

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA**  
**UNIVERSITY EXAMINATION CENTER, KAKINADA - 533003**  
**IV B.TECH - I SEMESTER (R13) ADVANCED SUPPLEMENTARY EXAMINATIONS, FEBRUARY - 2020**  
**T I M E T A B L E**

**T I M E: 10.00 AM TO 1.00 PM**

<b>Branch</b>	<b>19.02.2020 (Wednesday)</b>	<b>20.02.2020 (Thursday)</b>	<b>22.02.2020 (Saturday)</b>	<b>24.02.2020 (Monday)</b>	<b>25.02.2020 (Tuesday)</b>	<b>26.02.2020 (Wednesday)</b>
<b>Civil Engineering (01)</b>	Environmental Engineering – II (RT41011)	Prestressed Concrete (RT41012)	Construction Technology and Management (RT41013)	Water Resource Engineering - II (RT41014)	Remote Sensing and GIS Applications (RT41015)	<b>Elective-I:</b> Ground Improvement Techniques (RT41016)/ Air Pollution and Control (RT41017)/ Matrix methods of Structural Analysis (RT41018)/ Urban Hydrology (RT41019)/ Advanced Surveying (RT4101A)/ Interior Designs and Decorations (RT4101B)
<b>Electronics &amp; Communication Engineering (04)</b>	<b>VLSI Design (RT41041) (Common to ECE, EIE)</b>	Computer Networks (RT41042)	<b>Digital Image Processing (RT41043) (Common to ECE/EIE/ECC)</b>	<b>Computer Architecture &amp; Organization (RT41044) (Common to ECE/EIE)</b>	<b>Elective-I:</b> Electronic Switching Systems (RT41045)/ <b>Analog IC Design (RT41046) (Common to ECE/EIE)</b> / Radar Systems (RT41048)/ <b>Advanced Computer Architecture (RT41049) (Common to ECE/ECC)</b> / Object Oriented Programming & OS (RT41047)	<b>Elective-II:</b> Optical Communication (RT4104A)/ Digital IC Design (RT4104B)/ Speech Processing (RT4104C)/ Network Security & Cryptography (RT4104E)/ Artificial Neural Network & Fuzzy Logic (RT4104D)
<b>Computer Science &amp; Engineering (05)</b>	<b>Cryptography and Network Security (RT41051) (Common to CSE/IT)</b>	<b>UML &amp; Design Patterns (RT41052) (Common to CSE/IT)</b>	<b>Mobile Computing (RT41053) (Common to CSE/IT)</b>	<b>Elective-II:</b> Digital Forensics (RT4105A)/ <b>Hadoop and Big Data (RT4105B) (Common to CSE/IT)</b> / Software Project Management (RT4105C) (Common to CSE/IT)/ Machine Learning (RT4105D)/ <b>Advanced Databases (RT4105E) (Common to CSE/IT)</b>	<b>Elective-I:</b> Software Testing Methodologies (RT41054)/ Simulation Modeling (RT41055)/ <b>Information Retrieval Systems (RT41056) (Common to CSE/IT)</b> / Artificial Intelligence (RT41057) (Common to CSE/ECC)/ <b>Multimedia Computing (RT41058) (Common to CSE/IT)</b> / High Performance Computing (RT41059)	---

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<b>Electronics &amp; Instrumentation Engineering (10)</b>	<b>VLSI Design (RT41041) (Common to ECE/EIE)</b>	Management Science (RT41102)	<b>Elective-II:</b> Mixed Signal Design (RT41106)/ Robotics & Automation (RT41107)/ EMI/EMC (RT41108)/ <b>Digital Image Processing (RT41043) (Common to ECE/EIE/ECC)</b> /Object Oriented Programming & OS (RT41047)	<b>Computer Architecture &amp; Organization (RT41044) (Common to ECE/EIE)</b>	<b>Elective-I:</b> Quality and reliability Engineering Systems (RT41103)/ <b>Analog IC Design (RT41046) (Common to ECE/EIE)</b> / Digital Control Systems (RT41104)/ Bio medical Instrumentation (RT41105)/Artificial Neural Network & Fuzzy Logic (RT41109)	Data Acquisition Systems (RT41101),
<b>Information Technology (12)</b>	<b>Cryptography and Network Security (RT41051) (Common to CSE/IT)</b>	<b>UML &amp; Design Patterns (RT41052) (Common to CSE/IT)</b>	<b>Mobile Computing (RT41053) (Common to CSE/IT)</b>	<b>Elective-II: Hadoop and Big Data (RT4105B)(Common to CSE/IT)/ Software Project Management (RT4105C) (Common to CSE/IT)/ Computer Vision (RT41122)/ Advanced Databases (RT4105E)(Common to CSE/IT)</b>	<b>Elective-I:</b> Embedded and Real Time Systems (RT41121)/ <b>Information Retrieval Systems (RT41056) (Common to CSE/IT)/ Multimedia Computing (RT41058) (Common to CSE/IT)</b>	---
<b>Electronics &amp; Computer Engineering (19)</b>	Systems Programming (RT41191)	Digital Signal Processing (RT41192)	<b>Digital Image Processing (RT41043) (Common to ECE/EIE/ECC)</b>	Unix Programming (RT41193)	<b>Elective-I: Artificial Intelligence (RT41057) (Common to CSE/ECC), Advanced Computer Architecture(RT41049)(Common to ECE/ECC)</b> , Data Communication (RT41194)	<b>Elective-II:</b> Web Design (RT41195), Fuzzy Logic and Neural Networks (RT41196), Structured Digital Design (RT41197)
<b>Agricultural Engineering (35)</b>	Micro Irrigation Engineering (RT41351)	Farm Machinery and Equipments - II (RT41352)	Post Harvest Engineering for Horticulture Produce (RT41353)	Mechanical Measurements and Instrumentation (RT41354)	<b>Elective-I:</b> Seed Processing and Storage Engineering (RT41355), Managerial Economic & Financial Analysis (RT41356), Food Processing Plant Design and Layout (RT41357)	<b>Elective - II:</b> Watershed Management (RT41358), Food Packaging Technology (RT41359), Computational Fluid Dynamics (RT4135A)

