



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
UNIVERSITY EXAMINATION BRANCH, KAKINADA

M.TECH II SEMESTER (R19 REGULATION) REGULAR/SUPPLEMENTARY EXAMINATIONS, JULY/AUGUST - 2024
(FOR 2020 ADMITTED BATCHES ONWARDS)

T I M E T A B L E

TIME: 10:00 AM TO 01:00 PM

BRANCH & SPECIALIZATION	22-07-2024 (Monday)	24-07-2024 (Wednesday)	26-07-2024 (Friday)	29-07-2024 (Monday)	31-07-2024 (Wednesday)	02-08-2024 (Friday)
Civil Transportation Engineering (22)	Pavement Analysis and Design (N2201)	Transportation Planning (N2202)	Elective III Pavement Construction (N2203) Elective III Environmental Impact Assessment (N2204) Elective III Traffic Flow Analysis (N2205)	Elective IV Geosynthetics and Reinforced Earth Structures (N2206) Elective IV Intelligent Transportation System (N2208) Elective IV Highway Safety Engineering (N2207)	----	----
Civil Structural Engineering/ Structural Design (87)/(85)	Finite Element Methods in Structural Engineering (N8701)	Theory of Plates and Shells (N8702)	Elective III Stability of Structures (N8703) Elective III Analysis of Offshore Structures (N8705)	Elective IV Precast and Prefabricated Structures (N8707) Elective IV Earthquake Resistant Design of Buildings (N8706)	Elective III Advanced Steel Design (N8704)	Elective IV Earth Retaining Structures (N8708)

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Civil Computer Aided Structural Analysis and Design (35)	Finite Element Methods in Structural Engineering (N8701)	CAD & Computer Applications in Structural Engineering (N3501)	Elective III Stability of Structures (N8703) Elective III Analysis of Shells and Folded Plates (N3502)	Elective IV Earthquake Resistant Design of Buildings (N8706) Elective IV Precast and Prefabricated Structures (N8707) Elective IV Management Information Systems (N3503)	Elective III Advanced Steel Design (N8704)	----
Civil Soil Mechanics & Foundation Engineering / Geo-Technical Engineering (19)/(20)	Elective III Pavement Analysis Design & Evaluation (N2201)	Advanced Foundation Engineering (N2001)	Elective III Construction Planning & Methods (N2003) Elective III Geotechnical Earthquake Engineering (N2004)	Elective IV Numerical Methods in Geotechnical Engineering (N2007) Elective IV Earth Dams (N2005) Elective IV Construction in Expansive Soils (N2006)	----	Earth Retaining Structures (N2002)
Civil Highway Engineering (23)	Pavement Analysis & Design (N2201)	Pavement Construction, Maintenance & Management (N2301)	Elective III Land use and Transportation Modeling (N2302) Elective III Transportation Systems and Management (N2303)	Elective III Highway Safety Engineering (N2207)	Elective IV Environmental Impact Assessment for Transportation Projects (N2304) Elective IV GIS Applications in Transportation Engineering (N2305) Elective IV Highway Project Formulation and Economics (N2306)	----

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Civil Environmental Engineering (86)	Air and Noise Pollution Control (N8601)	Solid and Hazardous Waste Management (N8602)	Elective III Environmental Impact Assessment (N8603) Elective III Environmental Systems Analysis (N8605) Elective III Green Technologies (N8604)	Elective IV Occupational, Environmental Health and Safety (N8607) Elective IV Disaster Management (N8606) Elective IV Air Quality Modelling and Management (N8608)	---	---

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Date: 08-07-2024

Controller of Examinations (PG)



