



# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

## M.TECH II SEMESTER (R19 REGULATION) I MID EXAMINATIONS, JUNE - 2023

### TIME TABLE

TIME: 10.00 AM to 12.00 NOON

BRANCH & SPECIALIZATION	05-06-2023 (Monday)	06-06-2023 (Tuesday)	07-06-2023 (Wednesday)	08-06-2023 (Thursday)
<b>Civil Transportation Engineering</b> (22)	Pavement Analysis and Design (N2201)	Transportation Planning (N2202)	<b>Elective-III</b> Pavement Construction (N2203), Environmental Impact Assessment (N2204), Traffic Flow Analysis (N2205)	<b>Elective-IV</b> Geosynthetics and Reinforced Earth Structures (N2206), Highway Safety Engineering (N2207), Intelligent Transportation System (N2208)
<b>Civil Structural Engineering (87), Structural Design (85)</b>	Finite Element Methods in Structural Engineering (N8701)	Theory of Plates and Shells (N8702)	<b>Elective-III</b> Stability of Structures (N8703), Advanced Steel Design (N8704), Analysis of Offshore Structures (N8705)	<b>Elective-IV</b> Earthquake Resistant Design of Buildings (N8706), Precast and Prefabricated Structures (N8707), Earth Retaining Structures (N8708)
<b>Civil Soil Mechanics &amp; Foundation Engineering / Geo-Technical Engineering</b> (19)/(20)	Advanced Foundation Engineering (N2001)	Earth Retaining Structures (N2002)	<b>Elective-III</b> Pavement Analysis Design & Evaluation (N2201), Construction Planning & Methods (N2003), Geotechnical Earthquake Engineering (N2004)	<b>Elective-IV</b> Earth Dams (N2005) Construction in Expansive Soils (N2006), Numerical Methods in Geotechnical Engineering (N2007)
<b>Civil Highway Engineering</b> (23)	Pavement Analysis & Design (N2201)	Pavement Construction, Maintenance & Management (N2301)	<b>Elective - III</b> Highway Safety Engineering (N2207), Land use and Transportation Modeling (N2302), Transportation System Management (N2303)	<b>Elective-IV</b> Environmental Impact Assessment for Transportation Projects (N2304), GIS Applications in Transportation Engineering (N2305) Highway Project Formulation and Economics (N2306)



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<b>Civil Computer aided Structural Analysis and Design (35)</b>	Finite Element Methods in Structural Engineering (N8701)	CAD & Computer Applications in Structural Engineering (N3501)	<b>Elective – III</b> Stability of Structures (N8703) Advanced Steel Design (N8704) Analysis of Shells and Folded Plates (N3502)	<b>Elective-IV</b> Earthquake Resistant Design of Buildings (N8706) Precast and Prefabricated Structures (N8707) Management Information Systems (N3503)
<b>Environmental Engineering (86)</b>	Air and Noise Pollution Control (N8601)	Solid and Hazardous Waste Management (N8602)	<b>Elective – III</b> Environmental Impact Assessment (N8603) Green Technologies (N8604) Environmental System Analysis (N8605)	<b>Elective-IV</b> Disaster Management (N8606) Occupational and Environmental Health (N8607) Air Quality Modelling and Management (N8608)

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Date: 22-05-2023

Controller of Examinations (PG)



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<b>CSE Computer Science (05)</b>	Advance Algorithms (N5901)	Data Science through Python Programming (N0501)	<b>Elective – III</b> Machine Learning (N5801) Ad hoc and Sensor Networks (N5804) Internet of Things (N5903)	<b>Elective – IV</b> Cryptography and network Security (N0502) Cloud Computing (N5806) Web Technologies (N0503)
<b>CSE Software Engineering (25)</b>	Service Oriented Architecture (N2501)	Mathematical Foundations of Computer Science (N2502)	<b>Elective – III</b> Software Testing Methodologies (N2503) Agile Software Development (N2504) ERP & Supply Chain Management (N2505)	<b>Elective – IV</b> Secure Software Engineering (N2506) Big Data Analytics (N2507) Design patterns (N2508)
<b>CSE Cyber Security (26)</b>	Vulnerability Assessment & Penetration Testing (N8407)	Malware Analysis & Reverse Engineering (N2601)	<b>Elective – III</b> Cloud and IoT Security (N8408) Machine Learning (N5801) Data Privacy (N2602)	<b>Elective – IV</b> Applied Cryptography (N8409) Principles of Secure Coding (N2603) Security Assessment and Risk Analysis (N2604)
<b>CSE Information Technology (40)</b>	Advanced Algorithms (N5901)	Full Stack Technologies (N5907)	<b>Elective – III</b> Machine Learning (N5801) DevOps (N4001) Advanced Network Principles and Protocols (N5902) Distributed Computing (N4002) Social Network Analytics (N4003)	<b>Elective – IV</b> Digital Image Processing (N4004) Block Chain Technologies (N4005) Data Science (N4006) Soft Computing (N5805) Natural Language Processing (N5906)