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<b>Electrical &amp; Electronics Engineering (02)</b>	Renewable Energy sources and Systems (RT41021)	HVAC & DC Transmission (RT41022)	Power Systems Operation & Control (RT41023)	<b>Elective -I:</b> VLSI Design (RT41028)/Electrical Distribution Systems (RT41029)/Optimization Techniques (RT4102A)	---	<b>OPEN ELECTIVES:</b> Energy Audit, Conservation and Management (RT41024)/ Instrumentation (RT41025)/ Non Conventional Sources of Energy (RT41026) (Except EEE)/ Optimization Techniques (RT41027) (Except EEE), MEMS (RT41035)/ Nano Technology (RT41036), Industrial Pollution Control Engineering (RT41085)/ Design and Analysis of Experiments (RT41086)/ Green Fuel Technologies (RT41087) , Airport Management (RT41214), Automotive Pollution & Control (RT41245), Advanced Materials (RT41246), Industrial Hydraulic & Pneumatics (RT41247), Industrial Robotics (RT41265), Environmental Impact Assessment (RT41266), Numerical Methods (RT41267), Fundamentals of Petroleum Industry (RT41275), , Energy Management (RT41276)
<b>Mechanical Engineering (03)</b>	Automobile Engineering (RT41031)	<b>CAD/CAM (RT41032) (Common to ME/AME)</b>	Unconventional Machining Processes(RT41034)	<b>Finite Element Methods (RT41033) (Common to ME/AE/AME)</b>	<b>Departmental Elective - II:</b> Material Characterization Techniques (RT41037)/Design for Manufacture (RT41038)/Automation in Manufacturing (RT41039)/Industrial Hydraulics & Pneumatics (RT4103A), Advanced Computer Aided Engineering (RT4103B) (Under <b>MOOCS</b> )	
<b>Chemical Engineering (08)</b>	Transport Phenomena (RT41081)	Chemical Engineering Plant Design (RT41082)	Process Modelling and Simulation (RT41083)	Biochemical Engineering (RT41084)	<b>Elective-I:</b> Advanced Separation Technology (RT41088)/Nanotechnology (RT41089)/Polymer Technology (RT4108A)	
<b>Aeronautical Engineering (21)</b>	Vibrations and Structural Dynamics (RT41211)	<b>Elective- II:</b> Analysis of Composite Structure (RT41215), Air Line Management (RT41216), Helicopter Engineering (RT41217), Quality and Reliability Engineering (RT41218)	Avionics (RT41213)	<b>Finite Element Methods (RT41033)(Common to ME/AE/AME)</b>	<b>Computational Fluid Dynamics (RT41212)(Common to AE/AME)</b>	

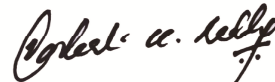
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<b>Automobile Engineering (24)</b>	Vehicle Dynamics (RT41244)	<b>CAD/CAM (RT41032)</b> (Common to ME/AME)	Automotive Chassis & Suspension (RT41248)	<b>Finite Element Methods (RT41033)</b> (Common to ME/AE/AME)	<b>Elective-II:</b> Micro Processors & Micro Controllers (RT41241), <b>Computational Fluid Dynamics (RT41212)</b> (Common to AE/AME), Operation Research (RT41242), Condition Monitoring (RT41243)	<b>OPEN ELECTIVES:</b> Energy Audit, Conservation and Management (RT41024)/ Instrumentation (RT41025)/ Non Conventional Sources of Energy (RT41026) (Except EEE)/ Optimization Techniques (RT41027) (Except EEE), MEMS (RT41035)/ Nano Technology (RT41036), Industrial Pollution Control Engineering (RT41085)/ Design and Analysis of Experiments (RT41086)/ Green Fuel Technologies (RT41087) , Airport Management (RT41214), Automotive Pollution & Control (RT41245), Advanced Materials (RT41246), Industrial Hydraulic & Pneumatics (RT41247), Industrial Robotics (RT41265), Environmental Impact Assessment (RT41266), Numerical Methods (RT41267), Fundamentals of Petroleum Industry (RT41275), , Energy Management (RT41276) Green Technologies (RT41016F)
<b>Mining Engineering (26)</b>	Mine Economics (RT41261)	Computer Applications in Mining (RT41262)	Rock Mechanics & Ground Control (RT41263)	Mine Legislation & General Safety (RT41264)	Industrial Engineering & Management (RT41268)	
<b>Petroleum Engineering (27)</b>	Integrated Asset Management (RT41271)	Enhanced Oil Recovery Techniques (RT41272)	HSE & FE in Petroleum Industry (RT41273)	Petroleum Reservoir Engineering - II (RT41274)	<b>Elective-I:</b> Offshore Engineering (RT41277), Pipeline Engineering (RT41278), Coal Bed Methane Engineering (RT41279)	

**NOTE:**

- i) ANY OMISSIONS OR CLASHES IN THIS TIME TABLE MAY PLEASE BE INFORMED TO THE CONTROLLER OF EXAMINATIONS (UG) 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: 01.02.2020**

  
**Controller of Examinations**