



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

**M.TECH I SEMESTER (R16) SUPPLEMENTARY EXAMINATIONS, OCTOBER - 2021**

**(2018, 2017 ADMITTED BATCHES)**

**TIME TABLE**

**TIME: 10:00 AM TO 01:00 PM**

BRANCHES AND SPECIALIZATIONS	04-10-2021 (Monday)	06-10-2021 (Wednesday)	08-10-2021 (Friday)	11-10-2021 (Monday)	18-10-2021 (Monday)	21-10-2021 (Thursday)	23-10-2021 (Saturday)	25-10-2021 (Monday)	27-10-2021 (Wednesday)	29-10-2021 (Friday)
<b>CIVIL</b> <b>Structural Engineering/ Structural Design (87/85)</b>	Earthquake Resistant Design (J8702)	<b>Elective – IV</b> Industrial Structures (J8708),  Bridge Engineering (J8709),	Stability of Structures (J8703)	Theory of Plates & Shells (J8704)	<b>Elective – III</b> Pre-stressed Concrete (J8705), Mechanics of Composite Materials, (J8706) Fracture Mechanics (J8707)	Finite Element Method (J8701)	---	<b>Elective – IV</b> Earth Retaining Structures (J8710)	---	---
<b>CIVIL</b> <b>Transportation Engineering (22)</b>	Transportation Economics & Project Appraisal (J2201)	Transportation Systems Management (J2204)	Land Use & Regional Transportation Planning (J2203)	Traffic Flow Analysis (J2202)	<b>Elective – III</b> Pavement Construction & Evaluation (J2205)  Environmental Impact Assessment (J2206)	<b>Elective – IV</b> Intelligent Transportation Systems (J2207)  Ground Improvement Techniques (J2208)	----	----	----	---

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<b>CIVIL</b> <b>Geo Informatics</b> (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)	---	---	---	---
<b>CIVIL</b> <b>Soil Mechanics &amp; Foundation Engineering/ Geotechnical Engineering</b> (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 Earth Quake 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)	---	----
<b>CIVIL</b> <b>High Way Engineering</b> (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)	--	---	---	---

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<b>CIVIL Computer Aided Structural Engineering (35)</b>	<b>Elective – III</b> 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)	<b>Elective – IV</b> Management Information Systems (J3506) Fracture Mechanics (J8707) Advanced Concrete Technology (J3508)	Finite Element Analysis (J8701)	---	---	---	---

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<b>EEE</b> 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)	<b>Elective – IV</b> High Voltage Testing Techniques (J5610)	---	<b>Elective – III</b> Power System Reliability (J5607)	Advanced Power System Protection (J5604)	<b>Elective – IV</b> Power System Deregulation (J5609),  Power System Transients (J5611)  Demand Side Energy Management (J5612)	<b>Elective – III</b>  Smart Grid Technologies (J5605) Power Quality (J5606)	Flexible AC Transmission Systems (J5602)	<b>Elective – III</b>  Voltage Stability (J5608)	Power System Dynamics & Stability (J5601)	Real Time Control of Power Systems (J5603)
<b>EEE</b> 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)	<b>Elective – III</b>  Renewable Energy System (J4305)  Electrical Distribution Systems (J4307)	<b>Elective – IV</b>  Smart Grid Technologies (J5605) Special Machines (J4308)  Programmable Logic Controllers & Applications (J4309)	---	<b>Elective – III</b>  Reactive Power Compensation & Management (J4306)	---	---

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

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<b>MECHANICAL Thermal Engineering (21)</b>	Fuels, Combustion & Environment (J2101)	Energy Management (J2102)	Finite Element Methods (J2103)	Computational Fluid Dynamics (J2104)	<b>Elective – III</b> Convective Heat Transfer (J2106) Thermal & Nuclear Power Plants (J2107) Advanced Automobile Engineering (J2108)	<b>Elective – IV</b> Thermal Measurements and Process Controls (J2109) Cryogenic Engineering (J2110) JET Propulsion and Rocketry (J2111) Equipment Design for Thermal Systems (J2112)	---	---	---	<b>Elective – III</b> Materials Technology (J2105)
<b>MECHANICAL Thermal Sciences And Energy Systems (18)</b>	Solar Thermal and Photovoltaic Systems (J1801)	Hydrogen and Fuel Cells (J1802)	Biomass, Wind and Ocean Energy (J1803)	Energy Audit and Conservation (J1804)	<b>Elective – III</b> Energy Systems Modelling and Analysis (J1805)  Energy Economics and Planning (J1806)  Optimization Techniques & Applications (J1807)	<b>Elective – IV</b> Instrumentation & Controls (J1808)  Waste Heat Recovery Systems (J1809)  Green Energy Technologies (J1810)	---	---	---	---

