

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA  
UNIVERSITY EXAMINATION CENTRE, KAKINADA- 533003**

**M.TECH II SEMESTER (R13) REGULATION/ SUPPLEMENTARY EXAMINATIONS – JUNE/JULY, 2018**  
**(2014 & 2015 ADMITTED BATCHES ONLY)**

**TIME TABLE**

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

BRANCHES AND SPECIALIZATIONS	26.06.2018 (Tuesday)	28.06.2018 (Thursday)	30.06.2018 (Saturday)	02.07.2018 (Monday)	04.07.2018 (Wednesday)	06.07.2018 (Friday)	09.07.2018 (Monday)	11.07.2018 (Wednesday)	13.07.2018 (Friday)	16.07.2018 (Monday)
<b>CIVIL STRUCTURAL ENGINEERING/ STRUCTURAL DESIGN (87/85)</b>	Earthquake Resistant Design (H8702)	<b>Elective – IV</b> Industrial Structures (H8708)  Bridge Engineering (H8709)  Earth Retaining Structures (H8710)	Stability of Structures (H8703)	Theory of Plates & Shells (H8704)	<b>Elective – III</b> Pre-stressed Concrete (H8705)  Mechanics of Composite Materials (H8706)  Fracture Mechanics (H8707)	Finite Element Method (H8701)	---	---	---	---
<b>CIVIL TRANSPOTA TION ENGINEERING (22)</b>	Transportatio n Economics & Project Appraisal (H2201)	Traffic Flow Analysis (H2202)	---		<b>Elective – III</b> Pavement Construction & Evaluation (H2205)  Environmental Impact Assessment (H2206)	<b>Elective – IV</b> Intelligent Transportation Systems (H2207)  Ground Improvement Techniques (H2208)	Land Use & Regional Transportati on Planning (H2203)	Transportati on Systems Managemen t (H2204)	---	---

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<b>CIVIL GEO INFORMATICS (74)</b>	Digital Image Processing (H3201)	Digital Photogrammetry (H7401)	Internet GIS (H3203)	Geodesy & GNSS (H3205)	Spatial Decision Support Systems (H7402)	<b>Elective – IV</b> Disaster Management (H3206) Data Warehousing & Data Mining (H3207) Advanced Surveying & Cartography (H3208) Remote Sensing and GIS Applications in Environment (H7403) Geo-Statistical Methods (H3210)	---	---	---	---
<b>CIVIL SOIL MECHANICS &amp; FOUNDATION ENGINEERING/ GEOTECHNICAL ENGINEERING (19 / 20)</b>	Foundation Engineering – II (H1901)	Earth Retaining Structures (H8710)	Soil Dynamics & Machine Foundations (H1902)	Construction in Expansive Soils (H1903)	<b>Elective – III</b> Pavement Analysis, Design and Evaluation (H1904) Construction Planning & Methods (H1905) Geotechnical Earth Quake Engineering (H1906)	<b>Elective – IV</b> Geo-Environmental Engineering (H1907) Numerical Methods in Geotechnical Engineering (H1908) Finite Element Methods (H8701)	---	---	---	---

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<b>CIVIL HIGH WAY ENGINEERING (23)</b>	Highway Project Formulation and Economics (H2301)	Traffic Analysis (H2304)	Pavement Analysis and Design (H2303)	Pavement Construction, Maintenance and Management (H2302)	<b>Elective – III</b> Road Safety Engineering (H2305)	<b>Elective – IV</b> Environmental Impact Assessment for Transportation (H2308) GIS Applications in Transportation Engineering (H2309) Optimization Techniques (H2310)	<b>Elective – III</b> Land use and Transportation Modeling (H2306)	<b>Elective – III</b> Transportation System Management (H2307)	---	---
<b>CIVIL COMPUTER AIDED STRUCTURAL ENGINEERING (35)</b>	<b>Elective – III</b> Analysis of Shells and Folded Plates (H3505) Reliability Based Engineering Design (H3506) Earthquake Resistant Structures (H3507)	Structural Dynamics (H3501)	Artificial Neural Networks (H3503)	CAD & Computer applications in Structural Engineering (H3504)	<b>Elective – IV</b> Management Information Systems (H3508) Fracture Mechanics (H3509) Advanced Concrete Technology (H3510)	Finite Element Analysis (H3502)	---	---	---	---