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<b>CSE Neural Networks (69)</b>	Soft Computing (N5805)	Deep Learning (N6901)	<b>Elective – III</b> Computer Vision (N6902) Big Data Analytics (N6903) Remote Sensing (N6904)	<b>Elective – IV</b> Cognitive Systems (N6905) Knowledge Discovery (N6906) Natural Language Processing (N5906)
<b>CSE Computer Networks &amp; Information Security (84)</b>	Principles of Cyber Security (N8401)	Cyber Crime Investigation & Digital Forensics (N8402)	<b>Elective – III</b> Wireless and Mobile Security (N8403) Android Security Design and Internals (N8404) Firewall and VPN Security (N8405) Information Theory & Coding (N8406)	<b>Elective – IV</b> Vulnerability Assessment & Penetration Testing (N8407) Cloud & IoT Security (N8408) Applied Cryptography (N8409) Secure Coding (N8410)
<b>CSE Computer Science &amp; Technology (59)</b>	Advanced Algorithms (N5901)	Machine Learning (N5801)	<b>Elective – III</b> Soft Computing (N5805), Advanced Network Principles and Protocols (N5902), Internet of Things (N5903), Open Source Programming (N5904), Pattern Recognition (N5905)	<b>Elective – IV</b> Natural Language Processing (N5906), Full Stack Technologies (N5907), Parallel Algorithms (N5908), Object Oriented Software Engineering (N5909), Distributed Database (N5910)
<b>CSE Computer Science &amp; Engineering (58)</b>	Machine learning (N5801)	MEAN Stack Technologies (N5802)	<b>Elective – III</b> Advanced Databases and Mining (N5803), Ad Hoc & Sensor Networks (N5804), Soft Computing (N5805)	<b>Elective – IV</b> Cloud Computing (N5806), Principles of computer security (N5807), High Performance Computing (N5808)



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**T I M E T A B L E**

TIME: 10.00 AM to 12.00 NOON

BRANCH & SPECIALIZATION	05-06-2023 (Monday)	06-06-2023 (Tuesday)	07-06-2023 (Wednesday)	08-06-2023 (Thursday)
<b>CSE Computer Networks (94)</b>	Network Security (N9401)	Wireless Sensor Networks (N9402)	<b>Elective – III</b> Web Security (N9403), Internet of Things (N5903), Intrusion Detection & Prevention Systems (N9404)	<b>Elective – IV</b> Firewall & VPN Security (N9405), Machine Learning (N9406), Service Oriented Architecture (N9407)
<b>CSE Data Science (88)</b>	Advance Algorithms (N5901)	Machine Learning Techniques (N5801)	<b>Elective – III</b> Natural Language Processing(N8801), High Performance Computing (N5808), Cloud Computing (N5806)	<b>Elective – IV</b> Principles of Deep Learning (N8802), Image and Video Analytics (N8803), Principles of Data Security (N8804)

