

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

**M.TECH I SEMESTER (R13) SUPPLEMENTARY EXAMINATIONS – JAN/FEB, 2018
(2014 & 2015 ADMITTED BATCHES)**

T I M E T A B L E

TIME: 10:00 AM TO 01:00 PM

| BRANCH & SPECIALIZATION | 30.01.2018 (Tuesday) | 01.02.2018 (Thursday) | 03.02.2018 (Saturday) | 05.02.2018 (Monday) | 07.02.2018 (Wednesday) | 09.02.2018 (Friday) | 12.02.2018 (Monday) | 14.02.2018 (Wednesday) | 16.02.2018 (Friday) |
|---|-----------------------------------|---|--|---|--|--|--------------------------------|-----------------------------------|--------------------------------|
| Civil Transportation Engineering (22) | Applied Mathematics (G2201) | Pavement Analysis Design and Evaluation (G2202) | Traffic Engineering (G2203) | Urban Transportatio n Planning (G2204) | Elective-I Bridge Engineering (G2205) Elective-I Project Management (G2206) | Elective-II GIS for Transportation (G2207) Elective-II Pavement Management System (G2208) | ---- | ----- | ----- |
| Civil Structural Engineering/Stru ctural Design (87)/(85) | Applied Mathematics (G2201) | Theory of Elasticity (G8701) | Matrix Analysis of Structures (G8702) | Structural Dynamics (G8703) | Elective-I Experimental Stress Analysis (G8704) Elective-I Sub-Structure Design (G8705) Elective-I Structural Optimization (G8706) | Elective-II Repair and Rehabilitation of Structures (G8707) Elective-II Analysis and Design of Tall Buildings (G8708) Elective-II Plastic Analysis and Design (G8709) | ---- | ---- | ---- |

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|--|--|--------------------------------------|--|---------------------------------------|--|---|--------------------------------|-----------------------------------|--------------------------------|
| Civil Soil Mechanics & Foundation Engineering / Geo-Technical Engineering (19)/(20) | Advanced Applied Mathematics (G1911) | Advanced Soil Mechanics (G1901) | Foundation Engineering - I (G1902) | Ground Improvement Techniques (G1903) | Elective-I Designing with Geosynthetics (G1904) Elective-I Soil-Foundation Interaction. (G1905) Elective-I Critical State Soil Mechanics (G1906) | Elective-II Earth Dams (G1907) Elective-II Rock Mechanics (G1908) Elective-II Remote Sensing and Geographical Information Systems (G1909) | ---- | ---- | ---- |
| Civil Geoinformatics (74) | Geo-Informatics Tools & Techniques (G7401) | Principles of Remote Sensing (G3202) | Geographical Information Systems (G3203) | Earth Systems (G7402) | Object Oriented Programming Through JAVA (G3205) | Elective-I Data Base Management Systems (G3206) Elective-I Principles of Geo-Data Base (G3207) Elective-I Web Technologies (G3208) | ---- | ---- | ---- |

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|--|---|---|---|--|---|---|--------------------------------|-----------------------------------|--------------------------------|
| Civil Spatial Information Technology (32) | Principles of Photogrammetry (G3201) | Principles of Remote Sensing (G3202) | Geographical Information Systems (G3203) | Digital Image Processing (G3204) | Object Oriented Programming Through JAVA (G3205) | Elective-I Data Base Management Systems (G3206) Elective-I Principles of Geo-Data Base (G3207) Elective-I Web Technologies (G3208) | ---- | ---- | ---- |
| Civil Highway Engineering (23) | Highway Infrastructure Engineering (G2301) | Pavement Material Characterization (G2302) | Traffic Engineering (G2203) | Urban Transportation Planning (G2204) | Elective – I Applied Statistics (G2303) Project Management (G2206) Bridge Engineering (G2304) | Elective – II Remote Sensing & Global Positioning System (G2305) Engineering of Ground (G2306) Concrete Technology (G2307) | ---- | ---- | ---- |