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*N. Mohan Rao*  
Controller of Examinations

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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 (H5610)	Real Time Control of Power Systems (H5603)	<b>Elective – III</b>  Power System Reliability (H5607)	Advanced Power System Protection (H5604)	<b>Elective – IV</b>  Power System Deregulation (H5609)  Power System Transients (H5611)  Demand Side Energy Management (H5612)	<b>Elective – III</b>  Smart Grid (H5605)  Power Quality (H5606)	Flexible AC Transmission Systems (H5602)	<b>Elective – III</b>  Voltage Stability (H5608)	Power System Dynamics & Stability (H5601)	---
<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 (H4301)	Custom Power Devices (H4304)	Digital Controllers (H4303)	Electric Drives – II (H4302)	<b>Elective – III</b>  Renewable Energy System (H4305)  Electrical Distribution Systems (H4307)	<b>Elective – IV</b>  Smart Grid (H5605)  Special Machines (H4308)  Programmable Logic Controllers & Applications (H4309)	---	<b>Elective – III</b>  Reactive Power Compensatio n & Management (H4306)	---	---

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<p><b>EEE</b></p> <p><b>Power Electronics &amp; Power Systems (99)</b></p>	Switched Mode Power Conversion (H4301)	Custom Power Devices (H4304)	<b>Elective – III</b> Power System Reliability (H5607)	Advanced Power System Protection (H5604)	<b>Elective – III</b> Power System Deregulation (H5609)	<b>Elective – IV</b>  Smart Grid (H5605)  Programmable Logic Controllers & Applications (H4309)  Energy Auditing, Conservation & Management (H9901)	Flexible AC Transmission Systems (H5602)	<b>Elective – III</b> Voltage Stability (H5608)	---	---
<p><b>EEE</b></p> <p><b>High Voltage Engineering, Power Systems with Emphasis on High Voltage Engineering (62/64)</b></p>	High Voltage Testing Techniques (H5610)	HVAC Transmission (H6201)	Surge Phenomenon & Insulation Coordination (H6202)	Advanced Power System Protection (H5604)	<b>Elective – IV</b> Power System Deregulation (H5609)	<b>Elective – III</b>  Partial Discharge in HV Equipment (H6203)  High Voltage System Using EMTP Analysis (H6204)  Pulse Power Engineering (H6205)	<b>Elective – IV</b> Flexible AC Transmission Systems (H5602)	<b>Elective – IV</b> Reactive Power Compensation & Management (H4306)	---	---

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<b>EEE</b> <b>Control Systems, Control Engineering (95)</b>	Robotics & Control (H9501)	Non-Linear Systems Analysis (H9502)	Digital Signal Processing (H9503)	Optimal Control Theory (H9504)	<b>Elective – III</b>  AI Techniques (H9505)  Embedded Real Time Operating System EMS (H9506)	<b>Elective – IV</b>  Decision and Estimation Theory (H9507)  Embedded Computer Control (H9508)	---	---	---	---

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<b>MECHANICAL THERMAL ENGINEERING (21)</b>	Fuels, Combustion & Environment (H2101)	Energy Management (H2102)	Finite Element Methods (H2103)	Computational Fluid Dynamics (H2104)	<b>Elective – III</b>  Materials for Thermal Engineering (H2105)  Convective Heat Transfer (H2106)  Thermal & Nuclear Power Plants (H2107)  Advanced Automobile Engineering (H2108)	<b>Elective – IV</b>  Thermal Measurements and Process Controls (H2109)  Cryogenic Engineering (H2110)  JET Propulsion and Rocketry (H2111)  Equipment Design for Thermal Systems (H2112)	---	----	---	----

