | ELECTIVE-I                      | ELECTIVE-II                                 | MC                                                        | ELECTIVE-II                    | Wireless Communications and Networks   |                              |                                             |                                        |
|                                               | Design of Fault Tolerant Systems  |                                | System on Chip Architecture                               | VLSI Technology and Design      |                                             |                                                           |                                |                                        | Wireless MIMO Communications | Research Methodology and IPR                | Coding Theory and Techniques           |
| CONTROL SYSTEMS – 75                          |                                   |                                | Modern Control Theory                                     | ELECTIVE-I                      | ELECTIVE-II                                 | MC                                                        | ELECTIVE-II                    | Estimation of Signals and Systems.     |                              |                                             |                                        |
|                                               |                                   |                                |                                                           | Process Modeling and Simulation | Instrumentation and Control                 |                                                           |                                |                                        | Research Methodology and IPR | Advanced Microprocessors                    |                                        |
|                                               |                                   |                                |                                                           | Intelligent Control             | DSP Processor Architecture and Applications |                                                           |                                |                                        |                              |                                             |                                        |
| SYSTEM DYNAMICS AND CONTROL                   |                                   |                                |                                                           | System Dynamics and Control     |                                             |                                                           |                                |                                        |                              |                                             |                                        |
|                                               |                                   |                                |                                                           | ELECTIVE-II                     | Parallel Processing                         | Microcontrollers & Programmable Digital Signal Processors | Elective-II                    |                                        | MC                           | ELECTIVE-I                                  | RTL Simulation and Synthesis with PLDs |
|                                               |                                   |                                |                                                           |                                 |                                             |                                                           | Advanced Computer Architecture |                                        |                              |                                             |                                        |
| CAD of Digital Systems                        | Digital Signal & Image Processing | Memory Technologies            |                                                           |                                 |                                             |                                                           |                                |                                        |                              |                                             |                                        |

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|--------------------------------------------------------|-------------------------------------------------|----------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------|------------------------------|-------------------------|------------------------|-------------------------------|
| COMPUTER NETWORKS AND INFORMATION SECURITY (CNIS) - 78 |                                                 | Advanced Data Structures                           | ELECTIVE-II                                     | ELECTIVE-I                                      | Distributed Systems                       | MC                           |                         |                        |                               |
|                                                        |                                                 |                                                    | Network Security                                | Information Security                            |                                           | Research Methodology and IPR |                         |                        |                               |
|                                                        |                                                 |                                                    | Advanced Wireless Networks                      | Network Coding Theory                           |                                           |                              |                         |                        |                               |
|                                                        |                                                 |                                                    | Trustworthy Computing                           | Cryptanalysis                                   |                                           |                              |                         |                        |                               |
| MECHATRONICS- 80                                       | Applied Industrial Pneumatics                   | Applied Industrial Hydraulics                      | ELECTIVE-I                                      | ELECTIVE-II                                     |                                           | MC                           |                         |                        |                               |
|                                                        |                                                 |                                                    | Industrial Electrical & Electronics             | Control systems                                 |                                           | Research Methodology and IPR |                         |                        |                               |
|                                                        |                                                 |                                                    | Artificial Intelligence                         | Instrumentation & Sensor Technology             |                                           |                              |                         |                        |                               |
|                                                        |                                                 |                                                    | Programmable Logic Controllers and Applications | Micro-controller & Applications                 |                                           |                              |                         |                        |                               |
| INFRASTRUCTURE ENGG-81                                 | ELECTIVE-I                                      | Transportation & Storm water conservation planning | ELECTIVE-II                                     | Topographic analysis & Land Utilization Studies | ELECTIVE-I                                | MC                           |                         |                        |                               |
|                                                        | Water Resources systems planning and management |                                                    | Geotechniques infrastructure                    |                                                 | Project planning and Financial management | Research Methodology and IPR |                         |                        |                               |
|                                                        |                                                 |                                                    | Infrastructure planning for Airports            |                                                 |                                           |                              |                         |                        | Planning of Ports and Harbors |
|                                                        |                                                 |                                                    | Building planning and construction              |                                                 |                                           |                              |                         |                        |                               |

