

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
EXAMINATIONS BRANCH, KAKINADA- 533003**

M.TECH II SEMESTER (R09 REGULATION) 2012 ADMITTED BATCHES REGULAR EXAMINATIONS, DEC – 2013

AND

M.TECH II SEMESTER (R09 REGULATIONS) 2009 BATCHES ONWARDS SUPPLEMENTARY EXAMINATIONS, DEC - 2013

TIME TABLE

Time: 10:00AM to 01:00 PM

BRANCHES AND SPECIALIZATIONS	10-12-2013 Tuesday	12-12-2013 Thursday	14-12-2013 Saturday	16-12-2013 Monday	18-12-2013 Wednesday	20-12-2013 Friday	23-12-2013 Monday	26-12-2013 Thursday	28-12-2013 Saturday	30-12-2013 Monday
CIVIL STRUCTURAL ENGINEERING (87)	Finite Element method in Structural Engineering (D8701)	Computer Applications and CAD (D8701)	Stability of Structures (D8703)	Structural Dynamics and Earthquake Resistant Design (D8704)	Elective-I 1.Pre-Stress concrete(D8705) 2. Composite Materials(D8706) 3.Fracture Mechanics (D8707)	Elective-II 1.Special topics in structural design(D8708) 2. Principle of Bridge Engineering (D8709)	Principles of foundation Design (D8710)	----	----	----
CIVIL TRANSPORTATION ENGINEERING (22)	Aviation Infrastructure Planning (D2201)	Project Engineering (D2202)	Pavement Management System (D2203)	Urban Transport Planning (D2204)	GIS for Transportation Engineering (D2205)	<u>Elective: I</u> 1.Design and Management of Rural Roads(D2206) 2.Rail Road Engineering(D2207) 3.Geometric Design of Transportation facilities(D2208)	----	----	----	----

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CIVIL GEO INFORMATICS (74)	Advanced GIS	GIS Project Planning and Management	Applications of Geo-informatics	Internet GIS	Elective-III 1.Advanced RS 2.Spatial Decision Support System 3Digital Photogrammetry	----	----	----	----	----
CIVIL SOIL MECHANICS & FOUNDATION ENGINEERING (19)	Foundation Engg-II	Design with Geosynthetics	Soil Dynamics & Machine Foundation	Numerical Methods in Geotechnical Engineering	Elective-III 1Pavement Analysis, Design and Evaluation 2Analytical Methods in Geotechnical Engineering	Elective-IV 1Geo-Environmental Engg, 2Geotechnical Earth Quake Engineering 3Finite Element Method	Principles of Foundation Design	----	----	----
MECHANICAL CAD/CAM (04)	Advanced Optimization Techniques (D0401)	Computer Graphics (D0402)	Robotics (D0403)	CNC Technology & programming (D0404)	<u>Elective II</u> 1.Advanced Geometrical Modeling (D0409) <u>Elective I</u> 2.Product Engineering (D0406) 3.Cellular Manufacturing Systems (D0407) 4.Rapid Prototyping (D0408)	<u>Elective II</u> 2.Artificial Intelligence & Expert Systems (D0410) 3.Mechanics and Manufacturing methods of Composites (D0411) 4.Concurrent Engineering (D04012)	<u>Elective I</u> 1.Mechanics of Metal Cutting and Tool Design (D0405)	----	----	----

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MECHANICAL MACHINE DESIGN (15)	Advanced Optimization Techniques (D0401)	Mechanical Vibrations (D1501)	Robotics (D0403)	Experimental Stress Analysis (D1502)	<u>Elective I</u> 1.Advanced Geometric Modeling (D0409) 2.Product Engineering (D0406) 4.Theory of Plasticity (D1505)	<u>Elective II</u> 1.Pressure Vessel Design (D1506) 2.Nano Technology (D1507) 3.Mechatronics (D1508) 4.Mechanics of Composite Materials (D1509)	3.Computational Fluid Dynamics (D1504)	----	----	----
MECHANICAL THERMAL ENGINEERING (21)	Fuels, Combustion & Environment	Energy Management	Finite Element Analysis	----	<u>Elective I</u> 1.Equipment Design for Thermal systems 2.Convective Heat Transfer (3.Thermal & Nuclear Power Plant	<u>Elective II</u> 1.Thermal Measurement and process controls 2.Refrigeration & Air Conditioning 3.Jet Propulsion & Rocketry	Computational Fluid Dynamics	----	----	----
MECHANICAL ADVANCED MANUFACTURING SYSTEMS (17)	Product Data Management	Intelligent Manufacturing Systems	1.Finite Element Analysis	Special Manufacturing Processes	Elective-III 1Industrial Robotics 2Production Operations Management 3Advanced Metal Forming	Elective-IV 2Materials Technology 3Advanced Welding Technology	Simulation Modeling of Manufacturing Systems	----	----	----