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<b>MECHANICAL THERMAL SCIENCES AND ENERGY SYSTEMS (18)</b>	Solar Thermal and Photovoltaic Systems (H1801)	Hydrogen and Fuel Cells (H1802)	Biomass, Wind and Ocean Energy (H1803)	Energy Audit and Conservation (H1804)	<b>Elective – III</b> Energy Systems Modelling and Analysis (H1805)  Energy Economics and Planning (H1806)  Advanced Optimization Techniques (H1807)	<b>Elective – IV</b> Instrumentation & Controls for Energy Systems (H1808)  Waste Heat Recovery Systems (H1809)  Green Energy Technologies (H1810)	---	---	---	---
<b>MECHANICAL MACHINE DESIGN/MECHANICAL ENGINEERING DESIGN (15/14)</b>	Experimental Stress Analysis (H1502)	<b>Elective -IV</b> Theory of Plasticity (H1513)	Finite Element Method (H2103)	<b>Elective – III</b> Computational Fluid Dynamics (H2104)  Design Synthesis (H1509)	<b>Elective – II</b> Fracture Mechanics (H1503)  Gear Engineering (H1504)  Design for Manufacturing (H1505)  Continuum Mechanics (H1506)	<b>Elective – IV</b> Pressure Vessel Design (H1510)  Mechanics of Composite Materials (H1511)	Optimization and Reliability (H1501)	<b>Elective - III</b> Signal Analysis & Condition Monitoring (H1508)	Mechatronics (H1512)	<b>Elective -III</b> Tribology (H1507)



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<b>MECHANICAL CAD/CAM (04)</b>	Simulation Modeling of Manufacturing Systems (H0401)	<b>Elective – IV</b> Mechanics & Manufacturing Methods of Composites (H0405) Intelligent Manufacturing Systems (H0408)	Finite Element Method (H2103)	Computer Graphics (H0402)	<b>Elective – III</b> Fracture Mechanics (H1503) Concurrent Engineering (H0404)	----	Optimization and Reliability (H1501)	---	<b>Elective – III</b> Quality Engineering in Manufacturing (H0403)	<b>Elective – IV</b> Materials Technology (H0407)
<b>MECHANICAL ADVANCED MANUFACTURING SYSTEMS (17)</b>	Simulation Modeling of Manufacturing Systems (H0401)	Intelligent Manufacturing Systems (H0408)	<b>Elective – III</b> Finite Element Method (H2103)	<b>Elective – IV</b> Computational Fluid Dynamics (H2104)	<b>Elective – III</b> Concurrent Engineering (H0404) Design and Manufacturing of MEMS & Microsystems (H1702) Finite Element Method (H2103)	----	<b>Elective – IV</b> Optimization & Reliability (H1705)	Production & Operations Management (H1701)	Quality Engineering in Manufacturing (H0403)	<b>Elective – IV</b> Materials Technology (H0407)

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<b>MECHANICAL</b>  <b>Advanced Manufacturing and mechanical system design (13)</b>	Simulation Modeling of Manufacturing Systems (H0401)	Intelligent Manufacturing Systems (H0408)	<b>Elective – III</b>  Finite Element Methods (H2103)	Precision Engineering (H1301)	<b>Elective – III</b>  Concurrent Engineering (H0404)  Design and Manufacturing of MEMS and Microsystems (H1702)  Finite Element Methods (H2103)	<b>Elective – IV</b>  Product Data Management (H1302)  Flexible Manufacturing Systems (H1303)	---	Production and Operations Management (H1701)	---	Materials Technology (H0407)
<b>MECHANICAL</b>  <b>AEROSPACE ENGINEERING (41)</b>	Aircraft Control & Simulation (H4101)	Space Transportation Systems (H4102)	Computational Approaches to Aerospace Vehicle Design (H4103)	Aerospace Sensors & Measurement Systems (H4104)	<b>Elective – III</b> Aero-thermodynamics of Hypersonic Flight (H4105)  Dynamics & Control of Structures (H4106)  Missile Guidance (H4107)  Advanced Topics in Air Traffic Management systems (H4108)  Spacecraft Dynamics & Control (H4109)	<b>Elective – IV</b> Rocket & Spacecraft Propulsion (H4110)  Mechanics of Composite Materials (H4111) Tactical Missile Design (H4112)  High Angle of Attack Aerodynamics (H4113)  Optimal Control (H4114)	---	---	---	----

