

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA**  
**UNIVERSITY EXAMINATION CENTER, KAKINADA - 533003**  
**IV B.TECH - II SEMESTER (R13) REGULAR/SUPPLEMENTARY EXAMINATIONS, APRIL - 2018**  
**T I M E T A B L E**

T I M E: 10.00 AM TO 1.00 PM

| Branch   | 10.04.2018<br>(Tuesday)   | 12.04.2018 (Thursday)   | 16.04.2018 (Monday)   | 18.04.2018 (Wednesday)   | 21.04.2018<br>(Saturday) |
|--|---|---|---|--|--------------------------|
| <b>Civil Engineering (01)</b>                      | Estimating, Specifications & Contracts (RT42011)                    | <b>Elective-II:</b> Engineering with Geo-synthetics (RT42012A)/ Environmental Impact Assessment and Management (RT42012B)/ Advanced Structural Engineering (RT42012C)/ Ground Water Development and Management (RT42012D)/ Traffic Engineering (RT42012E)/ Infrastructure Management (RT42012F) | <b>Elective-III:</b> Advanced foundation Engineering (RT42013A)/ Solid waste Management (RT42013B)/ Earthquake Resistant Design (RT42013C)/ Water Shed Management (RT42013D)/ Pavement Analysis and Design (RT42013E)/ Green Buildings (RT42013F) | <b>Elective-IV:</b> Soil Dynamics and Machine Foundations (RT42014A)/ Environmental and Industrial Hygiene(RT42014B)/ Repair and Rehabilitation of Structures(RT42014C)/ Water Resources System Planning and Management (RT42014D)/ Urban Transportation Planning (RT42014E)/ Safety Engineering (RT42014F)/ Bridge Engineering (RT42014G) |                          |
| <b>Electrical and Electronics Engineering (02)</b> | Digital Control Systems (RT42021)                                   | <b>Elective-II:</b> Advanced Control Systems (RT42022A) High Voltage Engineering (RT42022B) Special Electrical Machines (RT42022C)  | <b>Elective-III:</b> Electric Power Quality (RT42023A)/ Digital Signal Processing (RT42023B)/ FACTS: Flexible Alternating Current Transmission Systems (RT42023C)   | <b>Elective-IV:</b> OOPS Through Java(RT42024A)/ UNIX and Shell Programming (RT42024B)/ AI Techniques (RT42024C)/ Power System Reforms (RT42024D)/ Systems Engineering (RT42024E)  |                          |
| <b>Mechanical Engineering (03)</b>                 | Production Planning and Control (RT42031)<br>(Common to ME, Mining) | Green Engineering Systems (RT42032)   | <b>Elective-III:</b> Experimental Stress Analysis (RT42033A) (Common to ME,AME)/ Mechatronics (RT42033B)/ Advanced Materials (RT42033C)/ Power Plant Engineering(RT42033D)  | <b>Elective-IV:</b> Non Destructive Evaluation(RT42034A)/ Advanced Optimization Techniques(RT42034B)/ Gas Dynamics & Jet Propulsion(RT42034C)/ Quality and Reliability Engineering (RT42034D)  |                          |