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CSE Computer Networks & Information Security (84)	Principles of Cyber Security (N8401)	Cyber Crime Investigation and Digital Forensics (N8402)	Elective IV Cloud & IoT Security (N8408)	Elective IV Applied Cryptography (N8409)	Elective III Wireless and Mobile Security (N8403) Elective III Firewall and VPN Security (N8405) Elective III Information Theory & Coding (N8406) Elective III Android Security Design and Internals (N8404)	Elective IV Vulnerability Assessment & Penetration Testing (N8407) Elective IV Secure Coding (N8410)
CSE Computer Science & Engineering (58)	Elective III Advanced Databases and Mining (N5803)	MEAN Stack Technologies (N5802)	Machine learning (N5801)	Elective III Ad Hoc & Sensor Networks (N5804)	Elective III Soft Computing (N5805)	Elective IV Cloud Computing (N5806) Elective IV High Performance Computing (N5808) Elective IV Principles of computer security (N5807)

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CSE Computer Science & Technology (59)	Elective IV Full Stack Technologies (N5907)	Advanced Algorithms (N5901)	Machine Learning (N5801)	Elective III Advanced Network Principles and Protocols (N5902) Elective III Open Source Programming (N5904) Elective III Internet of Things (N5903)	Elective III Soft Computing (N5805) Elective III Pattern Recognition (N5905)	Elective IV Parallel Algorithms (N5908) Elective IV Natural Language Processing (N5906) Elective IV Distributed Databases (N5910) Elective IV Object Oriented Software Engineering (N5909)
CSE Information Technology (40)	Full Stack Technologies (N5907)	Advanced Algorithms (N5901)	Elective III Machine Learning (N5801)	Elective III Advanced Network Principles and Protocols (N5902) Elective III Dev Ops (N4001) Elective III Distributed Computing (N4002) Elective III Social Network Analytics (N4003)	Elective IV Soft Computing (N5805) Elective IV Digital Image Processing (N4004)	Elective IV Block Chain Technologies (N4005) Elective IV Data Science (N4006) Elective IV Natural Language Processing (N5906)
CSE Computer Networks (94)	Network Security (N9401)	Wireless Sensor Networks (N9402)	Elective III Web Security (N9403)	Elective III Intrusion Detection & Prevention Systems (N9404) Elective III Internet of Things (N5903)	Elective IV Firewall & VPN Security (N9405) Elective IV Service Oriented Architecture (N9407)	Elective IV Machine Learning (N9406)

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CSE Neural Networks (69)	Deep Learning (N6901)	Elective III Computer Vision (N6902)	Elective III Big Data Analytics (N6903)	Elective III Remote Sensing (N6904)	Soft Computing (N5805)	Elective IV Cognitive Systems (N6905) Elective IV Natural Language Processing (N5906) Elective IV Knowledge Discovery (N6906)
CSE Cyber Security (26)	----	Malware Analysis & Reverse Engineering (N2601)	Elective III Data Privacy (N2602) Elective III Machine Learning (N5801) Elective III Cloud and IoT Security (N8408)	Elective IV Principles of Secure Coding (N2603) Elective IV Applied Cryptography (N8409)	Elective IV Security Assessment and Risk Analysis. (N2604)	Vulnerability Assessment & Penetration Testing (N8407)
CSE Computer Science (05)	Data Science through Python Programming (N0501)	Advanced Algorithms (N5901)	Elective III Machine Learning (N5801)	Elective III Ad hoc and Sensor Networks (N5804) Elective III Internet of Things (N5903)	Elective IV Cryptography and network Security (N0502) Elective IV Web Technologies (N0503)	Elective IV Cloud Computing (N5806)
CSE Data Science (88)	Elective III Natural Language Processing (N8801)	Advanced Algorithms (N5901)	Machine Learning Techniques (N5801)	Elective IV Principles of Deep Learning (N8802)	Elective IV Image and Video Analytics (N8803) Elective IV Principles of Data Security (N8804)	Elective III Cloud Computing (N5806) Elective III High Performance Computing (N5808)