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|---|--|------------------------------|---|---------------------------------|--|---|------------------------|---------------------------|------------------------|
| Civil Computer Aided Structural Engineering (35) | Computer Aided Numerical Methods (G3501) | Theory of Elasticity (G3503) | Matrix Methods of Structural Analysis (G3502) | C++ and Data Structures (G3504) | Elective – I Experimental Stress Analysis (G3505) Optimization in Structural Design (G3506) Structural Health Monitoring (G3507) | Elective – II Modeling, Simulation & Computer Applications (G3508) Prestressed Concrete Structures (G3509) Structural Stability (G3510) | ---- | ---- | ---- |

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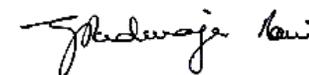
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|---|---|--|--|---|------------------------------------|---|--------------------------------|-----------------------------------|--------------------------------|
| CSE Information Technology/ Computer Science &Technology (40)/ (59) | Advanced Data Structures (G4001) | Advanced Graph Theory (G4002) | Parallel Algorithms (G4003) | Data Mining and Knowledge Discovery (G4004) | Advanced Computer Networks (G4005) | Distributed Programming Applications Through JAVA (G4006) | --- | --- | --- |
| CSE Computer Science (05) | Data Structures (G4001) | Mathematical Foundations of Computer Science (G0501) | Computer Organization (G0502) | Data Base Management Systems (G0503) | Operating System (G0504) | Data Communications and Computer Networks (G0509) | --- | --- | --- |
| CSE Computer Science & Engineering (58) | Advanced Data Structures and Algorithm Analysis (G4001) | Mathematical Foundations of Computer Science (G0501) | Computer Organization and Architecture (G0502) | Data Base Management Systems (G0503) | Operating System (G0504) | Software Engineering (G0505) | --- | --- | --- |

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|--|---|---|---|--|--------------------------------|---------------------------------------|-----------------------------------|---------------------------|------------------------|
| CSE Computer Networks & Information Security (84) | Computer Communications (G8401) | Information Security (G8402) | | ADHOC and Sensor Networks (G8404) | Mobile Computing (G2505) | Middleware Technologies (G2506) | Network Programming (G8405) | --- | --- |
| CSE Software Engineering (25) | Software Requirements and Estimation (G2501) | Software Metrics and Reuse (G2502) | Software Project and Process Management (G2503) | Web Technologies (G2504) | Mobile Computing (G2505) | Middleware Technologies (G2506) | --- | --- | --- |
| CSE Neural Networks (69) | Artificial Intelligence | Dataware Housing and Datamining | Natural Language Processing | Web Technologies | Image Processing | Pattern Recognition | --- | --- | --- |
| CSE Computer Networks (88) | Computer Communications (G8401) | Information Security (G8402) | --- | ADHOC and Sensor Networks (G8404) | Mobile Computing (G2505) | Middleware Technologies (G2506) | Network Programming (G8405) | --- | --- |

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|---|---|--|--|--|--|--|---|-----------------------------------|--------------------------------|
| <p align="center">Mechanical</p> <p align="center">Advanced Manufacturing and Mechanical System Design (13)</p> | <p align="center">Elective – I</p> <p align="center">Industrial Robotics (G0401)</p> <p align="center">Mechanics of Composites (G1305)</p> | <p align="center">Interactive Computer Graphics & Design (G1302)</p> | <p align="center">Optimization Techniques & Applications (G1303)</p> | <p align="center">Advanced in CNC Technologies (G1304)</p> | <p align="center">Total Quality Management (G1704)</p> | <p align="center">Elective – II</p> <p align="center">Advanced CAD (G1705)</p> <p align="center">Mechatronics (G0406)</p> <p align="center">Quality Engineering in Manufacturing (G1306)</p> | <p align="center">Production Automation & CIM (G1301)</p> | ---- | ---- |
| <p align="center">Mechanical</p> <p align="center">Machine Design/Mechanical Engineering Design (15)/(14)</p> | <p align="center">Design With Advanced Materials (G1505)</p> | <p align="center">Advanced Mechanics of Solids (G1502)</p> | <p align="center">Advanced Mechanisms (G1503)</p> | <p align="center">Elective-I Geometric Modeling (G1508)</p> | <p align="center">Computational Methods in Engineering (G1501)</p> | <p align="center">Elective-I Design of Automobile Systems (G1506)</p> <p align="center">Elective-I Product Design (G1507)</p> <p align="center">Elective-I Non Destructive Evaluation (G1509)</p> | <p align="center">Mechanical Vibrations (G1504)</p> | ---- | ---- |

