

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
UNIVERSITY EXAMINATION CENTER, KAKINADA- 533003**

M.TECH II SEMESTER (R13) SUPPLEMENTARY EXAMINATIONS – JULY/AUG, 2019
(2015 ADMITTED BATCH ONLY)

TIME TABLE

TIME: 10:00 AM TO 01:00 PM

BRANCHES AND SPECIALIZATIONS	22.07.2019 (Monday)	24.07.2019 (Wednesday)	26.07.2019 (Friday)	29.07.2019 (Monday)	01.08.2019 (Thursday)	03.08.2019 (Saturday)	06.08.2019 (Tuesday)	08.08.2019 (Thursday)	13.08.2019 (Tuesday)	16.08.2019 (Friday)
CIVIL STRUCTURAL ENGINEERING/ STRUCTURAL DESIGN (87/85)	Earthquake Resistant Design (H8702)	Elective – IV Industrial Structures (H8708) Bridge Engineering (H8709) Earth Retaining Structures (H8710)	Stability of Structures (H8703)	Theory of Plates & Shells (H8704)	Elective – III Pre-stressed Concrete (H8705) Mechanics of Composite Materials (H8706) Fracture Mechanics (H8707)	Finite Element Method (H8701)	---	---	---	---
CIVIL TRANSPOTA TION ENGINEERING (22)	Transportatio n Economics & Project Appraisal (H2201)	Traffic Flow Analysis (H2202)	Land Use & Regional Transportati on Planning (H2203)	Transportation Systems Management (H2204)	Elective – III Pavement Construction & Evaluation (H2205) Environmental Impact Assessment (H2206)	Elective – IV Intelligent Transportation Systems (H2207) Ground Improvement Techniques (H2208)	---	---	---	---

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CIVIL GEO INFORMATICS (74)	Digital Image Processing (H3201)	Digital Photogrammetry (H7401)	Internet GIS (H3203)	Spatial Decision Support Systems (H7402)	Geodesy & GNSS (H3205)	Elective – IV Disaster Management (H3206) Data Warehousing & Data Mining (H3207) Advanced Surveying & Cartography (H3208) Remote Sensing and GIS Applications in Environment (H7403) Geo-Statistical Methods (H3210)	---	---	---	---
CIVIL SOIL MECHANICS & FOUNDATION ENGINEERING/ GEOTECHNICAL ENGINEERING (19 / 20)	Foundation Engineering – II (H1901)	Earth Retaining Structures (H8710)	Soil Dynamics & Machine Foundations (H1902)	Construction in Expansive Soils (H1903)	Elective – III Pavement Analysis, Design and Evaluation (H1904) Construction Planning & Methods (H1905) Geotechnical Earthquake Engineering (H1906)	Elective – IV Geo-Environmental Engineering (H1907) Numerical Methods in Geotechnical Engineering (H1908) Finite Element Methods (H8701)	---	---	---	---

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CIVIL HIGH WAY ENGINEERING (23)	Highway Project Formulation and Economics (H2301)	Pavement Construction, Maintenance and Management (H2302)	Pavement Analysis and Design (H2303)	Traffic Analysis (H2304)	Elective – III Road Safety Engineering (H2305) Land use and Transportation Modeling (H2306) Transportation System Management (H2307)	Elective – IV Environmental Impact Assessment for Transportation (H2308) GIS Applications in Transportation Engineering (H2309) Optimization Techniques (H2310)	---	---	---	---
CIVIL COMPUTER AIDED STRUCTURAL ENGINEERING (35)	Elective – III Analysis of Shells and Folded Plates (H3505) Reliability Based Engineering Design (H3506) Earthquake Resistant Structures (H3507)	Structural Dynamics (H3501)	Artificial Neural Networks (H3503)	CAD & Computer applications in Structural Engineering (H3504)	Elective – IV Management Information Systems (H3508) Fracture Mechanics (H3509) Advanced Concrete Technology (H3510)	Finite Element Analysis (H3502)	---	---	---	---