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<b>Mechanical</b> <b>Thermal Engineering</b> (21)	Advanced Heat and Mass Transfer (N2101)	Thermal Measurements and Process Controls (N2102)	<b>Elective-III</b> Equipment Design for Thermal Systems (N2103) Solar Energy Technologies (N2104), Advanced Power Plant Engineering (N2105), Combustion, Emissions and Environment (N2106)	<b>Elective-IV</b> Jet Propulsion and Rocket Engineering (N2107), Automotive Engineering (N2108), Modeling of I.C engines (N2109), Renewable Energy Technologies (N2110)
<b>Mechanical</b> <b>Thermal Sciences and Energy Systems</b> (18)	Solar Energy and Fuel Cell Technologies (N1801)	Energy Conservation and Management (N1802)	<b>Elective-III</b> Energy Systems Modeling and Analysis (N1803), Energy Economics and Planning (N1804), Optimization Techniques and Applications (N1805), Biomass, Wind and Ocean Energy (N1806)	<b>Elective-IV</b> Waste Heat Recovery Systems (N1807), Design of Heat Transfer Equipment (N1808), Combustion, Emissions and Environment (N1809), Green Buildings (N1810)
<b>Mechanical</b> <b>Machine Design/Mechanical Engineering Design</b> (15)/(14)	Advanced Finite Element Methods (N1303)	Advanced Machine Design (N1501)	<b>Elective-III</b> Theory of Plasticity (N1502), Signal Analysis and Condition Monitoring (N1503), Computational Fluid Dynamics (N1504), Composite Materials (N1505), Soft Computing (N1506), Computer Aided Mechanical Design and Analysis (N1401)	<b>Elective-IV</b> Experimental Techniques and data analysis (N1507), Design with advanced Materials (N1508), Mechatronics (N1509), Tribology (N1510), Experimental Modal Analysis (N1511)



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<b>Mechanical</b> <b>CAD/CAM</b> <b>(04)</b>	Theory of Elasticity and Plasticity (N0901)	Advanced Manufacturing Processes (N0401)	<b>Elective-III</b> Advanced Finite Element Methods (N1303) Fracture mechanics (N0903) Product Design and Development (N0904)	<b>Elective-IV</b> Materials Characterization Techniques (N0905) Optimization & Reliability (N0906), Additive Manufacturing (N0907)
<b>Mechanical</b> <b>Advanced Manufacturing Systems</b> <b>(17)</b>	Simulation of Manufacturing Systems (N1701)	Computer Integrated Manufacturing (N1302)	<b>Elective-III</b> Finite Element Methods (N1303), Concurrent Engineering (N1304), MEMS & Micro systems (N1305)	<b>Elective-IV</b> Production and Operation Management (N1306), Advanced CNC Technologies (N1307), Supply Chain Management (N1308)
<b>Computer Aided Design &amp; Manufacturing (09)</b>	Theory of Elasticity and Plasticity (N0901)	Advanced Manufacturing Processes (N0902)	<b>Elective-III</b> Advanced Finite Element Methods (N1303), Fracture mechanics (N0903), Product Design and Development (N0904)	<b>Elective-IV</b> Materials Characterization Techniques (N0905), Optimization & Reliability (N0906), Additive Manufacturing (N0907)
<b>Mechanical</b> <b>Advanced Manufacturing and Mechanical System Design (13)</b>	Advanced Manufacturing Processes-II (N1301)	Computer Integrated Manufacturing (N1302)	<b>Elective - III</b> Finite Element Methods (N1303), Concurrent Engineering (M1304), MEMS & Micro systems (N1305)	<b>Elective - IV</b> Production and Operation Management (N1306), Advanced CNC Technologies (N1307), Supply Chain Management (N1308)



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<b>Automobile Engineering</b>  (AA)	Vehicle Body Engineering (NAA01)	Vehicle Dynamics (NAA02)	<b>Elective III</b> Noise, Vibrations and Harshness (NAA03), Condition Monitoring (NAA04), Automotive Air-Conditioning Systems (NAA05), Automotive System Components Design (NAA06)	<b>Elective IV</b> Advanced Metal Forming (NAA07), Automotive Safety and Maintenance (NAA08), Advanced Finite Element Methods (N1303), Vehicle Control Systems (NAA09), Simulation of Vehicle Systems (NAA10)
<b>Mechanical</b>  <b>Computer Aided Analysis &amp; Design</b> (16)	Optimization and Reliability (N0906)	Advanced Mechanisms (N1601)	<b>Elective III</b> Fracture mechanics (N0903), Advanced Finite Element Methods (N1303), Design for Manufacturing (N1602)	<b>Elective IV</b> Industrial Robotics (N1603), Tribology in Design (N1510), Rapid Prototyping & Tool Design (N1604)
<b>Mechanical</b>  <b>Mining Engineering</b> (BB)	Mine Safety Management (NBB01)	Mine Ventilation and Planning (NBB02)	<b>Elective III</b> Surface Mine Environmental Engineering (NBB03), Mine System Engineering (NBB04), Sustainable Mining Industry (NBB05)	<b>Elective IV</b> Geo- Statistics (NBB06), Advance Underground Mine Planning and Design (NBB07), Numerical Methods in Geotechnical Engineering (NBB08)
<b>Petroleum Engineering</b> (08)	Artificial Lift Techniques. (N0801)	Reservoir Modeling & Simulation. (N0802)	<b>Elective III</b> Advanced EOR Techniques (N0803), Advanced well completions (N0804)	<b>Elective IV</b> Flow Assurance (N0805), Advanced horizontal well technology (N0806)

