# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINADA
## EXAMINATION BRANCH: KAKINADA – 500 033
## M.Tech I semester 09 Regulations – (09 Admitted onwards) Regular & Suppl., Examinations – April/May, 2012
## T I M E T A B L E

**Time: 10.00 AM to 1.00 PM**

| BRANCHES/ Specializations | 16.04.2012 Monday | 18.04.2012 Wednesday | 20.04.2012 Friday | 23.04.2012 Monday | 25.04.2012 Wednesday | 27.04.2012 Friday | 30.04.2012 Monday | 02.05.2012 Wednesday | 04.05.2012 Friday |
|---|---|---|---|---|---|---|---|---|---|
| BIO TECHNOLOGY (03-B.T.) | Advanced Micro Biology | Advanced Bio-Chemistry | Advanced Bio-Chemical Engineering | Advanced Downstream Processing | Bio-Analytical Techniques<br>Bio-Informatics | -- | ---- | ---- | --- |
| CIVIL STRUCTURAL ENGINEERING | Advanced Applied Mathematics | Theory of Elasticity and Plasticity | Matrix Analysis of Structures | Theory and Plates and Shells | Elective-I Experimental Stress Analysis<br>Foundation Engineering-I<br>Optimization in Structural Design | Elective-II Advanced Concrete Technology<br>Offshore Construction<br>Plastic Analysis and Design | --- | --- | --- |
| CIVIL TRANSPORTATION ENGINEERNING | Applied Numerical Methods | Pavement Materials and Construction | Traffic Engineering | Design and Evaluation of Pavements | Optimization Techniques | Elective -I Transportation Structures<br>Ground Improvement Techniques<br>Environmental Impact Assessment | --- | --- | --- |

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| MECHANICAL CAD/CAM (04) | Advances in Manufacturing Technology | Computer Integrated Manufacturing | Geometric Modeling | Finite Element Methods | Elective – I Non Destructive Evaluation | Elective – II Design for Manufacturing | --- | --- | --- |
| | | | | | Computational Methods | Computer Aided Process Planning | | | |
| | | | | | Nano-Technology | Mechatronics | | | |
| | | | | | Quality Engg. & Manufacturing | Fracture Fatigue & Creep Deformation | | | |
| MECHANICAL MACHINE DESIGN (15) | Advanced Mechanisms | Advanced Mechanisms of Solids | Geometric Modeling | Finite Element Methods | Elective – I Continuum Mechanics & Tensor Analysis | Elective – II Fracture, Fatigue & Creep deformation | --- | --- | --- |
| | | | | | Computational Methods | Materials Technology | | | |
| | | | | | Tribology | Gear Engineering | | | |
| | | | | | Non Destructive Evaluation | Design for Manufacturing | | | |
| MECHANICAL THERMAL ENGINEERING | Optimization Techniques & Applications | Advanced Thermodynamics | Advanced Heat & Mass Transfer | Advanced Fluid Mechanics | Turbo-Machines | Advanced I.C. Engines | --- | --- | --- |
| | | | | | Cryogenics Engineering | Non-Conventional Energy Sources | | | |
| | | | | | Solar Energy Technology | Material Science | | | |
| C S E COMPUTER SCIENCE ENGG & COMPUTURE SCIENCE (58) & (05) | Data Structures and Algorithm Analysis | Mathematical Foundation of Computer Science | Computer Organization and Architecture | Database Management Systems | Operating Systems | Object Oriented Programming | -- | -- | --- |
| C S E INFORMATION TECHNOLOGY (40) | Advanced Data Structures and Algorithms | Scalable Parallel Computing Architectures | Distributed Operating Systems | Data Mining and Knowledge Discovery | Code Optimization | Secured Database Application Development | --- | --- | --- |

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| C S E NEURAL NETWORKS (69) | Data structures and Algorithm Analysis | Artificial Neural Networks | Computer Organization and Architecture | Database Management Systems | Operating Systems | Artificial Intelligence and Soft Computing | --- | --- | --- |
| C S E SOFTWARE ENGINEERING (25) | Advanced Data Structures and Algorithms | ERP & Supply Chain Management | Software Quality Assurance & Testing | Software Requirement & Estimation | Mobile Computing | Elective – 1 Business Process Modeling | Web Technologies | --- | --- |
| CSE COMPUTE NETWORKS AND INFORMATION SECURITY (84) | Advanced Networking Concepts | Applied Cryptography | Distributed Architectures & Middleware Technologies | Penetration testing and Network Defense | Software Architecture and Process Management | Embedded Systems and Real Time Systems | Web Technologies | --- | --- |
| | | | | | | Date Warehousing and Mining | | | |
| | | | | | Multimedia & Application Development | Advanced Databases | | | |
| | | | | | Computer Forensics and Investigations | Grid and Cluster Computing | | | |
| CSE COMPUTE NETWORKS (88) | Network Programming | Network Security | Computer communications | Internetworking with TCP/IP | Mobile Computing | Wireless Communications and Networks | -- | --- | --- |
| E C E DECS (38) | Elective – I Advanced Digital Signal Processing | VLSI Technology and Design | Digital Data Communication | Elective – II Embedded & Real Time Systems | Digital System Design | Detection & Estimation of Signals | Elective-I Transform Techniques | ---- | --- |
| | | | | Coding Theory & Practice | | | | | |
| E C E DIGITAL IMAGE PROCESSING (63) | Advanced Digital Signal Processing | Elective – II VLSI Technology and Design | Elective – I Digital Data Communications | Coding Theory and Practice | Image Processing | Elective – II Networks Security and Cryptography | Transform Techniques | Elective – I Neural Network & Applications | Elective – II Hardware Software Co-Design |
| | | | Embedded Software Design | | | | | | |