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N. Mohan Rao
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EEE Power Systems, Power System Control & Automation, Electrical Power Engineering, Power Systems Engineering, Power System & Control, Advanced Power Systems, Power Engineering & Energy Systems, Electrical Power Systems (56/53/60/ / / 50/65)	Elective – IV High Voltage Testing Techniques (H5610)	Real Time Control of Power Systems (H5603)	Elective – III Power System Reliability (H5607)	Advanced Power System Protection (H5604)	Elective – IV Power System Deregulation (H5609) Power System Transients (H5611) Demand Side Energy Management (H5612)	Elective – III Smart Grid (H5605) Power Quality (H5606)	Flexible AC Transmission Systems (H5602)	Elective – III Voltage Stability (H5608)	Power System Dynamics & Stability (H5601)	---
EEE Power Electronics, Power & Industrial Drives, Power Electronics & Electrical Drives, Power Electronics & Drives, Electrical Machines & Drives (43/42/54/52/44)	Switched Mode Power Conversion (H4301)	Custom Power Devices (H4304)	Digital Controllers (H4303)	Electric Drives – II (H4302)	Elective – III Renewable Energy System (H4305) Electrical Distribution Systems (H4307)	Elective – IV Smart Grid (H5605) Special Machines (H4308) Programmable Logic Controllers & Applications (H4309)	---	Elective – III Reactive Power Compensatio n & Management (H4306)	---	---

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<p>EEE</p> <p>Power Electronics & Power Systems (99)</p>	Switched Mode Power Conversion (H4301)	Custom Power Devices (H4304)	Elective – III Power System Reliability (H5607)	Advanced Power System Protection (H5604)	Elective – III Power System Deregulation (H5609)	Elective – IV Smart Grid (H5605) Programmable Logic Controllers & Applications (H4309) Energy Auditing, Conservation & Management (H9901)	Flexible AC Transmission Systems (H5602)	Elective – III Voltage Stability (H5608)	---	---
<p>EEE</p> <p>High Voltage Engineering, Power Systems with Emphasis on High Voltage Engineering (62/64)</p>	High Voltage Testing Techniques (H5610)	HVAC Transmission (H6201)	Surge Phenomenon & Insulation Coordination (H6202)	Advanced Power System Protection (H5604)	Elective – IV Power System Deregulation (H5609)	Elective – III Partial Discharge in HV Equipment (H6203) High Voltage System Using EMTP Analysis (H6204) Pulse Power Engineering (H6205)	Elective – IV Flexible AC Transmission Systems (H5602)	Elective – IV Reactive Power Compensation & Management (H4306)	---	---

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EEE Control Systems, Control Engineering (95)	Robotics & Control (H9501)	Non-Linear Systems Analysis (H9502)	Digital Signal Processing (H9503)	Optimal Control Theory (H9504)	Elective – III AI Techniques (H9505) Embedded Real Time Operating System EMS (H9506)	Elective – IV Decision and Estimation Theory (H9507) Embedded Computer Control (H9508)	---	---	---	---

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MECHANICAL THERMAL ENGINEERING (21)	Fuels, Combustion & Environment (H2101)	Energy Management (H2102)	Finite Element Methods (H2103)	Computational Fluid Dynamics (H2104)	Elective – III Materials for Thermal Engineering (H2105) Convective Heat Transfer (H2106) Thermal & Nuclear Power Plants (H2107) Advanced Automobile Engineering (H2108)	Elective – IV Thermal Measurements and Process Controls (H2109) Cryogenic Engineering (H2110) JET Propulsion and Rocketry (H2111) Equipment Design for Thermal Systems (H2112)	---	----	---	----