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|---|---|---|--|--|--|--|---|---|--------------------------------|
| Mechanical CAD/CAM (04) | Industrial Robotics (G0401) | Computer Aided Manufacturing (G0402) | Special Manufacturing Processes (G0403) | Geometric Modeling (G1508) | Elective-I Computational Methods In Engineering (G1501) | Elective-II Design for Manufacturing (G0405) Elective-II Mechatronics (G0406) Elective-II Computer Aided Process Planning (G0407) | Elective-I Mechanical Vibrations (G1504) | Elective-I Nano Technology (G0404) | ---- |
| Mechanical Advanced Manufacturing Systems (17) | Elective-I Industrial Robotics (G0401) | Computer Aided Manufacturing (G0402) | Special Manufacturing Processes (G0403) | Design for Manufacturing and Assembly (G1702) | Elective-I Total Quality Management (G1704) | Elective-II Advanced CAD (G1705) Elective-II Mechatronics (G0406) Elective-II Precision Engineering (G1706) | Automation in Manufacturing (G1701) | Product Data Management (G1703) | ---- |

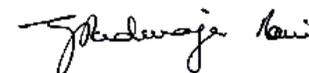
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|--|---|--|--|--|---|--|--------------------------------|--|--------------------------------|
| Mechanical Thermal Sciences and Energy Systems (18) | Elective – II Design of Heat Transfer Equipment (G1806) Combustion in IC Engines (G1807) Advanced Finite Element Methods (G1808) | Advanced Thermodynamics (G1801) | Advanced Heat Transfer (G2103) | Advanced Fluid Mechanics (G2104) | Computational Methods in Engineering (G1501) | Elective – I Computational Fluid Dynamics (G1802) Refrigeration & Cryogenics (G1803) Thermal & Nuclear Power Plants (G1804) Gas Turbines & Jet Propulsion (G1805) | ---- | Elective – II Nano Technology (G0404) | ---- |
| Nano Technology (96) | Quantum Mechanics (G9601) | Synthesis of Nano materials (G9602) | Carbon Nano Structures and its Applications (G9603) | Properties of Nano Structures (G9604) | Computational Nano Technology (G9605) | Elective-I Surface Engineering and Advanced Catalysis (G9606) Elective-I Nanotechnology for Energy Systems (G9607) Nano Fluids (G9608) | ---- | ---- | ---- |

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| Mechanical Thermal Engineering (21) | Optimization Techniques & Applications G2101 | Advanced Thermodynamics G2102 | Advanced Heat & Mass Transfer G2103 | Advanced Fluid Mechanics G2104 | Elective-I GAS Dynamics G2105 Refrigeration & Air Conditioning G2106 Renewable Energy Technologies G2107 Theory and Technologies of Fuel Cells G2108 | Elective-II Advanced IC Engines G2109 Solar Energy Technology G2110 Turbo Machines G2111 Alternative Fuels Technologies G2112 | ---- | ---- | ---- |
| Mechanical Aerospace Engineering (41) | Mathematical Modeling G41101 | Engineering Analysis of Flight Vehicles G41102 | Continuum Mechanics G41103 | Air Transportation Systems G41104 | Elective-I Fundamentals of Aerospace Engineering G41105 Aerodynamics of Flight Vehicles G41106 Flight Vehicle Structures G41107 Air-breathing Propulsion G41108 Aircraft Systems G41109 | Elective-II Modeling and Simulation of Fluid Flows G41110 Computational Structural Analysis G41111 Flight Navigation and Surveillance Systems G41112 Airlines Operations and Scheduling G41113 Rotorcraft Aerodynamics G41114 | ---- | ---- | ---- |

