



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
UNIVERSITY EXAMINATION CENTER, KAKINADA

M.TECH I SEMESTER (R16) SUPPLEMENTARY EXAMINATIONS, NOVEMBER - 2020

(2018, 2017 & 2016 ADMITTED BATCHES)

TIME TABLE

TIME: 10:00 AM TO 01:00 PM

BRANCHES AND SPECIALIZATIONS	09-11-2020 (Monday)	11-11-2020 (Wednesday)	13-11-2020 (Friday)	17-11-2020 (Tuesday)	19-11-2020 (Thursday)	21-11-2020 (Saturday)	24-11-2020 (Tuesday)	26-11-2020 (Thursday)	28-11-2020 (Saturday)	30-11-2020 (Monday)
CIVIL Structural Engineering/ Structural Design (87/85)	Earthquake Resistant Design (J8702)	Elective – IV Industrial Structures (J8708), Bridge Engineering (J8709),	Stability of Structures (J8703)	Theory of Plates & Shells (J8704)	Elective – III Pre-stressed Concrete (J8705), Mechanics of Composite Materials, (J8706) Fracture Mechanics (J8707)	Finite Element Method (J8701)	---	Elective – IV Earth Retaining Structures (J8710)	---	---
CIVIL Transportation Engineering (22)	Transportation Economics & Project Appraisal (J2201)	Transportation Systems Management (J2204)	Land Use & Regional Transportation Planning (J2203)	Traffic Flow Analysis (J2202)	Elective – III Pavement Construction & Evaluation (J2205) Environmental Impact Assessment (J2206)	Elective – IV Intelligent Transportation Systems (J2207) Ground Improvement Techniques (J2208)	---	---	---	---

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CIVIL Geo Informatics (74)	Digital Image Processing (J7402)	Digital Photogrammetry (J7401)	Internet GIS (J7403)	Geodesy & GNSS (J7404)	Spatial Decision Support Systems (J7405)	Elective – III Disaster Management (J7406) Data Warehousing & Data Mining (J7407) Advanced Surveying & Cartography (J7408) Remote Sensing and GIS Applications in Environment (J7409) Geo-Statistical Methods (J7410)	---	---	---	---
CIVIL Soil Mechanics & Foundation Engineering/ Geotechnical Engineering (19 / 20)	Elective – III Pavement Analysis, Design and Evaluation (J1904)	---	Soil Dynamics & Machine Foundations (J1902)	Construction in Expansive Soils (J1903)	Elective – III Construction Planning & Methods (J1905) Geotechnical Earthquake Engineering (J1906)	Elective – IV Geo-Environmental Engineering (J1907) Numerical Methods in Geotechnical Engineering (J1908) Finite Element Method (J8701)	Foundation Engineering – II (J1901)	Earth Retaining Structures (J8710)	---	----

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CIVIL High Way Engineering (23)	Highway Project Formulation and Economics (J2301)	Pavement Construction, Maintenance and Management (J2302)	Pavement Analysis and Design (J2303)	Traffic Analysis (J2304)	Elective – III Road Safety Engineering (J2305) Land use and Transportation Modeling (J2306) Transportation System Management (J2307)	Elective – IV Environmental Impact Assessment for Transportation (J2308) GIS Applications in Transportation Engineering (J2309) Optimization Techniques (J2310)	---	---	---	---
CIVIL Computer Aided Structural Engineering (35)	Elective – III Analysis of Shells and Folded Plates (J3504) Reliability Based Engineering Design (J3505) Earthquake Resistant Structures (J8702)	Structural Dynamics (J3501)	Artificial Neural Networks (J3502)	CAD & Computer applications in Structural Engineering (J3503)	Elective – IV Management Information Systems (J3506) Fracture Mechanics (J8707) Advanced Concrete Technology (J3508)	Finite Element Analysis (J8701)	---	---	---	---

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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 (J5610)	---	Elective – III Power System Reliability (J5607)	Advanced Power System Protection (J5604)	Elective – IV Power System Deregulation (J5609), Power System Transients (J5611) Demand Side Energy Management (J5612)	Elective – III Smart Grid Technologies (J5605) Power Quality (J5606)	Flexible AC Transmission Systems (J5602)	Elective – III Voltage Stability (J5608)	Power System Dynamics & Stability (J5601)	Real Time Control of Power Systems (J5603)
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 (J4301)	Custom Power Devices (J4304)	Digital Controllers (J4303)	Power Electronic Control of AC Drives (J4302)	Elective – III Renewable Energy System (J4305) Electrical Distribution Systems (J4307)	Elective – IV Smart Grid Technologies (J5605) Special Machines (J4308) Programmable Logic Controllers & Applications (J4309)	---	Elective – III Reactive Power Compensation & Management (J4306)	---	---