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| E C E<br>DSCE (06) | -- | VLSI Technology & Design | Elective – I<br>Digital Data Commutations<br>Neural Networks & Fuzzy Systems | Elective – II<br>Embedded & Real Time Systems | Digital System Design | Elective – II<br>Networks Security and Cryptography | Advanced Computer Architecture | --- | Advanced Operating System |
| E C E<br>ECE (70) | Elective – I<br>Advanced Digital Signal Processing | VLSI Technology & Design | Digital Data Communications | Elective – II<br>Embedded & Real Time Systems<br>Coding Theory & Practice | Statistical Signal Processing | Detection & Estimation of Signals | Elective – I<br>Transform Techniques | --- | --- |
| E C E<br>ES (55) | Embedded Systems Concepts | VLSI Technology and Design | Elective – I<br>Embedded Software Design | Elective – II<br>Embedded & Real Time Systems | | Elective – I<br>VHDL Modeling of Digital Systems | Embedded Systems Design | Analog and Digital IC Design | Elective – II<br>Hardware Software Co-Design |
| E C E<br>SSP (45) | Elective – I<br>Advanced Digital Signal Processing | VLSI Technology and Design | Digital Data Communication | Coding Theory and Practice | Statistical Signal Processing | **Elective – II**<br>Image and Video Processing | **Elective – I**<br>Transform Techniques | **Elective – II**<br>Neural Networks and Applications | --- |
| E C E<br>VLSI & ES (68) | Embedded Systems Concepts | VLSI Technology and Design | Elective – I<br>Embedded Software Design | -- | Elective – I<br>Digital System Design | **Elective – II**<br>VHDL Modeling of Digital Systems | Embedded Systems Design | Analog And Digital IC Design | Elective – II<br>Hardware Software Co-Design |
| E C E<br>VLSID & VLSD/VLSI<br>(72 & 57) | Embedded Systems Concepts | VLSI Technology and Design | Elective – I<br>Digital Data Communications | -- | Digital System Design | **Elective – I**<br>VHDL Modeling of Digital Systems | Elective – II<br>Electronic Design Automation Tools<br>Embedded Systems Design | Analog and Digital IC Design | --- |

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| E C E<br><br>MICROWAVE & COMMUNICATION ENGINEERING | Time-Harmonic Electromagnetic Fields | Fiber Optic Components, Devices & Measurements | Optical Communication & Networks | **Elective-II**<br><br>Coding Theory and Practice | **Elective-I**<br>Planer Transmission Lines & Microwave Integrated circuits<br>Advanced Digital Communication | **Elective-II**<br>RF Circuit Design | Antenna arrays and Synthesis | -- | --- |
| E E E<br>POWER ELECTRONICS (43) | Electrical Machine Modeling and Analysis | Analysis of Power Electronic Converters | ----- | Microcontroller & Applications | Elective – I<br>Modern Control Theory<br>Power Semiconductor Devices & Protection | Elective – II<br>Special Machines and Controls<br>Renewable Energy Sources | --- | Power Electronic Control of DC Drives | --- |
| E E E<br>POWER ELECTRONICS AND DRIVES | Electrical Machine Modeling and Analysis | Analysis of Power Electronic Converters | ----- | Microcontroller & Applications | Elective – I<br>Modern Control Theory<br>Power Semiconductor Devices & Protection | Elective – II<br>Special Machines and Controls<br>Renewable Energy Sources | --- | Power Electronic Control of DC Drives | --- |
| E E E<br>POWER ELECTRONICS AND ELECTRI DRIVES (54) | Electrical Machine Modeling and Analysis | Analysis of Power Electronic Converters | ----- | Microcontroller & Applications | Elective – I<br>Modern Control Theory<br>Power Semiconductor Devices & Protection | Elective – II<br>Special Machines and Controls<br>Renewable Energy Sources | --- | Power Electronic Control of DC Drives | --- |
| E E E<br>POWER AND INDUSTRIAL DRIVES (42) | Electrical Machine Modeling and Analysis | Analysis of Power Electronic Converters | ------ | Microcontroller and Applications | Elective – I<br>Modern Control Theory<br>Power Semiconductor Devices & Protection | Elective – II<br>Special Machines and Controls<br>Renewable Energy Sources | --- | Power Electronic Control of DC Drives | --- |