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MECHANICAL NANO TECHNOLOGY (96)	Material characterization techniques (D9621)	Properties of nano structures (D9622)	Nano Electronics And Nano Photonics (D9623)	Carbon nanotubes and applications (D9624)	Nano composites- Design and synthesis (D9625)	Elective-II 1. MEMS/NEMS design and application (D9626) 2. Lithography techniques (D9627)	----	----	----	----
MECHANICAL AEROSPACE ENGINEERING (41)	Aircraft Control and Simulation	Space Transportation Systems	Computational Approaches to Aerospace Vehicle Design	Aerospace Sensors and Measurement Systems	Elective-III 1 Aero-Thermodynamics of Hypersonic Flight 2 Dynamics and control of Structures 3 Missile Guidance 4 Advanced Topics in Air Traffic Management Systems 5 Spacecraft Dynamics and Control	Elective-IV 1 Rocket and Spacecraft Propulsion 2 Mechanics of Composite Materials 3 Tactical Missile Design 4 High Angle of Attack Aerodynamics 5 Optimal Control	----	----	----	----
CSE NEURAL NETWORK (69)	Data Warehousing and Mining (D5809)	Information Security, Management & Standards (D6901)	Machine Learning (D4003)	Digital Image processing (D6902)	<u>Electives</u> 1. Mobile Computing (D5805) 4. Ad hoc and Sensor Networks (D4006) 3. Speech Processing (D6903)	<u>Electives</u> 3. Fault Tolerant Systems (D6904) 4. Pattern Recognition (D6905)	----	Elective Computational Geometry (D4005)	Elective : Multimedia and Application Development (D4011)	E-2 Bio-Informatics (D5806)

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CSE SOFTWARE ENGINEERING (25)	Data Warehousing and Data Mining (D5809)	Information Security (D4009)	Software process and Project Management (D2501)	Secure Software Engineering (D2502)	<u>Electives</u> 1.Adhoc and Sensor Networks (E4) (D4006) 2.Software Architecture Design pattern (D2504) 4.Software Architecture and process Management (D2505)	<u>Electives</u> 1.Information Storage and Management (D2503) (E) 4.Middleware and Enterprise Integration Technologies (D5811)	----	<u>Elective</u> 3.Human computer Interaction (D5808)	<u>Elective</u> Multimedia and application Development (D4011)	Bio-Informatics (D5806)
CSE COMPUTER NETWORKS AND INFORMATION SECURITY (84)	Wireless Networks and Security (D8401)	<u>Elective II</u> 4.Information Security, Management and Standards (D8411)	Information Security protecting the Perimeter (D8403)	Service Oriented Architecture with Cloud Computing (D8404)	<u>Elective I</u> 2.Web Services (D8406) 4. Adhoc and Sensor Networks (D4006) <u>Elective II</u> 3.Mobile Computing (D8410)	<u>Elective II</u> 1.Network Management and Performance Evaluation (D8408) 2.Information Retrieval System (D8409) <u>Elective I</u> 3.Secured Database Application Development (D5810)	Linux Networking and System Administrator (D8402)	1.Distributed Systems (D8405)	----	----
CSE COMPUTER NETWORKS (88)	Optical Networks (C8814)	Stochastic Models And Applications (C8812)	Client-Server Programming (C8813)	System Modeling And Simulation (C8811)	Switching & Statistical Multiplexing In Telecommunications (C8815)	----	----	Distributed Systems (C8816)	----	----