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EEE Power Electronics & Power Systems (99)	Switched Mode Power Conversion (J4301)	Custom Power Devices (J4304)	Elective – III Power System Reliability (J5607)	Advanced Power System Protection (J5604)	Elective – III Power System Deregulation (J5609)	Elective – IV Smart Grid Technologies (J5605), Programmable Logic Controllers & Applications (J4309), Energy Auditing, Conservation & Management (J9901)	Flexible AC Transmission Systems (J5602)	Elective–III Voltage Stability (J5608)	---	---
EEE High Voltage Engineering, Power Systems with Emphasis on High Voltage Engineering (62/64)	High Voltage Testing Techniques (J5610)	EHVAC Transmission (J6201)	Surge Phenomenon & Insulation Coordination (J6202)	Advanced Power System Protection (J5604)	Elective – IV Power System Deregulation (J5609)	Elective – III Partial Discharge in HV Equipment (J6203), High Voltage System Using EMTP Analysis (J6204), Pulse Power Engineering (J6205)	Elective – IV Flexible AC Transmission Systems (J5602)	Elective – IV Reactive Power Compensation & Management (J4306)	---	---
EEE Control Systems, Control Engineering (95)	Robotics & Control (J9501)	Non-Linear Systems Analysis (J9502)	Digital Signal Processing (J9503)	Optimal Control Theory (J9504)	Elective – III AI Techniques (J9505), Embedded Real Time Operating System EMS (J9506)	Elective – IV Decision and Estimation Theory (J9507), Embedded Computer Control (J9508)	---	---	---	---

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Robert A. Kelly

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MECHANICAL Thermal Engineering (21)	Fuels, Combustion & Environment (J2101)	Energy Management (J2102)	Finite Element Methods (J2103)	Computational Fluid Dynamics (J2104)	Elective – III Convective Heat Transfer (J2106) Thermal & Nuclear Power Plants (J2107) Advanced Automobile Engineering (J2108)	Elective – IV Thermal Measurements and Process Controls (J2109) Cryogenic Engineering (J2110) JET Propulsion and Rocketry (J2111) Equipment Design for Thermal Systems (J2112)	----	----	----	Elective – III Materials Technology (J2105)

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MECHANICAL Thermal Sciences And Energy Systems (18)	Solar Thermal and Photovoltaic Systems (J1801)	Hydrogen and Fuel Cells (J1802)	Biomass, Wind and Ocean Energy (J1803)	Energy Audit and Conservation (J1804)	Elective – III Energy Systems Modelling and Analysis (J1805) Energy Economics and Planning (J1806) Optimization Techniques & Applications (J1807)	Elective – IV Instrumentation & Controls (J1808) Waste Heat Recovery Systems (J1809) Green Energy Technologies (J1810)	---	---	---	---
MECHANICAL Machine Design/ Mechanical Engineering Design (15/14)	Experimental Stress Analysis (J1502)	Elective – IV Theory of Plasticity (J1510)	Finite Element Method (J2103)	Elective – III Computational Fluid Dynamics (J2104)	Elective – IV Mechatronics (J1509)	Elective – IV Pressure Vessel Design (J1507) Mechanics of Composite Materials (J1508)	Elective-III Signal Analysis & Condition Monitoring (J1505)	Optimization and Reliability (J1501)	Design with advanced Materials (J1503)	Elective – III Tribology (J1504) Design Synthesis (J1506)
MECHANICAL Computer Aided Analysis & Design (16)	Experimental Stress Analysis (J1502)	Elective – IV Theory of Plasticity (J1510)	----	Elective – III Computational Fluid Dynamics (J2104)	Elective – III Fracture Mechanics (J0404) Elective – III Mechatronics (J1509)	Mechanics of Composite Materials (J1508)	Signal Analysis & Condition Monitoring (J1505)	Optimization and Reliability (J1501)	----	Elective – IV Tribology (J1504) Design Synthesis (J1506)

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MECHANICAL CAD/CAM (04)	Modeling & Simulation of Manufacturing Systems (J0401)	Elective – IV Mechanics & Manufacturing Methods of Composites (J0406) Intelligent Manufacturing Systems (J0407)	Finite Element Method (J2103)	Computer Graphics (J0402)	Elective – III Fracture Mechanics (J0404) Concurrent Engineering (J0405)	---	---	Optimization and Reliability (J1501)	Elective-III .Quality Engineering in Manufacturing (J0403)	Elective – IV Materials Technology (J2105)
MECHANICAL Advanced Manufacturing Systems (17)	Modeling & Simulation of Manufacturing Systems (J0401)	Intelligent Manufacturing Systems (J0407)	Elective – III Finite Element Method (J2103)	Elective – IV Computational Fluid Dynamics (J2104)	Elective – III Concurrent Engineering (J0405) Design and Manufacturing of MEMS & Microsystems (J1701)	---	Elective – IV Production & Operations Management (J1702)	Optimization & Reliability (J1501)	Quality Engineering in Manufacturing (J0403)	Elective – IV Materials Technology (J2105)
MECHANICAL Computer Aided Design & Manufacturing (09)	Modeling & Simulation of Manufacturing Systems (J0401)	Elective – IV Mechanics & Manufacturing Methods of Composites (J0901) Intelligent Manufacturing Systems (J0407)	Finite Element Method (J2103)	Computer Graphics (J0402)	Elective – III Fracture Mechanics (J0404) Concurrent Engineering (J0405) Design and Manufacturing of MEMS & Microsystems (J1701)	---	Elective – IV Signal Analysis & Condition Monitoring (J1505)	Optimization and Reliability (J1501)	Elective-III .Quality Engineering in Manufacturing (J0403)	Elective – IV Materials Technology (J2105)