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CSE Software Engineering (25)	Elective III Software Testing Methodologies (N2503)	Mathematical Foundations of Computer Science (N2502)	Service Oriented Architecture (N2501)	Elective III Agile Software Development (N2504)	Elective IV Secure Software Engineering (N2506) Elective IV Design patterns (N2508) Elective IV Big Data Analytics (N2507)	Elective III ERP & Supply Chain Management (N2505)

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Mechanical Advanced Manufacturing & Mechanical System Design (13)	Advanced Manufacturing Processes-II (N1301)	Computer Integrated Manufacturing (N1302)	Elective III Finite Element Methods (N1303)	Elective IV Advanced CNC Technologies (N1307)	Elective III MEMS & Micro systems (N1305) Elective III Concurrent Engineering (N1304)	Elective IV Production and Operation Management (N1306) Elective IV Supply Chain Management (N1308)
Mechanical Advanced Manufacturing Systems (17)	Simulation of Manufacturing Systems (N1701)	Computer Integrated Manufacturing (N1302)	Elective III Finite Element Methods (N1303)	Elective IV Advanced CNC Technologies (N1307)	Elective III MEMS & Micro systems (N1305) Elective III Concurrent Engineering (N1304)	Elective IV Production and Operation Management (N1306) Elective IV Supply Chain Management (N1308)
Mechanical Computer Aided Design & Manufacturing (09)	Theory of Elasticity and Plasticity (N0901)	Advanced Manufacturing Processes (N0902)	Elective III Advanced Finite Element Methods (N1303) Elective III Fracture Mechanics (N0903)	Elective IV Additive Manufacturing (N0907) Elective IV Optimization & Reliability (N0906)	Elective III Product Design and Development (N0904)	Elective IV Materials Characterization Techniques (N0905)

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<p align="center">Mechanical</p> <p align="center">CAD/ CAM (04)</p>	<p align="center">Theory of Elasticity and Plasticity (N0901)</p>	<p align="center">Advanced Manufacturing Processes (N0401)</p>	<p align="center">Elective III Advanced Finite Element Methods (N1303)</p> <p align="center">Elective III Fracture Mechanics (N0903)</p>	<p align="center">Elective IV Additive Manufacturing (N0907)</p> <p align="center">Elective IV Optimization & Reliability (N0906)</p>	<p align="center">Elective III Product Design and Development (N0904)</p>	<p align="center">Elective IV Materials Characterization Techniques (N0905)</p>
<p align="center">Mechanical</p> <p align="center">Machine Design (15)</p>	<p align="center">Advanced Machine Design (N1501)</p>	<p align="center">Elective III Theory of Plasticity (N1502)</p>	<p align="center">Advanced Finite Element Methods (N1303)</p>	<p align="center">Elective III Computational Fluid Dynamics (N1504)</p> <p align="center">Elective III Signal Analysis and Condition Monitoring (N1503)</p> <p align="center">Elective III Soft Computing (N1506)</p>	<p align="center">Elective IV Mechatronics (N1509)</p> <p align="center">Elective IV Experimental Techniques and data analysis (N1507)</p> <p align="center">Elective IV Design with advanced Materials (N1508)</p> <p align="center">Elective IV Tribology (N1510)</p> <p align="center">Elective IV Experimental Modal Analysis (N1511)</p>	<p align="center">Elective III Composite Materials (N1505)</p>