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| <b>Electronics and Communication Engineering (04)</b>     | Cellular Mobile Communication (RT42041)                    | Electronic Measurements and Instrumentation (RT42042)   | <b>Elective-III:</b> Satellite Communication (RT42043A)/<br>Mixed signal Design (RT42043B)/<br>Embedded systems (RT42043C) ( <i>Common to ECE,EIE&amp;ECC</i> )<br>RF Circuit Design (RT42043D)<br>Cloud Computing (RT42043E) ( <i>Common to ECE,CSE</i> )                            | <b>Elective-IV:</b> Wireless Sensors and Networks (RT42044A) ( <i>Common to ECE,EIE&amp;ECC</i> )<br>System on Chip (RT42044B) ( <i>Common to ECE, EIE</i> )<br>Low Power VLSI Design (RT42044C)<br>Bio-Medical Ins(RT42044D)  | EMI/EMC (RT42044E)<br>( <i>Common to ECE, ECC</i> ) |
| <b>Computer Science and Engineering (05)</b>              | Distributed Systems (RT42051) ( <i>Common to CSE, IT</i> ) | Management Science (RT42052) ( <i>Common to CSE, IT &amp; AME</i> )   | <b>Elective-IV:</b> Micro processors and Multi Core Systems (RT42054A)/<br>Embedded and Real Time Systems (RT42054B)/<br>Neural Networks & Soft Computing (RT42054C) /<br>Social Networks and the Semantic Web(RT42054D)/<br>Cloud Computing (RT42043E) ( <i>Common to CSE, ECE</i> ) | <b>Elective-III:</b> Human Computer Interaction (RT42053A)/ ( <i>Common to CSE, IT</i> )<br>Advanced Operating Systems (RT42053B)/ ( <i>Common to CSE, IT</i> )<br>Mobile Adhoc & Sensor Networks(RT42053C)/ ( <i>Common to CSE, IT</i> )<br>Pattern Recognition(RT42053D)/ ( <i>Common to CSE, IT</i> )<br>Digital Image Processing (RT42053E)/<br>Micro processors and Multi Core Systems (RT42053F) |   |
| <b>Chemical Engineering (08)</b>                          | Industrial Safety & Hazard Management (RT42081)            | <b>Elective-II:</b> Multicomponent Distillation (RT42082A)/<br>Fluidization Engineering (RT42082B)/<br>Corrosion & Its Control (RT42082C) | <b>Elective-III:</b> Computational Fluid Dynamics (RT42083A)/<br>Optimization of Chemical Processes (RT42083B)/<br>Computational Methods in Chemical Engineering (RT42083C)   | <b>Elective-IV:</b> Catalysis(RT42084A)/<br>Pipeline Engineering (RT42084B)/<br>Process Trouble Shooting (RT42084C)  |   |
| <b>Electronics &amp; Instrumentation Engineering (10)</b> | Industrial Automation (RT42101)                            | Data Communication (RT42102)  | <b>Elective-III:</b> Digital IC Design (RT42103A)/<br>Embedded systems (RT42043C) ( <i>Common to ECE,EIE&amp;ECC</i> )/<br>Micro electromechanical systems (MEMS) (RT42103B)/<br>Computer Networks (RT42103C)/<br>Advanced Computer Architecture (RT42103D)                           | <b>Elective-IV:</b> Wireless Sensors and Networks (RT42044A) ( <i>Common to ECE,EIE&amp;ECC</i> )/<br>Calibration & standards (RT42104A)/<br>Fiber Optic Sensors (RT42104B)/<br>Telemetry & Tele control (RT42104C)/<br>System on Chip(RT42044B) ( <i>Common to ECE&amp;EIE</i> )  |   |