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MECHANICAL Advanced Manufacturing And Mechanical System Design (13)	Modeling & Simulation of Manufacturing Systems (J0401)	Intelligent Manufacturing Systems (J0407)	Elective – III Finite Element Methods (J2103) Control Systems (J1302)	Precision Engineering (J1301)	Elective – III Design and Manufacturing of MEMS and Microsystems (J1701)	Elective – IV Product Design (J1303) Flexible Manufacturing Systems (J1304)	Production and Operations Management (J1702)	-----	-----	Elective – IV Materials Technology (J2105)
MECHANICAL Petroleum Engineering (08)	Advanced Natural Gas Engineering (J0801)	Artificial Lift Techniques (J0802)	Operational Aspects of Well Testing (J0803)	Integrated Reservoir Management (J0804)	Elective –III Practical Reservoir Modeling & Simulation (J0805) Optimization of Oil & Gas Production (J0806) Flow Assurance (J0807)	Elective – IV Process Safety & Environmental Aspects in Petroleum Industry (J0808) Deep Water Technologies (J0809) Characterization of Petroleum Oils (J0810)	---	---	---	---

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CSE SOFTWARE ENGINEERING (25)	Software Architecture & Design Patterns (J2501)	Software Quality Assurance & Testing (J2502)	Service Oriented Architectures (J2504)	---	Elective – III Secure Software Engineering (J2505) Systems Engineering (J2506) ERP & Supply Chain Management (J2507) E-Commerce (J2508)	Elective-IV User Interface Design (J2509) Cloud Computing (J2510) Software Defined Networks (J2511)		Elective-IV Internet Of Things (J2512)	---	Cyber Security (J2503)
CSE INFORMATION TECHNOLOGY (40)	Advanced UNIX Programming (J4001)	---	Big Data Analytics (J4002)	Elective – III ADHOC & Sensor Networks (J4003) Semantic Web services (J4004) Principles Of Programming Languages (J4005)	Elective – IV Information Retrieval System (J4007) Image Processing & Pattern Recognition (J4008) Software Testing Methodologies (J4009)	Cloud Computing (J2510)		Elective – III Internet Of Things (J2512)	Elective- IV Machine Learning (J4006)	Cyber Security (J2503)

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CSE COMPUTER SCIENCE (05)	Advanced UNIX Programming (J4001)	Web Technologies (J0501)	Big Data Analytics (J4002)	Elective – III Compiler Design (J0504)	Elective – III Software Engineering (J0502) Artificial Intelligence (J0503)	Elective – IV Object Oriented Analysis And Design (J0505) Parallel Algorithms (J0506) Cloud Computing (J2510) Image Processing (J0507)		---	Elective – III Machine Learning (J4006)	Cyber Security (J2503)
CSE COMPUTER SCIENCE & TECNOLOGY (59)	Advanced UNIX Programming (J4001)	Python Programming (J5901)	Big Data Analytics (J4002)	Compiler Design (J0504)	Elective – III Advanced Graph Theory (J5902) Information Retrieval Systems (J4007) Advanced Computer Architecture (J8405)	Elective – IV Advanced Data Bases (J5904) Cloud Computing (J2510)	Elective – III Soft Computing (J5903)	Elective – IV Internet Of Things (J2512)	Elective – IV Machine Learning (J4006)	---

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CSE COMPUTER SCIENCE & ENGINEERING (58)	Advanced UNIX Programming (J4001)	Computer Networks (J5801)	Big Data Analytics (J4002)	Elective – III Compiler Design (J0504)	Elective–III Software Engineering (J0502) Artificial Intelligence (J0503)	Elective-IV Image Processing (J0507) Parallel Algorithms (J0506) Cloud Computing (J2510) Mobile Computing (J5802)		---	Elective–III Machine Learning (J4006)	Cyber Security (J2503)
CSE Computer Networks (88) Computer Networks And Information Security (84)	Advanced Computer Communications (J8401)	TCP/IP (J8402)	Big Data Analytics (J4002)	MANETS (J8403)	Elective – III Hacking Techniques (J8404) Artificial Intelligence (J0503) Advanced Computer Architecture (J8405)	Elective – IV VANETS (J8406) ISDN & Broadband ISDN (J8407) Firewalls & VPNs (J8408) Wireless Networks And Security (J8409)	---	Elective– III Internet Of Things (J2512)	---	---