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<p align="center">Mechanical Mechanical Engineering Design (14)</p>	<p align="center">Advanced Machine Design (N1501)</p>	<p align="center">Elective III Theory of Plasticity (N1502)</p>	<p align="center">Advanced Finite Element Methods (N1303)</p>	<p align="center">Elective III Computational Fluid Dynamics (N1504)</p> <p align="center">Elective III Signal Analysis and Condition Monitoring (N1503)</p> <p align="center">Elective III Computer Aided Mechanical Design and Analysis (N1401)</p>	<p align="center">Elective IV Mechatronics (N1509)</p> <p align="center">Elective IV Tribology (N1510)</p> <p align="center">Elective IV Experimental Modal Analysis (N1511)</p> <p align="center">Elective IV Design with advanced Materials (N1508)</p> <p align="center">Elective IV Experimental Techniques and data analysis (N1507)</p>	<p align="center">Elective III Composite Materials (N1505)</p>
<p align="center">Mechanical Thermal Engineering (21)</p>	<p align="center">Advanced Heat and Mass Transfer (N2101)</p>	<p align="center">Thermal Measurements and Process Controls (N2102)</p>	<p align="center">Elective III Equipment Design for Thermal Systems (N2103)</p> <p align="center">Elective III Solar Energy Technologies (N2104)</p>	<p align="center">Elective IV Jet Propulsion and Rocket Engineering (N2107)</p> <p align="center">Elective IV Modeling of I.C engines (N2109)</p>	<p align="center">Elective III Advanced Power Plant Engineering (N2105)</p> <p align="center">Elective III Combustion, Emissions and Environment (N2106)</p>	<p align="center">Elective IV Automotive Engineering (N2108)</p> <p align="center">Elective IV Renewable Energy Technologies (N2110)</p>

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<p align="center">Mechanical Automobile Engineering (AA)</p>	<p align="center">Vehicle Body Engineering (NAA01)</p>	<p align="center">Vehicle Dynamics (NAA02)</p>	<p align="center">Elective IV Advanced Finite Element Methods (N1303)</p> <p align="center">Elective IV Advanced Metal Forming (NAA07)</p> <p align="center">Elective IV Automotive Safety and Maintenance (NAA08)</p> <p align="center">Elective IV Vehicle Control Systems (NAA09)</p> <p align="center">Elective IV Simulation of Vehicle Systems (NAA10)</p>	<p align="center">Elective III Noise, Vibrations and Harshness (NAA03)</p> <p align="center">Elective III Automotive System Components Design (NAA06)</p>	<p align="center">Elective III Condition Monitoring (NAA04)</p>	<p align="center">Elective III Automotive Air- Conditioning Systems (NAA05)</p>
<p align="center">Mechanical Thermal Sciences And Energy Systems (18)</p>	<p align="center">Solar Energy and Fuel Cell Technologies (N1801)</p>	<p align="center">Energy Conservation and Management (N1802)</p>	<p align="center">Elective III Energy Systems Modeling and Analysis (N1803)</p> <p align="center">Elective III Energy Economics and Planning (N1804)</p>	<p align="center">Elective IV Waste Heat Recovery Systems (N1807)</p> <p align="center">Elective IV Design of Heat Transfer Equipment (N1808)</p> <p align="center">Elective IV Combustion, Emissions and Environment (N1809)</p> <p align="center">Elective IV Green Buildings (N1810)</p>	<p align="center">Elective III Optimization Techniques and Applications (N1805)</p>	<p align="center">Elective III Biomass, Wind and Ocean Energy (N1806)</p>

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Mechanical Computer Aided Analysis & Design (16)	Advanced Mechanisms (N1601)	Elective III Design for Manufacturing (N1602)	Elective III Advanced Finite Element Methods (N1303) Elective III Fracture Mechanics (N0903)	Optimization and Reliability (N0906)	Elective IV Tribology in Design (N1510)	Elective IV Rapid Prototyping & Tool Design (N1604) Elective IV Industrial Robotics (N1603)
Mechanical Mining Engineering (BB)	Mine Safety Management (NBB01)	Mine Ventilation and Planning (NBB02)	Elective III Surface Mine Environmental Engineering (NBB03) Elective III Mine System Engineering (NBB04)	Elective IV Advanced Underground Mine Planning and Design (NBB07) Elective IV Numerical Methods in Geotechnical Engineering (NBB08)	Elective III Sustainable Mining Industry (NBB05)	Elective IV Geo- Statistics (NBB06)
Petroleum Engineering (08)	Artificial Lift Techniques. (N0801)	Reservoir Modeling & Simulation. (N0802)	Elective III Advanced EOR Techniques (N0803)	Elective III Advanced well Completions (N0804)	Elective IV Flow Assurance (N0805)	Elective IV Advanced Horizontal well Technology (N0806)