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MECHANICAL THERMAL SCIENCES AND ENERGY SYSTEMS (18)	Solar Thermal and Photovoltaic Systems (H1801)	Hydrogen and Fuel Cells (H1802)	Biomass, Wind and Ocean Energy (H1803)	Energy Audit and Conservation (H1804)	Elective – III Energy Systems Modelling and Analysis (H1805) Energy Economics and Planning (H1806) Advanced Optimization Techniques (H1807)	Elective – IV Instrumentation & Controls for Energy Systems (H1808) Waste Heat Recovery Systems (H1809) Green Energy Technologies (H1810)	---	---	---	---
MECHANICAL MACHINE DESIGN/MECHANICAL ENGINEERING DESIGN (15/14)	Experimental Stress Analysis (H1502)	---	Finite Element Method (H2103)	Elective – III Tribology (H1507) Signal Analysis & Condition Monitoring (H1508) Computational Fluid Dynamics (H2104) Design Synthesis (H1509)	Elective – II Fracture Mechanics (H1503) Gear Engineering (H1504) Design for Manufacturing (H1505) Continuum Mechanics (H1506)	Elective – IV Pressure Vessel Design (H1510) Mechanics of Composite Materials (H1511) Mechatronics (H1512) Theory of Plasticity (H1513)	Optimization and Reliability (H1501)	---	---	---

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MECHANICAL CAD/CAM (04)	Simulation Modeling of Manufacturing Systems (H0401)	Elective – IV Mechanics & Manufacturing Methods of Composites (H0405) Intelligent Manufacturing Systems (H0408)	Finite Element Method (H2103)	Computer Graphics (H0402)	Elective – III Fracture Mechanics (H1503) Concurrent Engineering (H0404)	Elective – IV Materials Technology (H0407)	Optimization and Reliability (H1501)	---	Elective – III Quality Engineering in Manufacturing (H0403)	---
MECHANICAL ADVANCED MANUFACTURING SYSTEMS (17)	Simulation Modeling of Manufacturing Systems (H0401)	Intelligent Manufacturing Systems (H0408)	Elective – III Finite Element Method (H2103) Design and Manufacturing of MEMS & Microsystems (H1702)	Elective – IV Computational Fluid Dynamics (H2104)	Elective – III Concurrent Engineering (H0404)	Elective – IV Materials Technology (H0407)	Elective – IV Optimization & Reliability (H1705)	Production & Operations Management (H1701)	Quality Engineering in Manufacturing (H0403)	---


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MECHANICAL Advanced Manufacturing and mechanical system design (13)	Simulation Modeling of Manufacturing Systems (H0401)	Intelligent Manufacturing Systems (H0408)	Elective – III Finite Element Methods (H2103) Design and Manufacturing of MEMS and Microsystems (H1702)	Precision Engineering (H1301)	Elective – III Concurrent Engineering (H0404)	Elective – IV Product Data Management (H1302) Materials Technology (H0407) Flexible Manufacturing Systems (H1303)	---	Production and Operations Management (H1701)	---	---
MECHANICAL AEROSPACE ENGINEERING (41)	Aircraft Control & Simulation (H4101)	Space Transportation Systems (H4102)	Computational Approaches to Aerospace Vehicle Design (H4103)	Aerospace Sensors & Measurement Systems (H4104)	Elective – III Aero-thermodynamics of Hypersonic Flight (H4105) Dynamics & Control of Structures (H4106) Missile Guidance (H4107) Advanced Topics in Air Traffic Management systems (H4108) Spacecraft Dynamics & Control (H4109)	Elective – IV Rocket & Spacecraft Propulsion (H4110) Mechanics of Composite Materials (H4111) Tactical Missile Design (H4112) High Angle of Attack Aerodynamics (H4113) Optimal Control (H4114)	---	---	---	---

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MECHANICAL Petroleum Engineering (08)	Advanced Natural Gas Engineering (H0801)	Artificial Lift Techniques (H0802)	Operational Aspects of Well Testing (H0803)	Integrated Reservoir Management (H0804)	Elective – I Practical Reservoir Modeling & Simulation (H0805) Optimization of Oil & Gas Production H0806 Flow Assurance (H0807)	Elective – II Process Safety & Environmental Aspects in Petroleum Industry (H0808) Deep Water Technologies (H0809) Characterization of Petroleum Oils (H0810)	---	---	---	---