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CSE COMPUTER SCIENCE & ENGINEERING/ COMPUTER SCIENCE/COMPUTER SCIENCE TECHNOLOGY (58,05,59)	Data Warehousing and Data Mining (D5809)	<u>Elective.</u> Artificial Intelligence and Soft Computing (D5801)	Object Oriented Software Engineering (D5803)	<u>Elective I.</u> Compiler Design (D5804)	<u>Electives</u> 1.Mobile Computing (D5805)	<u>Electives</u> 2.Secured Database Applications Development (D5810) 3.Middleware and Enterprise Integration Technologies (D5811) 4.Image Processing and pattern recognition (D5812)	Computer Networks (D5802)	<u>Elective</u> 4.Human Computer Interaction (D5808)	Web Technologies (D5807)	Bio-Informatics (D5806)
CSE INFORMATION TECHNOLOGY (40)	Advances in Computing (D4001)	<u>Elective.</u> Information Security (D4009)	Machine Learning (D4003)	Advanced Computer Networks (D4004)	<u>Electives</u> 2.Ad hoc and Sensor Networks (D4006) 4.Soft Computing (D4007)	<u>Electives</u> 1.Distributed Computing (D4008) 3.Information Retrieval (D4010)	Parallel Computing & Algorithms (D4002)	<u>Elective</u> Computational Geometry (D4005)	<u>Elective</u> Multimedia and Application Development (D4011)	Bio-Informatics (D5806)
ECE DIGITAL ELECTRONICS & COMMUNICATION SYSTEMS (38)	Wireless Communication & Networks (D3801)	Low Power VLSI Design (D5505)	DSP Processors & Architecture (D3803)	<u>Electives</u> 2.System Modeling Simulation (D3806)	Optical Communication (D3804)	<u>Electives</u> 1.Internet Protocols (D3807) 2.Network Security and Cryptography (D3808)	Analog & Digital IC Design (D3802)	<u>Elective</u> Radar Signal Processing (D3805)	----	----

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ECE DIGITAL IMAGE PROCESSING (63)	<u>Elective:</u> Wireless Communication & Networks (D3801)	<u>Elective:</u> 2.Micro Computer System Design (D0602)	<u>Elective</u> DSP Processors & Architecture (D3803)	<u>Electives</u> 1.Statistical Signal Processing (D6302) 2.System Modeling & Simulation (D3806)	<u>Elective</u> Optical Communication (D3804)	Image Processing and Pattern Recognition (D5812)	Detection and Estimation of Signals (D6301)	Radar Signal Processing (D3805)	Image and Video Processing (D7002)	----
ECE DIGITAL SYSTEMS & COMPUTER ELECTRONICS (06)	Wireless Communication & Networks (D3801)	<u>Elective:</u> 1.Micro computer system Design (D0602)	DSP Processors & Architecture (D3803)	<u>Electives</u> 2.System Modeling & Simulation (D3806)	Design of Fault Tolerant Systems (D0601)	<u>Electives</u> 1.Internet Protocols (D3807) 2.High Speed Networks (D0603)	Analog & Digital IC Design (D3802)	----	----	----
ECE ELECTRONICS & COMMUNICATION (70)	Wireless Communication & Networks (D3801)	----	DSP Processors & Architecture (D3803)	<u>Electives</u> 2.RF Circuit Design (D7001)	Optical Communication (D3804)	<u>Electives</u> 2.Internet Protocols (D3807)	Analog & Digital IC Design (D3802)	<u>Elective</u> Radar Signal Processing (D3805)	2.Image and Video Processing (D7002)	----
ECE SYSTEMS & SIGNAL PROCESSING (45)	Wireless Communication & Networks (D3801)	----	DSP Processors & Architecture (D3803)	<u>Electives</u> 2.RF Circuit Design (D7001)	Design of Fault Tolerant Systems (D0601)	<u>Electives</u> 1.Internet Protocols (D3807) 2.Network Security and Cryptography (D3808)	Analog & Digital IC Design (D3802)	<u>Elective.</u> Radar Signal Processing (D3805)	----	----