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| E E E POWER SYSTEMS WITH EMPHASIS ON HV ENGG | -- | High Voltage Power Apparatus and Diagnostics | -- | Elective – II Reactive Power Compensation & Management | Elective – I High Voltage Systems using EMTP Analysis | Dielectric and Insulation Engineering | Generation and Measurement of High Voltages | HVDC Transmissions | Elective – II Microprocessors & Microcontrollers |
| POWER ELECTRONICS AND POWER SYSTEMS (99) | Power System Operation and Control | Analysis of Power Electronic Converters | Electrical Distribution System | Reactive Power Compensation & Management | ------ | Special Machines and Controls | ------ | Power Electronic Control of DC Drives | ----- |
| E E E POWER SYSTEMS (56) | Power System Operation and Control | ----- | Elective – I Electrical Distribution System | Reactive Power Compensation & Management | Elective – II AI Techniques<br>Power system Security | --- | Elective – I EHVAC Transmissions<br>Power Quality | HVDC Transmissions | Microprocessors & Microcontrollers |
| E E E P.S. CONTROL AND AUTOMATION (53) | Power System Operation and Control | ----- | Elective – I Electrical Distribution System | Reactive Power Compensation & Management | Elective – II AI Techniques<br>Power System Security<br>Advanced DSP | -- | Elective – I EHVAC Transmissions<br>Power Quality | HVDC Transmissions | Microprocessors & Microcontrollers |
| E E E ELECTRICAL MACHINES AND DRIVES (44) | Electrical Machine Modeling and Analysis | Analysis of Power Electronic Converters | ----- | Microcontroller & Applications | Elective – I Modern Control Theory<br>Power Semiconductor Devices & Protection | Elective – II Special Machines and Controls<br>Renewable Energy Sources | --- | Power Electronic Control of DC Drives | --- |
| CHEMICAL ENGINEERING (51) | Applied Numerical Methods | Advanced Chemical Reaction Engg | Advanced Transport Phenomena | Advanced Bio Process Engineering<br>Enzyme and Microbial Technology<br>Industrial Microbial Products | Nano-Technology | -- | -- | -- | -- |

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| CONTROL SYSTEMS (95) | Advanced Control theory | Digital Control Systems | Random Variable Stochastic Process | Micro Controller & Applications | **Elective – I** Computer Controlled Systems | **Elective – II** System Identifications and Parameter Estimations Computation | --- | --- | --- |
| | | | | | Control of Special Machines | Techniques and Optimization | | | |
| NANO TECHNOLOGY (96) | Structure, Bonding and Quantum mechanics of electronics | Synthesis of Nanomaterials | Science and technology of Thin-film | Nano Biotechnology , materials and devices | Numerical methods and Advanced Computing Techniques | **Elective – I** Nanotechnology for energy systems | ---- | --- | ---- |
| | | | | | | Surface sciences and advanced catalysis | | | |
| | | | | | | Thermodynamics | | | |
| COMMUNICATION AND SIGNAL PROCESSING (80) | Communication Theory | Digital Data Communications | Coding Theory And Practice | Digital Signal Processing | **Elective – I** Transform Techniques | **Elective – II** VLSI Technology & Design | ---- | --- | ---- |
| | | | | | Radar Signal Processing | Micro Controller Applications | | | |

NOTE: ( i) If Government declares holiday on any of the above dates, the examinations will be conducted as usual

(ii ) Any omissions or clashes in this Time Table may please be informed to the Controller of Examinations immediately.

(iii) The Principals are requested to inform the University, if any other substitute subjects that are not included in the above list immediately.

A.m.prasad

**Date:28-03-2012**

**Controller of Examinations**

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## M.Tech I semester 10 Regulations – (10 Admitted Batch only ) Regular Examinations –April/May, 2012
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|---|---|---|---|---|---|---|---|---|---|
| BIO TECHNOLOGY (03-B.T.) | Microbial Technology | Metabolic Engineering | Bioprocess Engineering | Enzyme Engineering & Fermentation Technology | Elective-I Molecular Fundamentals of Biology | Elective-II Immuno technology | ---- | ---- | --- |
| | | | | | Chemical Plant & Equipment Design | Nano Biotechnology | | | |

NOTE: ( i) If Government declares holiday on any of the above dates, the examinations will be conducted as usual

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A.m.prasad

**Date:28-03-2012** **Controller of Examinations**