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|---|--|---|---|---|---|---|--|-----------------------------------|--------------------------------|
| Bio Technology (03) | Microbial Technology G0301 | Bio Separation Technology G0302 | Bioprocess Engineering G0303 | Bioinformatics G0304 | Recombinant DNA Technology G0305 | Immunotechnolog y G0306 | --- | --- | --- |
| Petroleum Engineering (08) | Advanced Numerical Methods and Applied Statistics (G0801) | PE Stream: Offshore Drilling (G0802) | Non-PE Stream: A Fundamentals of Petroleum Geology & Reservoir Engineering (G0803) | PE Stream: Reservoir Stimulation (G0804) | Non-PE Stream: Petroleum Drilling & Production Engineering (G0805) | Transportation of Oil and Gas (G0806) | Advanced EOR Techniques (G0807) | Project Management (G0808) | --- |

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|---|---|---|---|--|--|---|---|---|---|
| ECE VLSI&EMBEDED SYSTEMS/ EMBEDED SYSTEMS & VLSI /VLSID&ES/ES&VLSID (68,48,77,81) | CPLD and FPGA Architectures and Applications (G6804) | VLSI Technology and Design (G6802) | Microcontrollers for Embedded System Design (G6801) | CMOS Analog IC Design (G6803) | Elective-II CMOS Digital IC Design (G6809) Elective-II Network Security and Cryptography (G6810) | Elective-II Advanced Operating Systems (G6808) | Elective-I Digital System Design (G6806) | Elective-I Hardware Software Co- Design (G6805) | Elective-I Soft Computing Techniques (G6807) |
| ECE VLSI/ VLSI Design/ VLSI System Design/ VLSI & Micro Electronics (57,72,61,76) | CPLD and FPGA Architectures and Applications (G6804) | VLSI Technology and Design (G6802) | Elective-II Digital Design using HDL (G5701) Elective-II Advanced Computer Architecture (G5702) | CMOS Analog IC Design (G6803) | CMOS Digital IC Design (G6809) | Elective-I Advanced Operating Systems (G6808) | Elective-I Digital System Design (G6806) | Elective-II Hardware Software Co- Design (G6805) | Elective-I Soft Computing Techniques (G6807) |

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|---|--|------------------------------------|---|--|---|---|--|---|--|
| ECE Digital Systems & Computer Electronics (DSCE) (06) | ---- | VLSI Technology and Design (G6802) | Elective-I Wireless Communication and Networks (G0601) Elective-I Digital Design using HDL (G5701) | Advanced Computer Architecture (G5505) | Elective-II Network Security and Cryptography (G6810) Elective-II System Modeling and Simulation (G0602) | ---- | Digital System Design (G0604) | Embedded Real Time Operating Systems (G4507) | ---- |
| ECE Embedded Systems (55) | Embedded -C (G5502) | Embedded System Design (G5501) | Microcontrollers for Embedded System Design (G6801) | Elective-I Advanced Computer Architecture (G5505) | Elective-I Network Security and Cryptography (G6810) | Elective-II Advanced Operating Systems (G6808) Elective-II Embedded Computing (G5503) | Elective-I Digital System Design (G6806) | Embedded Real Time Operating Systems (G4507) | Elective-II Soft Computing Techniques (G6807) |
| ECE Systems & Signal Processing/ Digital Image Processing/ Communication Engineering & Signal Processing/C&SP/SP&C (45,63,46,8036) | Coding Theory and Applications (G4501) | Transform Techniques (G4502) | Advanced Digital Signal Processing (G4503) | Digital Data Communications (G4504) | Elective-I Network Security and Cryptography (G6810) | Elective-I Statistical Signal Processing (G4505) Elective-I Pattern Recognition Principles (G4506) | Elective-II Object Oriented Programming (G4508) | Elective-II Embedded and Real Time Systems (G4507) | Elective-II Soft Computing Techniques (G6807) |