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<b>MECHANICAL</b> <b>Machine Design/ Mechanical Engineering Design (15/14)</b>	Experimental Stress Analysis (J1502)	<b>Elective – IV</b>  Theory of Plasticity (J1510)	Finite Element Method (J2103)	<b>Elective – III</b>  Computational Fluid Dynamics (J2104)	<b>Elective – IV</b> Mechatronics (J1509)	<b>Elective – IV</b> Pressure Vessel Design (J1507)  Mechanics of Composite Materials (J1508)	<b>Elective-III</b> Signal Analysis & Condition Monitoring (J1505)	Optimizati on and Reliability (J1501)	Design with advanced Materials (J1503)	<b>Elective – III</b>  Tribology (J1504) Design Synthesi s (J1506)
<b>MECHANICAL</b> <b>Computer Aided Analysis &amp; Design (16)</b>	Experimental Stress Analysis (J1502)	<b>Elective – IV</b>  Theory of Plasticity (J1510)	----	<b>Elective – III</b>  Computational Fluid Dynamics (J2104)	<b>Elective – III</b>  Fracture Mechanics (J0404)  <b>Elective – III</b> Mechatronics (J1509)	Mechanics of Composite Materials (J1508)	Signal Analysis & Condition Monitoring (J1505)	Optimizati on and Reliability (J1501)	----	<b>Elective – IV</b> Tribology (J1504) Design Synthesi s (J1506)
<b>MECHANICAL</b> <b>CAD/CAM (04)</b>	Modeling & Simulation of Manufacturing Systems (J0401)	<b>Elective – IV</b> Mechanics & Manufacturin g Methods of Composites (J0406)  Intelligent Manufacturin g Systems (J0407)	Finite Element Method (J2103)	Computer Graphics (J0402)	<b>Elective – III</b> Fracture Mechanics (J0404)  Concurrent Engineering (J0405)	---	---	Optimization and Reliability (J1501)	<b>Elective-III</b>  .Quality Engineering in Manufacturi ng (J0403)	<b>Elective – IV</b>  Materials Technolog y (J2105)
<b>MECHANICAL</b> <b>Advanced Manufacturing Systems (17)</b>	Modeling & Simulation of Manufacturing Systems (J0401)	Intelligent Manufacturin g Systems (J0407)	<b>Elective – III</b>  Finite Element Method (J2103)	<b>Elective – IV</b>  Computational Fluid Dynamics (J2104)	<b>Elective – III</b> Concurrent Engineering (J0405) Design and Manufacturing of MEMS & Microsystems (J1701)	---	<b>Elective – IV</b> Production & Operations Management (J1702)	Optimization & Reliability (J1501)	Quality Engineering in Manufacturi ng (J0403)	<b>Elective – IV</b>  Materials Technolog y (J2105)

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<b>MECHANICAL</b> <b>Computer Aided Design &amp; Manufacturing (09)</b>	Modeling & Simulation of Manufacturing Systems (J0401)	<b>Elective – IV</b> Mechanics & Manufacturing Methods of Composites (J0901) Intelligent Manufacturing Systems (J0407)	Finite Element Method (J2103)	Computer Graphics (J0402)	<b>Elective – III</b> Fracture Mechanics (J0404) Concurrent Engineering (J0405) Design and Manufacturing of MEMS & Microsystems (J1701)	---	<b>Elective – IV</b> Signal Analysis & Condition Monitoring (J1505)	Optimization and Reliability (J1501)	<b>Elective-III</b> .Quality Engineering in Manufacturing (J0403)	<b>Elective – IV</b> Materials Technology (J2105)
<b>MECHANICAL</b> <b>Advanced Manufacturing And Mechanical System Design (13)</b>	Modeling & Simulation of Manufacturing Systems (J0401)	Intelligent Manufacturing Systems (J0407)	<b>Elective – III</b> Finite Element Methods (J2103) Control Systems (J1302)	Precision Engineering (J1301)	<b>Elective – III</b> Design and Manufacturing of MEMS and Microsystems (J1701)	<b>Elective – IV</b> Product Design (J1303) Flexible Manufacturing Systems (J1304)	Production and Operations Management (J1702)	-----	-----	<b>Elective – IV</b> Materials Technology (J2105)
<b>MECHANICAL</b> <b>Petroleum Engineering (08)</b>	Advanced Natural Gas Engineering (J0801)	Artificial Lift Techniques (J0802)	Operational Aspects of Well Testing (J0803)	Integrated Reservoir Management (J0804)	<b>Elective –III</b> Practical Reservoir Modeling & Simulation (J0805) Optimization of Oil & Gas Production (J0806 ) Flow Assurance (J0807)	<b>Elective – IV</b> Process Safety & Environmental Aspects in Petroleum Industry (J0808) Deep Water Technologies (J0809) Characterization of Petroleum Oils (J0810)	---	---	---	---