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ECE Communication Engineering & Signal Processing/ Communication & Signal Processing (46,80)	Pattern Recognition and Machine Learning (N4601)	Detection and Estimation Theory (N4602)	Elective III IOT and Applications (N4603)	Elective III Wireless Sensor Networks (N4604)	Elective III Soft Computing Techniques (N4605)	Elective IV Smart Antennas (N4606) Elective IV Biomedical Signal Processing (N4607) Elective IV Optical Networks (N4608)
ECE Communication Systems (47)	Elective IV DSP Processors and Architectures (N4706)	Wireless Communications and Networks (N4701)	Image and Video Processing (N4702)	Elective III Internet Protocols (N4703) Elective III Cyber Security (N4704)	Elective III Soft Computing Techniques (N4605)	Elective IV Radio and Navigational Aids (N4707) Elective IV Optical Networks (N4705)
ECE Digital Electronics & Communication Engineering/ Digital Electronics & Communication Systems/ Electronics & Communication Engineering (37,38,70)	Elective IV DSP Processors and Architectures (N4706)	Wireless Communications and Networks (N4701)	Image and Video Processing (N4702)	Elective III CMOS Analog & Digital IC Design (N3701)	Elective III Advanced Computer Architecture (N3702) Elective III Soft Computing Techniques (N4605)	Elective IV EMI/ EMC (N3703) Elective IV Object Oriented Programming (N3704)

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ECE Digital System & Computer Electronics (DSCE) (06)	DSP Processors and Architectures (N4706)	Elective III System On Chip Design (N0602)	Internet Of Things & Applications (N0601)	Elective III Cyber Security (N4704)	Elective III Soft Computing Techniques (N4605)	Elective IV High Speed Networks (N0604) Elective IV EMI/EMC (N3703) Elective IV Embedded Real Time Operating Systems (N0603)
ECE System & Signal Processing/ Digital Image Processing (45,63)	Pattern Recognition and Machine Learning (N4601)	Detection and Estimation Theory (N4602)	Elective III IOT and Applications (N4603)	Elective III Wireless Sensor Networks (N4604)	Elective III Soft Computing Techniques (N4605)	Elective IV Audio/Video Coding & Compression (N4501) Elective IV Biomedical Signal Processing (N4607) Elective IV Optical Networks (N4608)
ECE Embedded Systems (55)	Elective IV Physical Design Automation (N5508)	Real Time Operating Systems (N5502)	Elective III Memory Architectures (N5503)	Elective III SoC Design (N5504) Elective III Sensors & Actuators (N5505)	Digital System Design (N5501)	Elective IV Communication Buses and Interfaces (N5506) Elective IV Network Security and Cryptography (N5507)

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<p>ECE</p> <p>VLSI & Embedded Systems, Embedded System & VLSI, VLSID&ES, ES&VLSID</p> <p>(68,48,77,81)</p>	<p>Elective IV Physical Design Automation (N5508)</p>	<p>Real Time Operating Systems (N5502)</p>	<p>Elective III Memory Architectures (N5503)</p>	<p>Elective III SoC Design (N5504)</p> <p>Elective III Low power VLSI Design (N6802)</p>	<p>Analog and Digital CMOS VLSI Design (N6801)</p>	<p>Elective IV Communication Buses and Interfaces (N5506)</p> <p>Elective IV Network Security and Cryptography (N5507)</p>
<p>ECE</p> <p>VLSI, VLSI Design, VLSI System Design, VLSI Micro-Electronics</p> <p>(57,72,61,76)</p>	<p>Physical Design Automation (N5508)</p>	<p>Mixed Signal & RF IC Design (N5701)</p>	<p>Elective III VLSI Signal Processing (N5703)</p> <p>Elective III IOT & its Applications (N0601)</p>	<p>Elective III Design For Testability (N5702)</p>	<p>Elective IV Microcontrollers & programmable Digital Signal Processors (N5704)</p>	<p>Elective IV Low Power VLSI Design (N5705)</p> <p>Elective IV Network Security & Cryptography (N5507)</p>

