



# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

## IV B.TECH - I SEMESTER (R13) SPECIAL SUPPLEMENTARY EXAMINATIONS, SEPTEMBER - 2022

### T I M E T A B L E

**TIME: 10.00 AM TO 01.00 PM**

Branch	12-09-2022 (Monday)	14-09-2022 (Wednesday)	16-09-2022 (Friday)	19-09-2022 (Monday)	21-09-2022 (Wednesday)	23-09-2022 (Friday)
<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)	Elective-I: 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>	VLSI Design (RT41041) (Common to ECE, EIE)	Computer Networks (RT41042)	Digital Image Processing (RT41043) (Common to ECE/EIE/ECC)	Computer Architecture & Organization (RT41044) (Common to ECE/EIE)	Elective-I: Electronic Switching Systems (RT41045)/ Analog IC Design (RT41046) (Common to ECE/EIE)/ Radar Systems (RT41048)/ Advanced Computer Architecture (RT41049) (Common to ECE/ECC)/ Object Oriented Programming & OS (RT41047)	Elective-II: 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>	Cryptography and Network Security (RT41051) (Common to CSE/IT)	UML & Design Patterns (RT41052) (Common to CSE/IT)	Mobile Computing (RT41053) (Common to CSE/IT)	Elective-II: Digital Forensics (RT4105A)/ Hadoop and Big Data (RT4105B) (Common to CSE/IT)/ Software Project Management (RT4105C) (Common to CSE/IT)/ Machine Learning (RT4105D)/ Advanced Databases (RT4105E) (Common to CSE/IT)	Elective-I: Software Testing Methodologies (RT41054)/ Simulation Modeling (RT41055)/ Information Retrieval Systems (RT41056) (Common to CSE/IT)/ Artificial Intelligence (RT41057) (Common to CSE/ECC)/ Multimedia Computing (RT41058) (Common to CSE/IT)/ High Performance Computing (RT41059)	---

**TIME: 10.00 AM TO 01.00 PM**

<b>Branch</b>	<b>12-09-2022 (Monday)</b>	<b>14-09-2022 (Wednesday)</b>	<b>16-09-2022 (Friday)</b>	<b>19-09-2022 (Monday)</b>	<b>21-09-2022 (Wednesday)</b>	<b>23-09-2022 (Friday)</b>
<b>Electronics &amp; Instrumentation Engineering (10)</b>	VLSI Design <b>(RT41041)</b> (Common to ECE/EIE)	Management Science <b>(RT41102)</b>	Elective-II: Mixed Signal Design <b>(RT41106)</b> / Robotics & Automation <b>(RT41107)</b> / EMI/EMC <b>(RT41108)</b> / Digital Image Processing <b>(RT41043)</b> (Common to ECE/EIE/ECC) /Object Oriented Programming & OS <b>(RT41047)</b>	Computer Architecture & Organization <b>(RT41044)</b> (Common to ECE/EIE)	Elective-I: Quality and reliability Engineering Systems <b>(RT41103)</b> /Analog IC Design <b>(RT41046)</b> (Common to ECE/EIE)/ Digital Control Systems <b>(RT41104)</b> / Bio medical Instrumentation <b>(RT41105)</b> /Artificial Neural Network & Fuzzy Logic <b>(RT41109)</b>	Data Acquisition Systems <b>(RT41101)</b>
<b>Information Technology (12)</b>	Cryptography and Network Security <b>(RT41051)</b> (Common to CSE/IT)	UML & Design Patterns <b>(RT41052)</b> (Common to CSE/IT)	Mobile Computing <b>(RT41053)</b> (Common to CSE/IT)	Elective-II: Hadoop and Big Data <b>(RT4105B)</b> (Common to CSE/IT)/ Software Project Management <b>(RT4105C)</b> (Common to CSE/IT)/ Computer Vision <b>(RT41122)</b> / Advanced Databases <b>(RT4105E)</b> (Common to CSE/IT)	Elective-I: Embedded and Real Time Systems <b>(RT41121)</b> / Information Retrieval Systems <b>(RT41056)</b> (Common to CSE/IT)/ Multimedia Computing <b>(RT41058)</b> (Common to CSE/IT)	---
<b>Electronics &amp; Computer Engineering (19)</b>	Systems Programming <b>(RT41191)</b>	Digital Signal Processing <b>(RT41192)</b>	Digital Image Processing <b>(RT41043)</b> (Common to ECE/EIE/ECC)	Unix Programming <b>(RT41193)</b>	Elective-I: Artificial Intelligence <b>(RT41057)</b> (Common to CSE/ECC), Advanced Computer Architecture <b>(RT41049)</b> (Common to ECE/ECC), Data Communication <b>(RT41194)</b>	Elective-II: Web Design <b>(RT41195)</b> , Fuzzy Logic and Neural Networks <b>(RT41196)</b> , Structured Digital Design <b>(RT41197)</b>
<b>Agricultural Engineering (35)</b>	Micro Irrigation Engineering <b>(RT41351)</b>	Farm Machinery and Equipments - II <b>(RT41352)</b>	Post Harvest Engineering for Horticulture Produce <b>(RT41353)</b>	Mechanical Measurements and Instrumentation <b>(RT41354)</b>	Elective-I: Seed Processing and Storage Engineering <b>(RT41355)</b> , Managerial Economic & Financial Analysis <b>(RT41356)</b> , Food Processing Plant Design and Layout <b>(RT41357)</b>	Elective - II: Watershed Management <b>(RT41358)</b> , Food Packaging Technology <b>(RT41359)</b> , Computational Fluid Dynamics <b>(RT4135A)</b>