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ECE EMBEDDED SYSTEMS (55)	Algorithms for VLSI Design Automation (D5501)	<u>Elective</u> Low Power VLSI Design (D5505)	DSP Processor & Architecture (D3803)	<u>Elective:</u> 1.System Modeling & Simulation (D3806)	<u>Elective</u> 2. Design of Fault Tolerant Systems (D0601)	Real Time Operating Systems for Embedded Systems (D5502)	<u>Electives</u> 2.CPLD and FPGA Architecture and Applications (D5506)	Advanced Microcontrollers and Processors (D5504)	----	----
ECE VLSI D & VLSID/VLSI (72)/(57)	Algorithms for VLSI Design Automation (D5501)	Low Power VLSI Design (D5505)	DSP Processor & Architecture (D3803)	<u>Electives</u> 2.System Modeling & simulation (D3806)	<u>Design</u> of Fault Tolerant Systems (D0601)	<u>Elective</u> 1.Embedded and Real time Systems (D6801)	<u>Electives</u> 1.CPLD and FPGA Architecture and Applications (D5506)	<u>Elective.</u> Advanced Microcontrollers and Processors (D5504)	----	----
ECE VLSI & EMBEDDED SYSTEMS /ES & VLSI DESIGN (68)/(81)	Algorithms for VLSI Design Automation (D5501)	Low Power VLSI Design (D5505)	DSP Processor & Architecture (D3803)	<u>Elective:</u> 2.System Modeling & Simulation (D3806)	<u>Elective</u> 1.Design of Fault Tolerant Systems (D0601)	Embedded and Real time Systems (D6801)	<u>Electives</u> 1. CPLD and FPGA Architecture and Applications (D5506)	<u>Elective.</u> Advanced Microcontrollers and Processor (D5504)	----	----
ECE MICROWAVE & COMMUNICATION ENGINEERING (82)	Wireless Communication & Networks (D3801)	Solid State Microwave Devices & Circuits (D8201)	Microwave Networks and Measurements (D8202)	EMI/ EMC (D8203)	<u>Elective I</u> 1.Microstrip Components & Micro strip Antennas (D8204) 2.Software Radio (D8205)	<u>Elective II</u> 1.Transform Techniques (D8206) 2.Selected Topics in antennas (D8207)	----	----	----	----

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ECE COMMUNICATION ENGG. & SIGNAL PROCESSING/ COMMUNICATION SYSTEMS (46/47)	Wireless Communications and Networks	Coding Theory and Practice	Optical Communications Technology	Adaptive Signal Processing	Elective-III 1Optical Networks 2Mobile Computing Technologies 3Ad-hoc and Wireless Sensor Networks	Elective-IV 1Network Security And Cryptography 2Wireless LANs and PANs 3TCP/IP And ATM Networks	----	----	----	----
ECE COMMUNICATION AND SIGNAL PROCESSING (C&SP) (80)	Wireless Communications & Networks (D8011)	Fiber Optical Communication System (D8012)	Dsp Processors And Architecture (D3803)	Advanced Digital Signal Processing (D8013)	----	(Elective-IV) 1.Embedded System Concepts (D8015) 2.Image Processing (D8016)	(Elective-III) 1.Computer Networks (D5802) 2.Neural Networks And Applications (D8014)	----	----	----
EEE POWER ELECTRONICS (43)	Switched Mode Power conversion (D4301)	Power Electronics Control of AC Drives (D4302)	Flexible AC Transmission Systems (D4303)	Digital Signal Processing and Applications (D4304)	Electives 1.Digital control Systems (D4305) 2.Intelligent Control (D4306)	Electives 1.Power Quality Management (D4307) 2.Energy Auditing Conservation and Management (D4308)	----	----	----	----

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EEE POWER ELECTRONICS AND DRIVES (52)	Switched Mode Power conversion (D4301)	Power Electronics Control of AC Drives (D4302)	Flexible AC Transmission Systems (D4303)	Digital Signal Processing and Applications (D4304)	<u>Electives</u> 1.Digital control Systems (D4305) 2.Intelligent Control (D4306)	<u>Electives</u> 1.Power Quality Management (D4307) 2.Energy Auditing Conservation and Management (D4308)	----	----	----	----
EEE POWER ELECTRONICS & ELECTRIC DRIVES (54)	Switched Mode Power Conversion (D4301)	Power Electronics Control of AC Drives (D4302)	Flexible AC Transmission Systems (D4303)	Digital Signal Processing and Applications (D4304)	<u>Electives</u> 1.Digital Control Systems (D4305) 2.Intelligent Control (D4306)	<u>Electives</u> 1.Power Quality Management (D4307) 2.Energy Auditing, Conservation and Management (D4308)	----	----	----	----
EEE POWER & INDUSTRIAL DRIVES (42)	Switched Mode Power conversion (D4301)	Power Electronics Control of AC Drives (D4302)	Flexible AC Transmission Systems (D4303)	Digital Signal Processing and Applications (D4304)	<u>Electives</u> 1.Digital control Systems (D4305) 2.Intelligent Control (D4306)	<u>Electives</u> 1.Power Quality Management (D4307) 2.Energy Auditing Conservation and Management (D4308)	----	----	----	----
EEE ELECTRICAL & POWER ENGINEERING (60)	Neural and Fuzzy Systems	Advanced Power System Protection	Power Quality	FACTS	Elective-III 1Advanced Digital Signal Processing 2Distribution Automation 3Digital Control Systems	Elective-IV 1 Enterprise Resource Planning 2Power System Operation and Control 3Reliability Engineering	----	----	----	----

