



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

**M.TECH II SEMESTER (R19 REGULATION) I MID EXAMINATIONS, AUGUST - 2021**

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

**TIME : 10.00 AM to 12.00 NOON**

<b>BRANCH &amp; SPECIALIZATION</b>	<b>23-08-2021 (Monday)</b>	<b>24-08-2021 (Tuesday)</b>	<b>25-08-2021 (Wednesday)</b>	<b>26-08-2021 (Thursday)</b>
<b>Civil Transportation Engineering  (22)</b>	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 (19)/(20)</b>	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 (23)</b>	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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<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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<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 Thermal Engineering (21)</b>	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 Thermal Sciences and Energy Systems (18)</b>	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 Machine Design/Mechanical Engineering Design (15)/(14)</b>	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 CAD/CAM (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 Advanced Manufacturing Systems (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 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 (AA)</b>	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 Computer Aided Analysis &amp; Design (16)</b>	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 Mining Engineering (BB)</b>	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 (08)</b>	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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<b>ECE</b> <b>VLSI&amp;EMBEDED SYSTEMS/ EMBEDED SYSTEMS &amp; VLSI /VLSID&amp;ES/ES&amp;VLS ID (68,48,77,81)</b>	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)
<b>ECE</b> <b>VLSI/ VLSI Design/ VLSI System Design/ VLSI &amp; Micro Electronics (57,72,61,76)</b>	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)
<b>ECE</b> <b>Communication Engineering &amp; Signal Processing/ Communication &amp; Signal Processing (46,80)</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> Smart Antennas (N4606)  Biomedical Signal Processing (N4607)  Optical Networks (N4608)
<b>ECE</b> <b>Embedded Systems (55)</b>	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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<b>ECE</b> <b>Digital Systems &amp; Computer Electronics (DSCE)</b> <b>(06)</b>	Internet Of Things & Applications (N0601)	DSP Processors & Architecture (N4706)	<b>Elective-III</b> System On Chip Design (N0602) Soft Computing Techniques (N4605) Cyber Security (N4704)	<b>Elective-IV</b> Embedded Real Time Operating Systems (N0603) High Speed Networks (N0604) EMI/EMC (N3703)
<b>ECE</b> <b>Digital Electronics &amp; Communication Engineering/Digital Electronics And Communication Systems/ Electronics &amp; Communication Engineering</b> <b>(37,38,70)</b>	Image and Video Processing (N4702)	Wireless Communications and Networks (N4701)	<b>Elective-III</b> CMOS Analog & Digital IC Design (N3701) Advanced Computer Architecture (N3702) Soft Computing Techniques (N4605)	<b>Elective-IV</b> DSP Processors and Architectures (N4706) EMI/ EMC (N3703) Object Oriented Programming (N3704)
<b>ECE</b> <b>Communication Systems</b> <b>(47)</b>	Wireless Communications and Networks (N4701)	Image and Video Processing (N4702)	<b>Elective-III</b> Soft Computing Techniques (N4605), Internet Protocols (N4703), Cyber Security (N4704)	<b>Elective-IV</b> 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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<b>EEE</b>  <b>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</b>  <b>(56,53,50,60,65,30,31,66)</b>	Power System Dynamics and Stability <b>(N9904)</b>	Real Time Control of Power Systems <b>(N9901)</b>	<b>Elective-III</b> EHVAC Transmission <b>(N6207)</b>  Flexible AC Transmission Systems <b>(N6206)</b>  Hybrid Electric Vehicles <b>(N4304)</b>	<b>Elective-IV</b> Generation & Measurement of High Voltages <b>(N5601)</b>  Evolutionary Algorithms and Applications <b>(N5602)</b>  Programmable Logic Controllers & Applications <b>(N5603)</b>
<b>EEE</b>  <b>Power Electronics/ Power and Industrial Drives/ Power Electronics and Electrical Drives/ Power Electronics and Drives/ Electrical Machines and Drives/Power Electronics &amp; Systems</b>  <b>(43,42,54,52,44,12)</b>	Switched Mode Power Conversion <b>(N4301)</b>	Power Electronic Control of Electrical Drives <b>(N4302)</b>	<b>Elective-III</b> Control & Integration of Renewable Energy Systems <b>(N4303)</b>  Hybrid Electric Vehicles <b>(N4304)</b>  Digital Control Systems <b>(N4305)</b>	<b>Elective-IV</b> Advanced Digital Signal Processing <b>(N9503)</b>  Applications of Power Converters <b>(N4306)</b>  Microcontrollers <b>(N4307)</b>
<b>EEE</b>  <b>Power Electronics &amp;</b>	Switched Mode Power Conversion <b>(N4301)</b>	Real Time Control of Power Systems <b>(N9901)</b>	<b>Elective-III</b> Electrical Machine Modeling &	<b>Elective-IV</b> EHVAC Transmission <b>(N6207)</b> , Flexible AC Transmission Systems



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<b>Power Systems</b> <b>(99)</b>			Analysis (N9902), DSP Controlled Drives (N9903), Application of Power Converters (N4306)	(N6206), Power System Dynamics & Stability (N9904)
<b>BRANCH &amp; SPECIALIZATION</b>	<b>23-08-2021</b> <b>(Monday)</b>	<b>24-08-2021</b> <b>(Tuesday)</b>	<b>25-08-2021</b> <b>(Wednesday)</b>	<b>26-08-2021</b> <b>(Thursday)</b>
<b>EEE</b> <b>High Voltage Engineering/ Power Systems with Emphasis on High Voltage Engineering</b> <b>(62,29)</b>	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)
<b>EEE</b> <b>Control Systems/Control Engineering</b> <b>(95,28)</b>	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)
<b>EEE</b> <b>High Voltage Power Systems Engineering</b> <b>(64)</b>	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)

- 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

*Signature*



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA**  
**UNIVERSITY EXAMINATION CENTER, KAKINADA**  
**M.TECH II SEMESTER (R19 REGULATION) I MID EXAMINATIONS, AUGUST - 2021**

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

**TIME : 10.00 AM to 12.00 NOON**

**Date: 11-08-2021**

**Controller of Examinations**