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<b>MECHANICAL</b>  <b>Petroleum Engineering (08)</b>	Advanced Natural Gas Engineering (H0801)	Artificial Lift Techniques (H0802)	Operational Aspects of Well Testing (H0803)	Integrated Reservoir Management (H0804)	<b>Elective – I</b>  Practical Reservoir Modeling & Simulation (H0805)  Optimization of Oil & Gas Production H0806 Flow Assurance (H0807)	<b>Elective – II</b>  Process Safety & Environmental Aspects in Petroleum Industry (H0808)  Deep Water Technologies (H0809)  Characterization of Petroleum Oils (H0810)	---	---	---	---

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<b>CSE SOFTWARE ENGINEERING (25)</b>	Software Architecture & Design Patterns (H2501)	Software Quality Assurance & Testing (H2502)	Service Oriented Architectures (H2503)	<b>Elective – III</b> Multimedia & Application Development (H2510)  Natural Language Processing (H2511)	<b>Elective – I</b> Secure Software Engineering (H2504)  Systems Engineering (H2505)  ERP & Supply Chain Management (H2506)	<b>Elective-II</b> User Interface Design (H2507)  Cloud Computing (H2508)  Social Networking and Semantic Web (H2509)	<b>Elective – III</b> Soft Computing (H2512)	---	---	---
<b>CSE INFORMATION TECHNOLOGY (40)</b>	Advanced UNIX Programming (H4001)	<b>Elective -III</b> Image Processing & Pattern Recognition (H4009)	---	<b>Elective – I</b> ADHOC & Sensor Networks (H4003)  Semantic Webservices (H4004)  UML & Design Patterns (H4005)	<b>Elective – II</b> Information Retrieval System (H4007)  Animation & Gaming (H4008)	<b>Elective – III</b> Cloud Computing (H2508)  Information Storage Management (H4010)	Soft Computing (H2512)	Information Security (H4002)	<b>Elective – II</b> Machine Learning (H4006)	---

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<b>CSE</b> <b>COMPUTER</b> <b>SCIENCE</b> <b>(05)</b>	Design & Analysis of Algorithms (H0502)	Web Technologies (H0509)	Data Warehousing & Data Mining (H0501)	<b>Elective – II</b>  Human Computer Interaction (H0507)	<b>Elective – II</b>  Systems Engineering (H2505)  Business Intelligence (H0506)	Software Engineering (H0503)	<b>Elective – I</b>  Soft Computing (H2512)	<b>Elective – III</b> Information Security (H4002)	<b>Elective – I</b>  Automata Theory & Compiler Design (H0504)  Advanced Computer Architecture (H0505)	<b>Elective - III</b>  Image Processing (H0508)
<b>CSE</b> <b>COMPUTER</b> <b>SCIENCE &amp; TECNOLOGY</b> <b>(59)</b>	Advanced Unix Programming (H4001)	Computer System Engineering (H5902)	Advanced Computer Algorithms (H5901)	<b>Elective – I</b>  Middleware Technologies (H5903)  Health Informatics (H5904)	<b>Elective – II</b>  Information Retrieval Systems (H4007)	<b>Elective – III</b>  Pattern Recognition & Image Processing (H5906)  Cloud Computing (H2508)	<b>Elective – I</b>  Soft Computing (H2512)	<b>Elective – II</b> Information Security (H4002)	<b>Elective – III</b>  Machine Learning (H4006)	<b>Elective – II</b>  VOIP (H5905)