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| <p><b>Information Technology (12)</b></p>                 | <p>Distributed Systems (RT42051)/<br/><i>(Common to CSE, IT)</i></p> | <p>Management Science (RT42052)<br/><i>(Common to CSE, IT &amp; AME)</i></p>  | <p>Mathematical Optimization (<b>RT42121</b>)</p>  | <p><b>Elective-III:</b> Human Computer Interaction (RT42053A)/ <i>(Common to CSE, IT)</i><br/>Advanced Operating Systems (RT42053B)/ <i>(Common to CSE, IT)</i><br/>Mobile Adhoc &amp; Sensor Networks(RT42053C)/ <i>(Common to CSE, IT)</i><br/>Pattern Recognition(RT42053D)/ <i>(Common to CSE, IT)</i></p> |  |
| <p><b>Electronics &amp; Computer Engineering (19)</b></p> | <p>Automata Theory &amp; Compiler Design (RT42192)/</p>              | <p>-----</p>  | <p>Embedded Systems (RT42043C)<br/><i>(Common to ECE,EIE&amp;ECC)</i></p>  | <p><b>Elective-IV:</b> Wireless Sensor Networks (RT42044A) <i>(Common to ECE, ECC)</i>/<br/>Real Time Operating Systems (RT42194B) /<br/>Network Security &amp; Cryptography (RT42194C)</p>  | <p><b>Elective-III:</b> High Performance Computing (RT42193A)/<br/>EMI/EMC (RT42044E)/<br/><i>(Common to ECE, ECC)</i><br/>Data Ware Housing &amp; Data Mining(RT42193C)</p> |
| <p><b>Aeronautical Engineering (21)</b></p>               | <p>Aircraft Systems and Instrumentation (RT42211)</p>                | <p>Structural Analysis and Detailed Design (RT42212)</p>  | <p><b>Elective-III:</b> Engineering Optimization(RT42213A)/<br/>Propellant Technology(RT42213B)/<br/>Boundary Layer Theory(RT42213C)/<br/>Hypersonic Aerodynamics (RT42213D)</p>                               | <p><b>Elective-IV:</b> Aero elasticity(RT42214A)/<br/>Industrial Aerodynamics(RT42214B) /<br/>Advanced Computational Aerodynamics (RT42214C) /<br/>Fatigue and Fracture Mechanics (RT42214D)</p>   |  |
| <p><b>Automobile Engineering (24)</b></p>                 | <p>Automotive Control Systems (RT42241)</p>                          | <p><b>Elective-IV:</b>Management Science (RT42052) <b>(Common to CSE, IT &amp; AME)</b> /<br/>Principles of Entrepreneurship (RT42244B)/<br/>Simulation of SI and CI Engines (RT42244C)/<br/>Modern Vehicle Technology (RT42244D)</p> | <p><b>Elective-III:</b> Automotive Safety (RT42243A)/ Automotive Manufacturing (RT42243B)/<br/>Auto Air Conditioning (RT42243C)/<br/>Experimental Stress Analysis (RT42033A)<br/><i>(Common to ME,AME)</i></p> | <p>Vehicle Maintenance (RT42242)</p>   |  |

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| <b>Mining Engineering (26)</b>       | Production Planning and Control (RT42031)<br><i>(Common to ME, MINING)</i> | Deep Sea Mining (RT42262A)/<br>Mine Construction (RT42262B)/<br>Tunneling Engineering (RT42262C)  | <b>Elective-III:</b> Planning Of Underground Metal Mining Project (RT42263A) /<br>Planning Of Underground Coal Mining Project (RT42263B) /<br>Planning Of Surface Mining Project (RT42263C) | <b>Elective-IV:</b> Maintenance And Reliability Engineering (RT42264A) /<br>Rock Excavation Engineering (RT42264B) /<br>Mine Health And Safety Engineering (RT42264C) |  |
| <b>Petroleum Engineering (27)</b>    | Petroleum Economics, Regulations & Policies (RT42271)                      | Reservoir Modeling & Simulation (RT42272A)/<br>Horizontal Well Technology (RT42272B)/<br>LNG-Processes, transportation & Storage (RT42272C) | <b>Elective-III:</b> Reservoir Stimulation (RT42273A)/<br>Subsea Engineering (RT42273B)/<br>Fundamentals of Multiphase Flow (RT42273C)  | <b>Elective-IV:</b> Natural Gas Hydrates (RT42274A) /<br>Advanced Natural Gas Engineering (RT42274B) /<br>Petroleum Biotechnology (RT42274C)                          |  |
| <b>Agricultural Engineering (35)</b> | Design of Agricultural Machinery (RT42351)                                 | Agro Industries and Bi-product Utilization (RT42352)  | <b>Elective-III:</b> GIS and Remote Sensing (RT42353A)<br>Human Engineering and Safety (RT42353B)<br>Production Technology of Agricultural Machinery (RT42353C)                             | <b>Elective-IV:</b> Minor Irrigation and Command area development (RT42354A)<br>Hydraulic Devices and Control (RT42354B)<br>Principles of Entrepreneurship (RT42354C) |  |

**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 SUBSTITUTE SUBJECTS THAT ARE NOT INCLUDED IN THE ABOVE LIST IMMEDIATELY.

**Date: 15.03.2018**

*N. Mohan Rao*  
**Controller of Examinations**