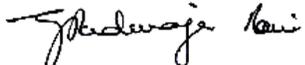
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|---|---|---|---|--|--|--|---|--|--------------------------------|
| ECE Digital Electronics And Communication Systems/ Electronics & Communication Engineering/ (38,70) | Elective-II Optical Communication Technology (G3801) | Elective-I VLSI Technology and Design (G6802) Elective-I Transform Techniques (G4502) | Advanced Digital Signal Processing (G4503) | Digital Data Communications (G4504) | --- | Elective-II Statistical Signal Processing (G4505) | Digital System Design (G6806) | Detection & Estimation Theory (G8205) | --- |
| ECE Communication Systems (47) | Optical Communication Technology (G3801) | --- | Advanced Digital Signal Processing (G4503) | Digital Data Communications (G4504) | Elective-II Network Security and Cryptography (G6810) Elective-II Wireless LAN & PANS (G4702) Elective-II Mobile Computing Technologies (G4703) | Elective-I RF Circuit Design (G8207) | Elective-I Radar Signal Processing (G8206) Elective-I Advanced Computer Networks (G4701) | Detection & Estimation Theory (G8205) | --- |

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|--|--|---|---|-------------------------------------|---|---|---|--|---|
| ECE MICROWAVE AND COMMUNICATION ENGINEERING (82) | Advanced Electro Magnetic Theory (G8201) | Advanced Antenna Theory & Design (G8202) | Elective-I Advanced Digital Signal Processing (G4503) Elective-I Microwave Integrated Circuits (G8204) | Digital Data Communications (G4504) | Microwave Components & Measurements (G8203) | Elective-II RF Circuit Design (G8207) | Elective-II Radar Signal Processing (G8206) | Elective-I Detection & Estimation Theory (G8205) | Elective-II Soft Computing Techniques (G6807) |
| ECE DIGITAL ELECTRONICS COMMUNICATION ENGINEERING (37) | Elective-II Optical Communication Technology (G3801) | Elective-I VLSI Technology and Design (G6802) Elective-I Transform Techniques (G4502) | Advanced Digital Signal Processing (G4503) | Digital Data Communications (G4504) | ---- | Elective-II Statistical Signal Processing (G4505) | Digital System Design (G6806) | Detection & Estimation Theory (G8205) | ---- |

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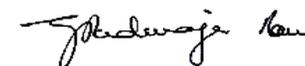
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| EEE High Voltage Engineering/ High Voltage Power Systems (62,64) | Dielectric and Insulation Engineering (G6101) | Elective-I Advanced Digital Signal Processing (G5611) | ---- | Power System Operation and Control (G5603) | Elective-I Smart Grid (G6202) Elective-I Breakdown Phenomenon in Electrical Insulation (G6203) | Elective-II High Voltage Power Apparatus & Diagnostics (G6204) Elective-II Collision Phenomena in Plasma Science (G6205) Elective-II Advanced EM Fields (G6206) | HVDC Transmission (G5602) | Generation & Measurement of High Voltages (G5612) | Elective-I Artificial Intelligence Techniques (G5609) |
| EEE Power Systems/ Power System Control and Automation/ Electrical Power Engineering/Electrical Power Systems (56,53,60,65) | Microprocessors & Microcontrollers (G5601) | Elective-II Advanced Digital Signal Processing (G5611) | Reactive Power Compensation & Management (G5604) | Power System Operation and Control (G5603) | Elective-I Electrical Distribution Systems (G5605) Elective-I HVAC Transmission (G5606) Elective-I Analysis of Power Electronics Converters (G5607) Elective-I Renewable Energy Systems (G5608) | Elective-II Power System Security (G5610) Elective-II Programmable Logic Controllers & Applications (G5613) | HVDC Transmission (G5602) | Elective-II Generation & Measurement of High Voltages (G5612) Elective-II Modern Control Theory (G5614) | Elective-I Artificial Intelligence Techniques (G5609) |