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ECE  VLSI&EMBEDED SYSTEMS/ EMBEDED SYSTEMS & VLSI /VLSID&ES/ES&VLS ID (68,48,77,81)	Analog and Digital CMOS VLSI Design (N6801)	Real Time Operating Systems (N5502)	<b>Elective-III</b> Memory Architectures (N5503)  SoC Design (N5504)  Low power VLSI Design (N6802)	<b>Elective-IV</b> Communication Buses and Interfaces (N5506) Network Security and Cryptography (N5507) Physical design automation (N5508)
ECE  VLSI/ VLSI Design/ VLSI System Design/ VLSI & Micro Electronics (57,72,61,76)	Mixed Signal & RF IC Design (N5701)	Physical Design Automation (N5508)	<b>Elective-III</b> Design For Testability (N5702), IOT & its Applications (N0601), VLSI Signal Processing (N5703)	<b>Elective-IV</b> Network Security & Cryptography (N5507), Microcontrollers & programmable Digital Signal Processors (N5704), Low Power VLSI Design (N5705)
ECE Communication Engineering & Signal Processing/ Communication & Signal Processing (46,80)	Pattern Recognition and Machine Learning (N4601)	Detection and Estimation Theory (N4602)	<b>Elective-III</b> IOT and Applications (N4603)  Wireless Sensors Networks (N4604)  Soft Computing Techniques (N4605)	<b>Elective-IV</b> Smart Antennas (N4606)  Biomedical Signal Processing (N4607)  Optical Networks (N4608)
ECE  Embedded Systems  (55)	Digital System Design (N5501)	Real Time Operating Systems (N5502)	<b>Elective-III</b> Memory Architectures (N5503)  SoC Design (N5504)  Sensors & Actuators (N5505)	<b>Elective-IV</b> Communication Buses and Interfaces (N5506)  Network Security and Cryptography (N5507)  Physical design automation (N5508)



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ECE  Digital Systems & Computer Electronics (DSCE)  (06)	Internet Of Things & Applications (N0601)	DSP Processors & Architecture (N4706)	Elective-III System On Chip Design (N0602)  Soft Computing Techniques (N4605)  Cyber Security (N4704)	Elective-IV Embedded Real Time Operating Systems (N0603)  High Speed Networks (N0604)  EMI/EMC (N3703)
ECE  Digital Electronics & Communication Engineering/Digital Electronics And Communication Systems/ Electronics & Communication Engineering  (37,38,70)	Image and Video Processing (N4702)	Wireless Communications and Networks (N4701)	Elective-III CMOS Analog & Digital IC Design (N3701) Advanced Computer Architecture (N3702) Soft Computing Techniques (N4605)	Elective-IV DSP Processors and Architectures (N4706)  EMI/ EMC (N3703)  Object Oriented Programming (N3704)
ECE  Communication Systems  (47)	Wireless Communications and Networks (N4701)	Image and Video Processing (N4702)	Elective-III Soft Computing Techniques (N4605), Internet Protocols (N4703), Cyber Security (N4704)	Elective-IV Optical Networks (N4705), DSP Processors and Architectures (N4706), Radio and Navigational Aids (N4707)



