

# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY-HYDERABAD-500085

EXAMINATION BRANCH

**M.TECH. I YEAR -I SEMESTER -R19 REGULATION- REGULAR/SUPPLEMENTARY EXAMINATIONS APRIL-2022**

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

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

| Course                                       | 04-04-2022<br>MONDAY                         | 07-04-2022<br>THURSDAY           | 09-04-2022<br>SATURDAY          | 12-04-2022<br>TUESDAY               | 16-04-2022<br>SATURDAY       | 19-04-2022<br>TUESDAY        | 21-04-2022<br>THURSDAY                      | 23-04-2022<br>SATURDAY                |
|--|--|----------------------------------|---------------------------------|-------------------------------------|------------------------------|------------------------------|---|---------------------------------------|
| CAD/CAM-04                                   |  | Elective-II                      | Elective-II                     | Elective-I                          | Computer Aided Manufacturing | MC                           | Elective-II                                 | Advanced CAD                          |
|  |  | Automation in Manufacturing      | Computer Aided Process Planning | Mechanical Behavior of Materials    |                              | Research Methodology and IPR | Industrial Robotics                         |                                       |
|  |  |                                  |                                 | Experimental Stress Analysis        |                              |                              |   |                                       |
|  |  |                                  |                                 | Additive Manufacturing Technologies |                              |                              |   |                                       |
| COMPUTER SCIENCE-05                          | Mathematical Foundations of Computer Science | Advanced Data Structures         | Elective-II                     | Elective-II                         |                              | MC                           | Elective-I                                  |                                       |
|  |  |                                  | Network Security                | Cloud Computing                     |                              | Research Methodology and IPR | Machine Learning                            |                                       |
|  |  |                                  |                                 | Data Mining                         |                              |                              | Mobile Application Development              |                                       |
|  |  |                                  |                                 |                                     |                              |                              | Information Security                        |                                       |
| DIGITAL SYSTEMS AND COMPUTER ELECTRONICS -06 |  | Digital Systems Design with PLDs | Elective-II                     | VLSI Technology and Design          | Elective-I                   | MC                           | Elective-II                                 | Elective-I                            |
|  |  |                                  | Advanced Data Communications    |                                     | Embedded System Design       | Research Methodology and IPR | Digital Signal Processors and Architectures | CMOS Analog Integrated Circuit Design |
|  |  |                                  | TCP/IP and ATM Networks         |                                     | Advanced 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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|---|--------------------------------------|---|--|--|---|---------------------------------|---|------------------------|
| ELECTRICAL<br>POWER<br>ENGINEERING-<br>49         | Power System<br>Analysis             | Economic<br>Operation of<br>Power Systems | Elective-I   | Elective-I                                     |   | MC                              | ELECTIVE-II   |                        |
|   |                                      |   | Modern Control<br>Theory                             | HVDC Transmission                              |   | Research<br>Methodology and IPR | Electrical Power<br>Distribution<br>System          |                        |
|   |                                      |   | Smart Grid<br>Technologies                           | Renewable Energy<br>Systems                    |   |                                 | Reactive Power<br>Compensation<br>and<br>Management |                        |
|   |                                      |   |  |  |   |                                 | Mathematical<br>Methods for<br>Power<br>Engineering |                        |
|   |                                      |   |  |  |   |                                 | Hybrid Electric<br>Vehicles                         |                        |
|   |                                      |   |  |  |   |                                 |   |                        |
| DESIGN FOR<br>MANUFACTURI<br>NG-52                | ELECTIVE-II                          | Advanced<br>Computer Aided<br>Design      | ELECTIVE-I   | ELECTIVE-I                                     | Elective-II                             | MC                              | Design for<br>Manufacturing<br>& Assembly           |                        |
|   | Flexible<br>Manufacturing<br>Systems |   | Advanced<br>Manufacturing<br>Processes               | Optimization<br>Techniques &<br>Applications   | Quality Engineering<br>in Manufacturing | Research<br>Methodology and IPR |   |                        |
|   |                                      |   |  | MEMS & Micro Systems<br>: Design & Manufacture | Theory of Elasticity &<br>Plasticity    |                                 |   |                        |
|   |                                      |   |  |  |   |                                 |   |                        |
| POWER<br>ELECTRONICS<br>AND ELECTRIC<br>DRIVES-54 | Machine Modeling<br>and Analysis     | Power Electronic<br>Converters            | ELECTIVE-I   | ELECTIVE-II                                    |   | MC                              | ELECTIVE-II   |                        |
|   |                                      |   | Modern Control<br>Theory                             | High Frequency<br>Magnetic Components          |   | Research<br>Methodology and IPR | Reactive Power<br>Compensation<br>and<br>Management |                        |
|   |                                      |   | Power Electronics<br>for Renewable<br>Energy Systems | Hybrid Electric Vehicles                       |   |                                 |   |                        |
|   |                                      |   | Smart Grid<br>Technologies                           | Power Semiconductor<br>Devices and Modeling    |   |                                 |   |                        |
|   |                                      |   | Dynamics of<br>Electrical Machines                   |  |   |                                 |   |                        |
|   |                                      |   |  |  |   |                                 |   |                        |
|   |                                      |   |  |  |   |                                 |   |                        |

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

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