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CSE SOFTWARE ENGINEERING (25)	Software Architecture & Design Patterns (H2501)	Software Quality Assurance & Testing (H2502)	Service Oriented Architectures (H2503)	Elective – III Multimedia & Application Development (H2510) Natural Language Processing (H2511)	Elective – I Secure Software Engineering (H2504) Systems Engineering (H2505) ERP & Supply Chain Management (H2506)	Elective-II User Interface Design (H2507) Cloud Computing (H2508) Social Networking and Semantic Web (H2509)	Elective – III Soft Computing (H2512)	---	---	---
CSE INFORMATION TECHNOLOGY (40)	Advanced UNIX Programming (H4001)	---	---	Elective – I ADHOC & Sensor Networks (H4003) Semantic Webservices (H4004) UML & Design Patterns (H4005)	Elective – II Information Retrieval System (H4007) Animation & Gaming (H4008)	Elective – III Cloud Computing (H2508) Image Processing & Pattern Recognition (H4009) Information Storage Management (H4010)	Soft Computing (H2512)	Information Security (H4002)	Elective – II Machine Learning (H4006)	---

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CSE COMPUTER SCIENCE (05)	Design & Analysis of Algorithms (H0502)	Data Warehousing & Data Mining (H0501)	Elective – III Image Processing (H0508) Web Technologies (H0509)	Elective – II Human Computer Interaction (H0507)	Elective – II Systems Engineering (H2505) Business Intelligence (H0506)	Software Engineering (H0503)	Elective – I Soft Computing (H2512)	Elective – III Information Security (H4002)	Elective – I Automata Theory & Compiler Design (H0504) Advanced Computer Architecture (H0505)	---
CSE COMPUTER SCIENCE & TECNOLOGY (59)	Advanced Unix Programming (H4001)	Computer System Engineering (H5902)	Advanced Computer Algorithms (H5901)	Elective – I Middleware Technologies (H5903) Health Informatics (H5904)	Elective – II Information Retrieval Systems (H4007) VOIP (H5905)	Elective – III Pattern Recognition & Image Processing (H5906) Cloud Computing (H2508)	Elective – I Soft Computing (H2512)	Elective – II Information Security (H4002)	Elective – III Machine Learning (H4006)	---

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CSE COMPUTER SCIENCE & ENGINEERING (58)	Elective-III Advanced UNIX Programming (H4001)	Data Warehousing & Data Mining (H0501)	Elective-II Image Processing (H0508) Object Oriented Analysis and Design (H5804)	Elective – I Mobile Computing (H5802) Compiler Design (H5803) Human Computer Interaction (H0507)	Computer Networks (H5801)	Elective-III BIO Informatics (H5805) Elective-III Cloud Computing (H2508)	Elective-II Soft Computing H2512	Information Security (H4002)	---	---
CSE COMPUTER NETWORKS (88) COMPUTER NETWORKS AND INFORMATION SECURITY (84)	Advanced Computer Communications (H8401)	VANETS (H8801)	TCP/IP (H8403)	Elective – I 3G Wireless Networks (H8409) Hacking Techniques (H8408) Cyber Laws & IT Practices (H8406)	Elective – III MANETS (H8407) Wireless Network & Security (H8404) VOIP (H5905)	Elective – II Network Management Concepts & Practices (H8410) ISDN & Broadband ISDN (H8802) Firewalls & VPNs (H8411)	---	---	---	---