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|------------------------------------------------|------------------------------|---------------------------------|------------------------------------|----------------------------------------|-----------------------------------------------|------------------------------|-------------------------------------|------------------------------------|
| COMPUTER NETWORKS-82                           |                              | Advanced Data Structures        | ELECTIVE-II                        | ELECTIVE-I                             | Distributed Systems                           | MC                           |                                     |                                    |
|                                                |                              |                                 | Network Security                   | Information Security                   |                                               | Research Methodology and IPR |                                     |                                    |
|                                                |                              |                                 | Advanced Wireless Networks         | Network Coding Theory                  |                                               |                              |                                     |                                    |
|                                                |                              |                                 | Trustworthy Computing              | Cryptanalysis                          |                                               |                              |                                     |                                    |
| HIGHWAY ENGINEERING - 87                       | ELECTIVE-I                   | Highway Policy & Planning       | Pavement Material Characterization | ELECTIVE-II                            | ELECTIVE-II                                   | MC                           | ELECTIVE-I                          |                                    |
|                                                | Traffic Engineering          |                                 |                                    | Pavement Design & Evaluation           | Remote Sensing & GIS                          | Research Methodology and IPR | Road Safety Engineering             |                                    |
|                                                |                              |                                 |                                    |                                        | Road Engineering                              |                              | Modeling for highway simulation     |                                    |
| ELECTRONICS AND INSTRUMENTATION ENGINEERING-88 | Transducers and Applications | Signal Conditioning Circuits    | ELECTIVE-I                         |                                        | ELECTIVE-I                                    | MC                           | ELECTIVE-II                         | ELECTIVE-II                        |
|                                                |                              |                                 | Advanced Microcontrollers          |                                        | Electronic System Design                      | Research Methodology and IPR | Digital Instrumentation             | Advanced Digital Signal Processing |
|                                                |                              |                                 | Transform Techniques               |                                        |                                               |                              | Neural Networks and Fuzzy Logic     |                                    |
| HEATING VENTILATION & AIR CONDITIONING -91     | ELECTIVE-I                   | ELECTIVE-II                     | Air Conditioning                   | ELECTIVE-II                            | ELECTIVE-I                                    | MC                           | Refrigeration                       |                                    |
|                                                | Advanced Thermodynamics      | Advanced Heat Transfer          |                                    | Conduction and Radiation Heat Transfer | Equipment Design for Thermal Systems          | Research Methodology and IPR |                                     |                                    |
|                                                |                              |                                 |                                    | Convective Heat and Mass Transfer      | Advanced Thermal Storage Technologies         |                              |                                     |                                    |
| ENGINEERING DESIGN. - 95                       | Advanced Mechanics of Solids | Advanced Mechanics of Machinery |                                    | ELECTIVE-I                             | ELECTIVE-II                                   | MC                           | Elective-II                         | ELECTIVE-I                         |
|                                                |                              |                                 |                                    | Advanced Machine Design                | Optimization Techniques & Applications        | Research Methodology and IPR | Design for Manufacturing & Assembly | Theory of Elasticity               |
|                                                |                              |                                 |                                    | Random Vibrations                      | Mechanical Behaviour of Engineering Materials |                              |                                     |                                    |

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|------------------------------------|-------------------------------------|----------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------|------------------------------------------|---------------------------------|---------------------------------------------|------------------------------------------|
| CONSTRUCTION<br>MANAGEMENT -<br>A1 |                                     | Quantitative<br>Methods in<br>Construction<br>Management | ELECTIVE-II                                                        | ELECTIVE-I                           | Construction<br>Methods and<br>Equipment | MC                              | ELECTIVE-II                                 | ELECTIVE-I                               |
|                                    |                                     |                                                          | Geotechnics for<br>Infrastructure.                                 | Infrastructure<br>Valuation          |                                          | Research<br>Methodology and IPR | Integrated Water<br>Resource<br>Management. | Construction<br>Engineering<br>practices |
|                                    |                                     |                                                          |                                                                    | Formwork and<br>scaffolding design.  |                                          |                                 | Repair &<br>Rehabilitation of<br>Buildings  |                                          |
| CYBER<br>SECURITY - A3             |                                     | Advanced Data<br>Structures                              | ELECTIVE-II                                                        | ELECTIVE-I                           | Distributed Systems                      | MC                              |                                             |                                          |
|                                    |                                     |                                                          | Network Security                                                   | Information<br>Security              |                                          | Research<br>Methodology and IPR |                                             |                                          |
|                                    |                                     |                                                          | Advanced Wireless<br>Networks                                      | Network Coding<br>Theory             |                                          |                                 |                                             |                                          |
|                                    |                                     |                                                          | Trustworthy<br>Computing                                           | Cryptanalysis                        |                                          |                                 |                                             |                                          |
| VLSI DESIGN- A5                    | ELECTIVE-I                          | Digital Design &<br>Verification                         | Microcontrollers &<br>Programmable<br>Digital Signal<br>Processors | ELECTIVE-I                           | ELECTIVE-II                              | MC                              |                                             |                                          |
|                                    | Communications<br>Buses & Interface |                                                          |                                                                    | Advanced<br>Computer<br>Architecture | DSP Architecture                         | Research<br>Methodology and IPR |                                             |                                          |
|                                    | Nanomaterials &<br>Nanotechnology   |                                                          |                                                                    |                                      | IOT and its<br>Applications              |                                 |                                             |                                          |
|                                    |                                     |                                                          |                                                                    |                                      | Hardware<br>Software Co-Design           |                                 |                                             |                                          |

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| ARTIFICIAL INTELLIGENCE-A9 | Artificial Intelligence and Intelligent Systems | Elective-I                 |                                       | Statistical Foundations for Artificial Intelligence | Elective-II                  | MC                   | Elective-I<br>Machine Learning | Elective-II<br>Computer Vision |
|                            |                                                 | Advanced Data Structures   |                                       |                                                     | Cognitive Systems            |                      |                                |                                |
|                            |                                                 | Ad-hoc and Sensor Networks |                                       |                                                     | Game Theory and Applications |                      |                                |                                |
| DATA SCIENCE-B0            | Statistical Foundations for Data Science        | Elective-II                | Advanced Data Structures using Python | Elective-I                                          | Elective-II                  | MC                   |                                |                                |
|                            |                                                 | Ad-hoc and Sensor Networks |                                       | Image and Video Analytics                           | Social Media Analytics       |                      |                                |                                |
|                            |                                                 |                            |                                       | Advanced Artificial Intelligence                    | Visual Analytics             |                      |                                |                                |
|                            |                                                 |                            |                                       | Information Security                                |                              |                      |                                |                                |

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- (II). EVEN IF GOVERNMENT DECLARES HOLIDAY ON ANY OF THE ABOVE DATES.THE EXAMINATIONS SHALL BE CONDUCTED AS USUAL