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ECE VLSI & ES, ES & VLSI, VLSID & ES, ES & VLSID (68/48/77/81)	Elective – III Low Power VLSI Design (J6806)	CMOS Mixed Signal Circuit Design (J6802)	Elective – III VLSI Signal Processing (J6807)	Design for Testability (J6804)	---	Elective – IV CPLD and FPGA Architectures and Applications (J6809) Semiconductor Memory Design & Testing (J6810)	Elective – III Digital Signal Processors & Architectures (J6805)	Embedded Real Time Operating Systems (J6803)	Embedded System Design (J6801)	Elective – IV Micro Electro Mechanical Systems (MEMS) Design (J6808)
ECE VLSI/VLSI DESIGN/VLSI SYSTEM DESIGN/VLSI & MICRO ELECTONICS (57/72/61/76)	Low Power VLSI Design (J6806)	CMOS Mixed Signal Circuit Design (J6802)	Elective – III VLSI Signal Processing (J6807)	Design for Testability (J6804)	Elective – IV System on Chip Design (J5702)	Elective – IV Optimization Techniques in VLSI Design (J5703) Semiconductor Memory Design & Testing (J6810)	Elective – III Digital Signal Processors & Architectures (J6805)	Elective – III CAD for VLSI (J5701)	Embedded System Design (J6801)	---

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ECE SSP, DIP, CE& SP, IP, C&SP/SP&C (45/63/46/80/36)	Adaptive Signal Processing (J4501)	Elective – IV Wireless Communicati on & Networks (J4508)	Image & Video Processing (J4502)	Elective-III Computer Vision J4504	Elective – III Bio-Medical Signal Processing (J4505)	Elective – IV Radar Signal Processing (J4507)	DSP Processors & Architectures (J6805)	Detection & Estimation Theory (J4503)	Elective – III Embedded System Design (J6801)	Elective – IV Internet Protocols (J4506)
ECE Microwave & Communication Engineering (82)	Software Defined Radio (J8203)	Wireless Communicati on & Networks (J4508)	---	Advanced Antenna Theory & Design (J8201)	Phased Array Systems (J8202)	Elective – IV Smart Antennas (J8207) RF Circuit Design (J8208) Radar Signal Processing (J4507)	---	Elective – III EMI/EMC (J8205) Radio & Navigational Aids (J8206)	Elective – III Microwave Networks (J8204)	---
ECE Embedded Systems (55)	Hardware Software Co- Design (J5501)	Elective – III CMOS Mixed Signal Circuit Design (J6802)	Embedded Networking (J5502)	---	Elective – IV System on Chip Design (J5702) Wireless LANs & PANs (J5503) Multimedia & Signal Coding (J5504)	CPLD & FPGA Architectures & Applications (J6809)	Digital Signal Processors & Architectures (J6805)	---	---	Elective – III Micro Electro Mechanical System Design (J6808) Internet Protocols (J4506)

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ECE Digital Systems & Computer Electronics (06)	---	---	---	Design for Testability (J6804)	Elective – III System on Chip Design (J5702) Soft Computing Techniques (J0602) Cyber Security (J0603)	CMOS Analog & Digital IC Design (J0601)	DSP Processors & Architectures (J6805)	Elective – IV Embedded Real Time Operating Systems (J6803), EMI/EMC (J8205) Elective – IV High Speed Network (J0604)	Embedded System Design (J6801)	---
ECE DECS, E&CE, DECE (38/70/37)	---	Wireless Communication & Networks (J4508)	Image & Video Processing (J4502)	Coding Theory & Applications (J3801)	Elective – III Advanced Computer Architecture (J3802) Soft Computing Techniques (J0602) Cyber Security (J0603)	Elective – III CMOS Analog & Digital IC Design (J0601)	Elective – IV DSP Processors & Architecture (J6805)	Elective – IV EMI/EMC (J8205) Object Oriented Programming (J3803)	Embedded System Design (J6801)	---
ECE Communication Systems (47)	Software Defined Radio (J8203)	Wireless Communication & Networks (J4508)	Image & Video Processing (J4502)	Coding Theory & Applications (J3801)	Elective – III Soft Computing Techniques (J0602) Cyber Security (J0603)	---	Elective – IV DSP Processors & Architectures (J6805)	Elective – IV Optical Networks (J4701), Radio & Navigational Aids (J8206)	---	Elective – III Internet Protocols (J4506)

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