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ECE VLSI & ES, ES & VLSI, VLSID & ES, ES & VLSID (68/48/77/81)	Elective – IV Low Power VLSI Design (H6809)	CMOS Mixed Signal Circuit Design (H6802)	Elective – III VLSI Signal Processing (H6807)	Design for Testability (H6804)	Elective – III System on Chip Design (H6806)	Elective – IV Micro Electro Mechanical Systems(MEMS) Design (H6808) Semiconductor Memory Design & Testing (H6810)	Elective – III Digital Signal Processors & Architectures (H6805)	Embedded Real Time Operating Systems (H6803)	Embedded – C (H6801)	---
ECE VLSI/VLSI DESIGN/VLSI SYSTEM DESIGN/VLSI & MICRO ELECTONICS (57/72/61/76)	Low Power VLSI Design (H6809)	CMOS Mixed Signal Circuit Design (H6802)	Elective – III Scripting Language (H5702) VLSI Signal Processing (H6807)	Design for Testability (H6804)	Elective – IV System on Chip Design (H6806)	Elective – IV Optimization Techniques in VLSI Design (H5703) Semiconductor Memory Design & Testing (H6810)	Elective – III Digital Signal Processors & Architectures (H6805)	CAD for VLSI (H5701)	---	---

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ECE SSP, DIP, CE & SP, IP, C&SP/SP&C (45/63/46/80/36)	Adaptive Signal Processing (H4501)	Wireless Communicati on & Networks (H4503)	Image & Video Processing (H4502)	---	Elective – III RF Circuit Design (H4505) Speech Processing (H4506) Bio-Medical Signal Processing (H4507)	Elective – IV Internet Protocols (H4508) Radar Signal Processing (H4509) Detection & Estimation Theory (H4510)	DSP Processors & Architectures (H6805)	---	---	---
ECE MICROWAVE & COMMUNICAT ION ENGINEERING (82)	Phased Array Systems (H8202)	Wireless Communicati on & Networks (H4503)	Microwave Solid State Devices (H8203)	---	Software Defined Radio (H8201)	Elective – III Microwave Networks (H8204) Elective – III EMI/EMC (H8205)	Elective – IV Optical Communicati on Technology (H8207) Smart Antennas (H8208) Statistical Signal Processing (H8209)	Elective – III Radio & Navigational Aids (H8206)	---	---

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<p>ECE</p> <p>EMBEDDED SYSTEMS (55)</p>	Hardware Software Co-Design (H5501)	---	Embedded Networking (H5502)	CPLD & FPGA Architectures & Applications (H5503)	<p>Elective – IV</p> <p>System on Chip Design (H6806)</p> <p>Wireless LANs & PANs (H5506)</p> <p>Multimedia & Signal Coding (H5507)</p>	<p>Elective – III</p> <p>Sensors & Actuators (H5504)</p> <p>Micro Electro Mechanical System Design (H5505)</p> <p>Internet Protocols (H4508)</p>	Digital Signal Processors & Architectures (H6805)	---	---	---
<p>ECE</p> <p>DIGITAL SYSTEMS & COMPUTER ELECTRONICS (06)</p>	Digital Data Communications (H0601)	---	Design of Fault Tolerant Systems (H0603)	CMOS Analog & Digital IC Design (H0602)	<p>Elective – III</p> <p>System on Clip Design (H6806)</p> <p>Soft Computing Techniques (H0604)</p>	<p>Elective – IV</p> <p>Internet Protocols (H4508)</p> <p>High Speed Network (H0605)</p>	DSP Processors & Architectures (H6805)	---	---	---

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ECE DECS, E&CE, DECE (38/70/37)	Coding Theory & Applications (H3801)	Wireless Communication & Networks (H4503)	Image & Video Processing (H4502)	Elective – III CMOS Analog & Digital IC Design (H0602)	Elective – III Advanced Computer Architecture (H3802)	Elective – IV EMI/EMC (H8205)	Elective – IV DSP Processors & Architecture (H6805)	Embedded Real Time Operating Systems (H6803)	---	---
ECE COMMUNICATION SYSTEMS (47)	Coding Theory & Applications (H3801)	Wireless Communication & Networks (H4503)	Image & Video Processing (H4502)	System Modeling & Simulation (H4701)	Elective – III Software Defined Radio (H8201) Soft Computing Techniques (H0604)	Elective – III Internet Protocols (H4508)	Elective – IV DSP Processors & Architectures (H6805)	Elective – IV Optical Networks (H4702) Radio & Navigational Aids (H8206)	---	---

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- 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.

Date: 02.07.2019

N. Mohan Rao
Controller of Examinations