**TIME: 10.00 AM TO 01.00 PM**

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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)	Elective -I: 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)	CAD/CAM (RT41032) (Common to ME/AE/AME)	Unconventional Machining Processes (RT41034)	Finite Element Methods (RT41033) (Common to ME/AE/AME)	Departmental Elective - II: Material Characterization Techniques (RT41037)/Design for Manufacture (RT41038)/Automation in Manufacturing (RT41039)/Industrial Hydraulics & Pneumatics (RT4103A), Advanced Computer Aided Engineering (RT4103B) (Under MOOCS)	
<b>Chemical Engineering (08)</b>	Transport Phenomena (RT41081)	Chemical Engineering Plant Design (RT41082)	Process Modelling and Simulation (RT41083)	Biochemical Engineering (RT41084)	Elective-I: Advanced Separation Technology (RT41088)/Nanotechnology (RT41089)/Polymer Technology (RT4108A)	
<b>Aeronautical Engineering (21)</b>	Vibrations and Structural Dynamics (RT41211)	Elective- II: Analysis of Composite Structure (RT41215), Air Line Management (RT41216), Helicopter Engineering (RT41217), Quality and Reliability Engineering (RT41218)	Avionics (RT41213)	Finite Element Methods (RT41033) (Common to ME/AE/AME)	Computational Fluid Dynamics (RT41212) (Common to AE/AME)	


**TIME: 10.00 AM TO 01.00 PM**

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<b>Automobile Engineering (24)</b>	Vehicle Dynamics (RT41244)	CAD/CAM (RT41032) (Comm to ME/AME)	Automotive Chassis & Suspension (RT41248)	Finite Element Methods (RT41033) (Common to ME/AE/AME)	Elective-II: Micro Processors & Micro Controllers (RT41241), Computational Fluid Dynamics (RT41212)(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)	Elective-I: 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 : 29.08.2022**

  
**Controller of Examinations**

**TIME TABLE OF IV B.TECH I SEMESTER SUBSTITUTE SUBJECTS FOR READMITTED STUDENTS  
FROM R10 TO R13 REGULATIONS**

DATE OF EXAMINATION: 23-09-2022 (Friday)		TIME OF EXAMINATION: 10.00 AM TO 01.00 PM
BRANCH	ALREADY STUDIED SUBJECT	SUGGESTED SUBJECT
ELECTRONICS AND COMMUNICATION ENGINEERING (04 – ECE)	VLSI Design (RT41041)	<b><u>Elective - I</u></b>
		1. Electronic Switching Systems (PT41042)
		2. Analog IC Design (PT41043)
		3. Object Oriented Programming & O S (PT41044)
		4. Radar Systems (PT41045)
		5. Advanced Computer Architecture (PT41046)
		6. Data Structures (PT4104C)


**TIME TABLE OF IV B.TECH I SEMESTER SUBSTITUTE SUBJECTS FOR READMITTED STUDENTS  
FROM R07 TO R13 REGULATIONS**

DATE OF EXAMINATION: 21-09-2022 (Wednesday)		TIME OF EXAMINATION: 10.00 AM TO 01.00 PM
BRANCH	ALREADY STUDIED SUBJECT	SUGGESTED SUBJECT
ELECTRONICS AND COMMUNICATION ENGINEERING (04 – ECE)	VLSI Design (RT41041)	<b><u>Elective - I</u></b>
		1. Bio-Medical Engineering (PT41041)
		2. Electronic Switching Systems (PT41042)
		3. Analog IC Design (PT41043)
		4. Object Oriented Programming & O S (PT41044)
		5. Radar Systems (PT41045)
		6. Advanced Computer Architecture (PT41046)