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EEE Control Systems/Control Engineering (95,28)	Elective III Robotics and Control (N9504)	Non-Linear Systems Analysis (N9501)	Elective III Advanced Digital Signal Processing (N9503)	Optimal Control Theory (N9502)	Elective III Large scale systems (N9505)	Elective IV Process Control and Automation (N9506) Elective IV Decision and Estimation Theory (N9507) Elective IV Embedded Computer Control (N9508)
EEE High Voltage Engineering/ Power Systems with emphasis on H. V. Engineering/ High Voltage and Power Systems Engineering (62,29,64)	High Voltage Testing Techniques (N6201)	Elective IV EHVAC Transmission (N6207) Elective IV Flexible AC Transmission Systems (N6206) Elective IV Smart Grid Technologies (N6208)	Surge Phenomenon & Insulation Coordination (N6202)	Elective III Gas Insulated Systems and Substations (N6204)	Elective III Pulse Power Engineering (N6205)	Elective III Partial Discharge in HV Equipment (N6203)

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EEE Power Electronics/ Power and Industrial Drives/ Power Electronics and Electrical Drives / Power Electronics and Drives/ Power Electronics and systems/ Electrical Machines and Drives (43,42,54,52,12,44)	Switched Mode Power Conversion (N4301)	Power Electronic Control of Electrical Drives (N4302)	Elective IV Advanced Digital Signal Processing (N9503)	Elective III Control & Integration of Renewable Energy Systems (N4303) Elective III Hybrid Electric Vehicles (N4304) Elective III Digital Control Systems (N4305)	Elective IV Applications of Power Converters (N4306)	Elective IV Microcontrollers (N4307)
EEE Power Electronics & Power systems (99)	Switched Mode Power Conversion (N4301)	Elective IV EHVAC Transmission (N6207) Elective IV Flexible AC Transmission Systems (N6206)	Real Time Control of Power Systems (N9901)	Elective III Electrical Machine Modeling & Analysis (N9902) Elective III DSP Controlled Drives (N9903)	Elective III Applications of Power Converters (N4306)	Elective IV Power System Dynamics & Stability (N9904)
EEE Power Systems/ Power System Control And Automation/ Power System Engineering/ Power System Control / Advanced Power Systems/ Electrical Power Engineering/ Power Engineering & Energy Systems Electrical Power Systems, Power System and Automation (56,53,30,31,50,60,65,66)	Elective IV Generation & Measurement of High Voltages (N5601)	Elective III EHVAC Transmission (N6207) Elective III Flexible AC Transmission Systems (N6206)	Real Time Control of Power Systems (N9901)	Elective III Hybrid Electric Vehicles (N4304)	Elective IV Evolutionary Algorithms and Applications (N5602) Elective IV Programmable Logic Controllers & Applications (N5603)	Power System Dynamics and Stability (N9904)

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TIME TABLE

TIME: 10:00 AM TO 01:00 PM

BRANCH & SPECIALIZATION	22-07-2024 (Monday)	24-07-2024 (Wednesday)	26-07-2024 (Friday)	29-07-2024 (Monday)	31-07-2024 (Wednesday)
Environmental Occupational Health & Safety (79)	Occupational Health & Hygiene (N7901)	Disaster Management (N7904)	Safety At Different Industries – I (N7903)	Construction Safety (N7902)	Safety Engineering Activities (N7905)

- 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 time table immediately.

Controller of Examinations (PG)

Date: 08-07-2024