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<b>ECE</b> <b>System Signal Processing/Digital Image Processing (45,63)</b>	Pattern Recognition and Machine Learning (N4601)	Detection and Estimation Theory (N4602)	<b>Elective-III</b> IOT and Applications (N4603) Wireless Sensors Networks (N4604) Soft Computing Techniques (N4605)	<b>Elective-IV</b> Audio/Vedio coding and compression (N4501) Biomedical Signal Processing (N4607) Optical Networks (N4608)

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BRANCH & SPECIALIZATION	12-09-2022 (Monday)	13-09-2022 (Tuesday)	14-09-2022 (Wednesday)	15-09-2022 (Thursday)
<p><b>EEE</b></p> <p>Power Systems/ Power System Control and Automation/ Electrical Power Engineering/Electrical Power Systems/Power System Engineering/PS &amp; C/Advanced Power System (50)/Power Engineering &amp; Energy/Systems/ Power System Auto Machine</p> <p>(56,53,50,60,65,30,31,66)</p>	<p>Power System Dynamics and Stability (N9904)</p>	<p>Real Time Control of Power Systems (N9901)</p>	<p><b>Elective-III</b> EHVAC Transmission (N6207) Flexible AC Transmission Systems (N6206) Hybrid Electric Vehicles (N4304)</p>	<p><b>Elective-IV</b> Generation &amp; Measurement of High Voltages (N5601) Evolutionary Algorithms and Applications (N5602) Programmable Logic Controllers &amp; Applications (N5603)</p>
<p><b>EEE</b></p> <p>Power Electronics/ Power and Industrial Drives/ Power Electronics and Electrical Drives/ Power Electronics and Drives/ Electrical Machines and Drives/Power Electronics &amp; Systems</p> <p>(43,42,54,52,44,12)</p>	<p>Switched Mode Power Conversion (N4301)</p>	<p>Power Electronic Control of Electrical Drives (N4302)</p>	<p><b>Elective-III</b> Control &amp; Integration of Renewable Energy Systems (N4303) Hybrid Electric Vehicles (N4304) Digital Control Systems (N4305)</p>	<p><b>Elective-IV</b> Advanced Digital Signal Processing (N9503) Applications of Power Converters (N4306) Microcontrollers (N4307)</p>
<p><b>EEE</b></p> <p>Power Electronics &amp; Power Systems</p> <p>(99)</p>	<p>Switched Mode Power Conversion (N4301)</p>	<p>Real Time Control of Power Systems (N9901)</p>	<p><b>Elective-III</b> Electrical Machine Modeling &amp; Analysis (N9902), DSP Controlled Drives (N9903), Application of Power Converters (N4306)</p>	<p><b>Elective-IV</b> EHVAC Transmission (N6207), Flexible AC Transmission Systems (N6206), Power System Dynamics &amp; Stability (N9904)</p>



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BRANCH & SPECIALIZATION	12-09-2022 (Monday)	13-09-2022 (Tuesday)	14-09-2022 (Wednesday)	15-09-2022 (Thursday)
EEE High Voltage Engineering/ Power Systems with Emphasis on High Voltage Engineering (62,29)	High Voltage Testing Techniques (N6201)	Surge Phenomenon & Insulation Coordination (N6202)	<b>Elective-III</b> Partial Discharge in HV Equipment (N6203), Gas Insulated Systems and Substations (N6204), Pulse Power Engineering (N6205)	<b>Elective-IV</b> Flexible AC Transmission Systems (N6206), EHVAC Transmission (N6207), Smart Grid Technologies (N6208)
EEE Control Systems/Control Engineering (95,28)	Non-Linear Systems Analysis (N9501)	Optimal Control Theory (N9502)	<b>Elective-III</b> Digital Signal Processing (N9503), Robotics and Control (N9504), Large scale systems (N9505)	<b>Elective-IV</b> Process Control and Automation (N9506), Decision and Estimation Theory (N9507), Embedded Computer Control (N9508)
EEE High Voltage Power Systems Engineering (64)	High Voltage Testing Techniques (N6201)	Surge Phenomenon & Insulation Coordination (N6202)	<b>Elective-III</b> Partial Discharge in HV Equipment (N6203), Gas Insulated Systems and Substations (N6204), Pulse Power Engineering (N6205)	<b>Elective-IV</b> Flexible AC Transmission Systems (N6206), EHVAC Transmission (N6207), Smart Grid Technologies (N6208)

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