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

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

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

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

BRANCHES AND SPECIALIZATIONS	04-10-2021 (Monday)	06-10-2021 (Wednesday)	08-10-2021 (Friday)	11-10-2021 (Monday)	18-10-2021 (Monday)	21-10-2021 (Thursday)	23-10-2021 (Saturday)	25-10-2021 (Monday)	27-10-2021 (Wednesday)	29-10-2021 (Friday)
<b>ECE</b> SSP, DIP, CE & SP, IP, C&SP/SP&C (45/63/46/80/36)	Adaptive Signal Processing (J4501)	<b>Elective – IV</b> Wireless Communicati on & Networks (J4508)	Image & Video Processing (J4502)	Elective- III Computer Vision J4504	<b>Elective – III</b> Bio-Medical Signal Processing (J4505)	<b>Elective – IV</b> Radar Signal Processing (J4507)	DSP Processors & Architectures (J6805)	Detection & Estimation Theory (J4503)	<b>Elective – III</b> Embedded System Design (J6801)	<b>Elective – IV</b> Internet Protocols (J4506)
<b>ECE</b> Microwave & Communication Engineering (82)	Software Defined Radio (J8203)	Wireless Communicati on & Networks (J4508)	---	Advanced Antenna Theory & Design (J8201)	Phased Array Systems (J8202)	<b>Elective – IV</b> Smart Antennas (J8207)  RF Circuit Design (J8208)  Radar Signal Processing (J4507)	---	<b>Elective – III</b> EMI/EMC (J8205) Radio & Navigational Aids (J8206)	<b>Elective – III</b> Microwave Networks (J8204)	---
<b>ECE</b> Embedded Systems (55)	Hardware Software Co- Design (J5501)	<b>Elective – III</b> CMOS Mixed Signal Circuit Design (J6802)	Embedded Networking (J5502)	---	<b>Elective – IV</b> System on Chip Design (J5702)  Wireless LANs & PANs (J5503)  Multimedia & Signal Coding (J5504)	CPLD & FPGA Architectures & Applications (J6809)	Digital Signal Processors & Architectures (J6805)	---	---	<b>Elective – III</b> Micro Electro Mechanical System Design (J6808) Internet Protocols (J4506)

BRANCHES AND SPECIALIZATIONS	04-10-2021 (Monday)	06-10-2021 (Wednesday)	08-10-2021 (Friday)	11-10-2021 (Monday)	18-10-2021 (Monday)	21-10-2021 (Thursday)	23-10-2021 (Saturday)	25-10-2021 (Monday)	27-10-2021 (Wednesday)	29-10-2021 (Friday)
<b>ECE</b>  <b>Digital Systems &amp; Computer Electronics (06)</b>	---	---	---	Design for Testability (J6804)	<b>Elective – III</b> System on Chip Design (J5702)  Soft Computing Techniques (J0602)  Cyber Security (J0603)	CMOS Analog & Digital IC Design (J0601)	DSP Processors & Architectures (J6805)	<b>Elective – IV</b> Embedded Real Time Operating Systems (J6803),  EMI/EMC (J8205)  <b>Elective – IV</b> High Speed Network (J0604)	Embedded System Design (J6801)	---
<b>ECE</b>  <b>DECS, E&amp;CE, DECE (38/70/37)</b>	---	Wireless Communication & Networks (J4508)	Image & Video Processing (J4502)	Coding Theory & Applications (J3801)	<b>Elective – III</b> Advanced Computer Architecture (J3802)  Soft Computing Techniques (J0602)  Cyber Security (J0603)	<b>Elective –III</b>  CMOS Analog & Digital IC Design (J0601)	<b>Elective – IV</b>  DSP Processors & Architecture (J6805)	<b>Elective – IV</b>  EMI/EMC (J8205) Object Oriented Programming (J3803)	Embedded System Design (J6801)	---
<b>ECE</b>  <b>Communication Systems (47)</b>	Software Defined Radio (J8203)	Wireless Communication & Networks (J4508)	Image & Video Processing (J4502)	Coding Theory & Applications (J3801)	<b>Elective – III</b>  Soft Computing Techniques (J0602) Cyber Security (J0603)	---	<b>Elective – IV</b>  DSP Processors & Architectures (J6805)	<b>Elective – IV</b> Optical Networks (J4701),  Radio & Navigational Aids (J8206)	---	<b>Elective – III</b>  Internet Protocols (J4506)

- NOTE:** i) ANY OMISSIONS OR CLASHES IN THIS TIME TABLE MAY PLEASE BE INFORMED TO THE CONTROLLER OF EXAMINATIONS (PG) 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: 18-09-2021

Controller of Examinations