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<b>CSE</b>  <b>COMPUTER SCIENCE &amp; ENGINEERING (58)</b>	<b>Elective-III</b>  Advanced UNIX Programming (H4001)	Computer Networks (H5801)	Data Warehousing & Data Mining (H0501)	<b>Elective – I</b> Mobile Computing (H5802)  Compiler Design (H5803)  Human Computer Interaction (H0507)	----	<b>Elective-III</b>  BIO Informatics (H5805) Elective-III  Cloud Computing (H2508)	<b>Elective-II</b>  Soft Computing H2512	Information Security (H4002)	---	<b>Elective-II</b>  Image Processing (H0508)  Object Oriented Analysis and Design (H5804)
<b>CSE</b>  <b>COMPUTER NETWORKS (88)</b> <b>COMPUTER NETWORKS AND INFORMATION SECURITY (84)</b>	Advanced Computer Communications (H8401)	TCP/IP (H8403)	----	<b>Elective – III</b>  MANETS (H8407)	<b>Elective – I</b> 3G Wireless Networks (H8409)  Hacking Techniques (H8408)  Cyber Laws & IT Practices (H8406)	<b>Elective – II</b> Network Management Concepts & Practices (H8410)  ISDN & Broadband ISDN (H8802)  Firewalls & VPNs (H8411)	Wireless Network & Security (H8404)	---	VANETS (H8801)	<b>Elective – III</b>  VOIP (H5905)

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<b>ECE</b>  <b>VLSI &amp; ES, ES &amp; VLSI, VLSID &amp; ES, ES &amp; VLSID</b> <b>(68/48/77/81)</b>	<b>Elective – IV</b>  Low Power VLSI Design (H6809)	CMOS Mixed Signal Circuit Design (H6802)	<b>Elective – III</b>  VLSI Signal Processing (H6807)	Design for Testability (H6804)	<b>Elective – III</b>  System on Chip Design (H6806)	<b>Elective – IV</b>  Semiconductor Memory Design & Testing (H6810)	<b>Elective – III</b>  Digital Signal Processors & Architectures (H6805)	Embedded Real Time Operating Systems (H6803)	Embedded – C (H6801)	<b>Elective - IV</b>  Micro Electro Mechanical Systems(ME MS) Design (H6808)
<b>ECE</b>  <b>VLSI/VLSI DESIGN/VLSI SYSTEM DESIGN/VLSI &amp; MICRO ELECTONICS</b> <b>(57/72/61/76)</b>	Low Power VLSI Design (H6809)	CMOS Mixed Signal Circuit Design (H6802)	<b>Elective – III</b>  Scripting Language (H5702)  VLSI Signal Processing (H6807)	Design for Testability (H6804)	<b>Elective – IV</b>  System on Chip Design (H6806)	<b>Elective – IV</b>  Optimization Techniques in VLSI Design (H5703)  Semiconductor Memory Design & Testing (H6810)	<b>Elective – III</b>  Digital Signal Processors & Architectures (H6805)	CAD for VLSI (H5701)	---	----

BRANCHES AND SPECIALIZATIONS	26.06.2018 (Tuesday)	28.06.2018 (Thursday)	30.06.2018 (Saturday)	02.07.2018 (Monday)	04.07.2018 (Wednesday)	06.07.2018 (Friday)	09.07.2018 (Monday)	11.07.2018 (Wednesday)	13.07.2018 (Friday)	16.07.2018 (Monday)
<b>ECE</b> SSP, DIP, CE & SP, IP, C&SP/SP&C (45/63/46/80/36)	Adaptive Signal Processing (H4501)	Wireless Communicati on & Networks (H4503)	Image & Video Processing (H4502)	---	<b>Elective – III</b> RF Circuit Design (H4505) Speech Processing (H4506) Bio-Medical Signal Processing (H4507)	<b>Elective – IV</b> Internet Protocols (H4508) Radar Signal Processing (H4509)	DSP Processors & Architectures (H6805)	<b>Elective – IV</b> Detection & Estimation Theory (H4510)	---	<b>Elective – IV</b> Internet Protocols (H4508)
<b>ECE</b> MICROWAVE & COMMUNICAT ION ENGINEERING (82)	Software Defined Radio (H8201)	Wireless Communicati on & Networks (H4503)	Phased Array Systems (H8202)	Microwave Solid State Devices (H8203)	---	---	<b>Elective – IV</b> Optical Communicati on Technology (H8207) Smart Antennas (H8208) Statistical Signal Processing (H8209)	<b>Elective – III</b> Radio & Navigational Aids (H8206) Microwave Networks (H8204)	---	<b>Elective – III</b> EMI/EMC (H8205)