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EEE POWER SYSTEM WITH EMPHASIS ON HV ENGINEERING (56)	High Voltage Testing Technology (D5601)	EHV and HVAC Transmission (D5602)	Surge Phenomenon & Insulation Coordination (D5603)	Advanced Power System Protection (D5604)	<u>Electives</u> 1.Partial Discharge in HV Equipment (D5605) 2.PLC Controllers and its Applications (D5606) 3.Power Systems Transients (D5607)	<u>Electives</u> 1.Collision Phenomena (D5608) 2.Pulse Power Engineering (D5609) 3.Advance EM Fields (D5610)	----	----	----	----
EEE POWER ELECTRONICS AND POWER SYSTEMS (99)	Switched Mode Power conversion (D4301)	Power Electronics Control of AC Drives (D4302)	Elective-IV 1. Real Time control of Power System (D5303)	Advanced Power System Protection (D5604)	<u>ElectivesIII</u> 1.Digital control Systems (D4305) 2. PLC Controllers and its Applications (D5606)	Elective-IV 2.Power System Deregulation (D5306) 3.Demandside Energy Management (D5307)	FACTS Controllers (D5302)	----	----	----
EEE POWER SYSTEM CONTROL & AUTOMATION / POWER SYSTEMS (53)	Power System Dynamics and Stability (D5301)	----	Real Time control of Power System (D5303)	Advanced Power System Protection (D5604)	<u>Electives</u> 1.Digital Control Systems (D4305) 2.Power System Reliability (D5304) 3.PLC Controllers and its Applications (D5606)	<u>Electives</u> 1.Voltage Stability (D5305) 2.Power System Deregulation (D5306) 3.Demandside Energy Management (D5307)	FACTS Controllers (D5302)	----	----	----

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EEE ELECTRICAL MACHINES & DRIVES (44)	Switched Mode Power conversion (D4301)	Power Electronics Control of AC Drives (D4302)	Flexible AC Transmission Systems (D4303)	Digital Signal Processing and Applications (D4304)	<u>Electives III</u> 1.Digital Control Systems (D4305) 2.Intelligent Control (D4306)	<u>Electives IV</u> 1.Power Quality Management (D4307) 2.Energy Auditing, Conservation and Management (D4308)	----	----	----	----
EEE CONTROL SYSTEMS (95)	Robotics and Control (C9521)	Non-Linear Systems Analysis (C9522)	Advanced Digital Signal Processing (C9523)	Optimal Control Theory (C9524)	Elective-III 1. A I Techniques (C9525) 2. Embedded Real Time Operating System EMS (C9526)	Elective-IV 1. Renewable Energy Sources (C9527) 2. Power Quality Management (D4307)	----	----	----	----
BIO TECHNOLOGY (03)	Recombinant DNA Technology (F0301)	Bio separation Technology (F0302)	Bioinformatic s, Genomics & Proteomics (F0303)	Bioreactor design (F0304)	Stem cell Technology (F0305) Plant biotechnology (F0306)	Regulatory affairs and clinical trails (F0307) Cancer biology (F0308)	----	----	----	----

NOTE:

- i) ANY OMISSIONS OR CLASHES IN THIS TIME TABLE MAY PLEASE BE INFORMED TO THE CONTROLLER OF EXAMINATIONS IMMEDIATELY.
- ii) EVEN IF GOVERNMENT DECLARES HOLIDAY ON ANY OF THE ABOVE DATES, THE EXAMINATIONS SHALL BE CONDUCTED AS USUAL.
- iii) THE PRINCIPALS ARE REQUESTED TO INFORM THE UNIVERSITY ANY OTHER SPECIALIZATIONS SUBJECTS THAT ARE NOT INCLUDED IN THE ABOVE TIME TABLE IMMEDIATELY.

C. Steel

DATE: 20-11-2013

Controller of Examinations