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- 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: 29-08-2022**

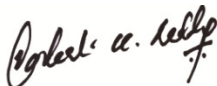
  
**Controller of Examinations**

**TIME TABLE OF IV B.TECH I SEMESTER SUBSTITUTE SUBJECTS FOR READMITTED STUDENTS  
FROM R10 TO R13 REGULATIONS**

DATE OF EXAMINATION: 23-09-2022 (Friday)		TIME OF EXAMINATION: 10.00 AM TO 01.00 PM
BRANCH	ALREADY STUDIED SUBJECT	SUGGESTED SUBJECT
CIVIL ENGINEERING (01 - CE)	Water Resources Engineering-II (RT41014)	Industrial Water and Waste Water Management (PT41012)
MECHANICAL ENGINEERING (03 – ME)	Finite Element Methods (RT41033)	Refrigeration and Air Conditioning (PT41032) OR Instrumentation & Control Systems (PT41031)
ELECTRONICS AND COMMUNICATION ENGINEERING (04 – ECE)	Computer Architecture and Organization (RT41044)	<b>Elective - I</b>
		1. Electronic Switching Systems (QT41042)
		2. Analog IC Design (QT41043)
		3. Object Oriented Programming & O S (QT41044)
		4. Radar Systems (QT41045)
		5. Advanced Computer Architecture (QT41046)
		<b>Elective - II</b>
		1. Optical Communication (QT41047)
		2. Digital IC Design (QT41048)
		3. Speech Processing (QT41049)
4. Artificial Neural Network & Fuzzy Logic (QT4104A)		
5. Network Security & Cryptography (QT4104B)		

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DATE: 29-08-2022

  
 Controller of Examinations



# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

## IV B.TECH - I SEMESTER (R10) SPECIAL SUPPLEMENTARY EXAMINATIONS, SEPTEMBER - 2022

### T I M E T A B L E

**TIMING: 10.00 AM TO 01.00 PM**

Branch	12-09-2022 (Monday)	14-09-2022 (Wednesday)	16-09-2022 (Friday)	19-09-2022 (Monday)	21-09-2022 (Wednesday)	23-09-2022 (Friday)
<b>Civil Engineering (01)</b>	Geotechnical Engineering - II (R41011)	Design & Drawing of Irrigation Structures (R41012)	Environmental Engineering (R41013)	Remote Sensing and GIS Applications (R41014)	Earthquake Resistant Design (R41015), Ground Improvement Techniques (R41016), Urban Transportation Planning (R41017)	<b>OPEN ELECTIVES</b> Air Pollution and Control (R41018), Disaster Management (R41019), Industrial Water & waste Water Management (R4101A), Architecture and Town Planning (R4101B), Energy Audit, Conservation and Management (R41025), Instrumentation (R41026), Non Conventional Sources of Energy (R41027)(except EEE branch students), Optimization Techniques (R41028)(except EEE branch students), MEMS (R41035), Industrial Robotics (R41036)(Except for Mechanical Students),
<b>Electrical &amp; Electronics Engineering (02)</b>	Computer Organization (R41021)	High Voltage Engineering (R41022)	Switch Gear & Protection (R41023)	Power System Operation & Control (R41024)	VLSI Design (R41029), Electrical Distribution Systems (R4102A) , Optimization Techniques (R4102B)	
<b>Mechanical Engineering (03)</b>	Refrigeration & Air Conditioning (R41031)	CAD/CAM (R41032) (Common to ME/AME)	Alternative Sources of Energy(R41033)	Unconventional Machining Processes(R41034)	Automobile Engineering (R41037), Computational Fluid Dynamics (R41038), Condition Monitoring (R41039), Rapid Prototyping (R4103A)	
<b>Electronics &amp; Communication Engineering (04)</b>	OPTICAL COMMUNICATIONS (R41041)	EMBEDDED SYSTEMS (R41042) (Common to ECE/ECC)	DIGITAL IMAGE PROCESSING (R41043) (Common to ECE/ECC)	RADAR SYSTEMS (R41044)	TELECOMMUNICATION SWITCHING SYSTEMS (R41045), ANALOG IC DESIGN (R41046), OBJECT ORIENTED PROGRAMMING (R41047) (Common to ECE/Bio- Medical)	