BRANCHES AND SPECIALIZATIONS	26.06.2018 (Tuesday)	28.06.2018 (Thursday)	30.06.2018 (Saturday)	02.07.2018 (Monday)	04.07.2018 (Wednesday)	06.07.2018 (Friday)	09.07.2018 (Monday)	11.07.2018 (Wednesday)	13.07.2018 (Friday)	16.07.2018 (Monday)
<b>ECE</b> <b>EMBEDDED SYSTEMS (55)</b>	Hardware Software Co-Design (H5501)	---	Embedded Networking (H5502)	----	<b>Elective – IV</b> System on Chip Design (H6806) Wireless LANs & PANs (H5506) Multimedia & Signal Coding (H5507)	CPLD & FPGA Architectures & Applications (H5503)	Digital Signal Processors & Architectures (H6805)	---	---	<b>Elective - III</b> Sensors & Actuators (H5504) Micro Electro Mechanical System Design (H5505) Internet Protocols (H4508)
<b>ECE</b> <b>DIGITAL SYSTEMS &amp; COMPUTER ELECTRONICS (06)</b>	Digital Data Communications (H0601)	---	Design of Fault Tolerant Systems (H0603)	CMOS Analog & Digital IC Design (H0602)	<b>Elective – III</b> System on Clip Design (H6806) Soft Computing Techniques (H0604)	<b>Elective – IV</b> High Speed Network (H0605)	DSP Processors & Architectures (H6805)	---	---	<b>Elective -IV</b> Internet Protocols (H4508)

BRANCHES AND SPECIALIZATIONS	26.06.2018 (Tuesday)	28.06.2018 (Thursday)	30.06.2018 (Saturday)	02.07.2018 (Monday)	04.07.2018 (Wednesday)	06.07.2018 (Friday)	09.07.2018 (Monday)	11.07.2018 (Wednesday)	13.07.2018 (Friday)	16.07.2018 (Monday)
<b>ECE</b> <b>DECS, E&amp;CE,</b> <b>DECE</b> <b>(38/70/37)</b>	---	Wireless Communicati on & Networks (H4503)	Image & Video Processing (H4502)	<b>Elective – III</b> CMOS Analog & Digital IC Design (H0602)	<b>Elective – III</b> Advanced Computer Architecture (H3802)	Coding Theory & Applications (H3801)	<b>Elective – IV</b> DSP Processors & Architecture (H6805)	Embedded Real Time Operating Systems (H6803)	---	<b>Elective - IV</b> EMI/EMC (H8205)
<b>ECE</b> <b>COMMUNICA</b> <b>TION SYSTEMS</b> <b>(47)</b>	<b>Elective – III</b> Software Defined Radio (H8201)	Wireless Communicati on & Networks (H4503)	Image & Video Processing (H4502)	System Modeling & Simulation (H4701)	<b>Elective – III</b> Soft Computing Techniques (H0604)	Coding Theory & Applications (H3801)	<b>Elective – IV</b> DSP Processors & Architectures (H6805)	<b>Elective – IV</b> Optical Networks (H4702)  Radio & Navigational Aids (H8206)	---	<b>Elective - III</b> Internet Protocols (H4508)

**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 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: 30.06.2018**

*N. Mohan Rao*

**Controller of Examinations**