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|--|---|--|--|--|---|---|--|---|---|
| <p>EEE</p> <p>Power Electronics/ Power and Industrial Drives/ Power Electronics and Electrical Drives/ Power Electronics and Drives/ Electrical Machines and Drives</p> <p>(43,42,54,52,44)</p> | <p>Analysis of Power Electronic Converters (G4302)</p> | <p>Electrical Machine Modeling & Analysis (G4301)</p> | <p>Electric Drives-I (G4303)</p> | <p>Flexible AC Transmission Systems (G4304)</p> | <p>Elective-II Energy Auditing, Conservation and Management (G4307)</p> | <p>Elective-I Power Quality (G4305)</p> <p>Elective-I Optimization Techniques (G4306)</p> | <p>Elective-II HVDC Transmission (G5602)</p> | <p>Elective-I Modern Control Theory (G5614)</p> | <p>Elective-II Artificial Intelligence Techniques (G4308)</p> |
| <p>EEE</p> <p>Power Electronics & Power Systems</p> <p>(99)</p> | <p>Analysis of Power Electronic Converters (G4302)</p> | <p>Digital Controllers (G9901)</p> | <p>Reactive Power Compensation & Management (G5604)</p> | <p>----</p> | <p>Elective-I Renewable Energy Systems (G5608)</p> | <p>Elective-II Power Quality (G4305)</p> <p>Elective-II Optimization Techniques (G4306)</p> <p>Elective-II Power Semiconductor Devices & Protection (G9902)</p> | <p>HVDC Transmission (G5602)</p> | <p>Elective-I Modern Control Theory (G5614)</p> | <p>Elective-I Artificial Intelligence Techniques (G4308)</p> |

| BRANCH & SPECIALIZATION | 30.01.2018 (Tuesday) | 01.02.2018 (Thursday) | 03.02.2018 (Saturday) | 05.02.2018 (Monday) | 07.02.2018 (Wednesday) | 09.02.2018 (Friday) | 12.02.2018 (Monday) | 14.02.2018 (Wednesday) | 16.02.2018 (Friday) |
|---|--|--|--|---|--|--|--------------------------------|--|---|
| EEE Control Systems, (95) | Advanced Control Theory (G9501) | Advanced Digital Control Systems (G9502) | Stochastic Estimation and Control (G9503) | System and Parameter Identification (G9504) | Elective-I Computer Controlled Systems (G9505) Elective-I Control of Special Machines (G9506) | Elective-II Micro Controller & Applications (G9507) Elective-II Process Control and Automation (G9508) | ---- | ---- | ---- |
| EEE ADVANCED POWER SYSTEM (50) | Microprocessors & Microcontrollers (G5601) | Elective-II Advanced Digital Signal Processing (G5611) | Reactive Power Compensation & Management (G5604) | Power System Operation and Control (G5603) | Elective-I Electrical Distribution Systems (G5605) Elective-I HVAC Transmission (G5606) Elective-I Analysis of Power Electronics Converters (G5607) Elective-I Renewable Energy Systems (G5608) | Elective-II Power System Security (G5610) Elective-II Programmable Logic Controllers & Applications (G5613) | HVDC Transmission (G5602) | Elective-II Generation & Measurement of High Voltages (G5612) Elective-II Modern Control Theory (G5614) | Elective-I Artificial Intelligence Techniques (G5609) |

NOTE:

- (i) Any omissions or clashes in this Time Table may please be informed to the Controller of Examinations immediately.
- (ii) Even if Government declares holiday on any of the above dates, the examinations will be conducted as usual.
- (iii) The Principals are requested to inform the University, if any other substitute subjects that are not included in the above time table immediately



Date: 12-01-2018

Controller of Examinations