Branch	12-09-2022 (Monday)	14-09-2022 (Wednesday)	16-09-2022 (Friday)	19-09-2022 (Monday)	21-09-2022 (Wednesday)	23-09-2022 (Friday)
<b>Computer Science &amp; Engineering (05)</b>	Cryptography and Network Security(R41051) ( Common to CSE/IT)	UML & Design Patterns (R41052)	Data Ware Housing and Data Mining(R41053) (Common to CSE/IT)	Mobile Computing(R41054) (Common to CSE/IT)	Computer Forensics(R41059), Cloud Computing(R4105A), Software Project Management(R4105B), Machine Learning(R4105C), Distributed Databases(R4105D) Big Data Analytics (MOOCs) R4105G	Bio-Medical Engineering (R41048)(Common to ECE/Bio-Medical), Image Processing (R41049) (Except ECE and Bio-Medical Engg students)(Common to ECE/Bio-Medical), Principales of Signals, Systems and Communications (R4104A)(Except ECE Students), Matlab (R41055)(Except CSE, IT, ECE, EEE Students), Web Services (R41056) (Except CSE, IT Students), Open Source Software (R41057), Cyber Laws (R41058), Industrial Pollution Control Engineering (R41085)(Except Chemical students), Design and Analysis of Experiments (R41086)(Except Chemical Students), Green Fuel Technologies (R41087)(Except Chemical and petroleun Engg students), Avionics (R41215) Industrial Engineering and Management (R41216)
<b>Chemical Engineering (08)</b>	Transport Phenomena (R41081) (Common to CHE/PE)	Plant Design for Chemical Engineers (R41082)	Process Modelling and Simulation (R41083)	Computational Methods in Chemical Engineering (R41084)	Industrial Biotechnology (R41088) , Nanotechnology (R41089), Polymer Technology (R4108A)	
<b>Electronics &amp; Instrumentation Engineering (10)</b>	Computer Networks(R41105) (Common to EIE/Bio-Medical), Power Plant Instrumentation(R41106) , Embedded and Real Time Systems(R41107)	Digital Signal Processing (R41102)	Process Control Instrumentation (R41103)	Automation of Industrial Processes (R41101)	P C Based Instrumentation (R41104)	
<b>Bio Medical Engineering</b>	Computer Networks (R41105) (Common to EIE/Bio-Medical)	Image Processing (R41113) (Only for Bio-Medical Engg Students)	Artificial Neural Networks (R41112)	Rehabilitation Engineering (R41114)	Operating Systems(R41116), Telemedicine(R41117) , OBJECT ORIENTED PROGRAMMING (R41047) (Common to ECE/Bio-Medical)	



Branch	12-09-2022 (Monday)	14-09-2022 (Wednesday)	16-09-2022 (Friday)	19-09-2022 (Monday)	21-09-2022 (Wednesday)	23-09-2022 (Friday)
<b>Information Technology (12)</b>	Cryptography and Network Security (R41051) (Common to CSE/IT)	Design Patterns (R41121)	Data Ware Housing and Data Mining (R41053) (Common to IT/CSE)	Mobile Computing (R41054) (Common to IT/ CSE)	Information Retrieval Systems (R41126), Parallel Computing(R41127), Distributed Systems(R41128), Artificial Intelligence (R41129) (Common to IT/EcomE), Computer Architecture (R4112A)	(Except Mechanical and Mining students), Bioinformatics (R41235)(Except Biotech students), Biosensors and Bioelectronics (R41236)(Except Biotech students), Nano Biotechnology (R41237)(Except Bio tech students), Bio Ethics, Bio Safety, Clinical and Regulatory Affairs (R41238)(Except Biotech students), Basic industrial and environmental Biotechnology (R41239)(Except biotech students), Automotive Pollution and Control (R41244)(Except for Automobile branch students), Environmental Impact Assessment (R41266)(Except Civil Engg Students), Fundamentals of Petroleum industry (R41274) (Except Petroleum Engg students), Energy Management (R41276)(Except Petroleum Engineering students)
<b>Electronics &amp; Computer Engineering (19)</b>	Unix Programming (R41193)	Embedded Systems (R41042) (Common to ECE/ECC)	Digital Image Processing (R41043) (Common to ECE/ECC)	Systems Programming (R41191)	Artificial Intelligence (R41129) (Common to IT/EcomE), Advanced Computer Architecture(R41195) , Data Communication (R41196)	
<b>Aeronautical Engineering (21)</b>	Vibrations and Structural Dynamics (R41211)	Computational Aero Dynamics (R41212)	Airport Management (R41214)	Structural Analysis and Detailed Design (R41213)	Experimental Stress Analysis (R41217), Analysis of Composites Structure (R41218), Space Mechanics (R41219)	
<b>Bio Technology</b>	Computational Molecular Biology (R41231)	Bio Ethics, Bio Safety, Clinical and Regulatory Affairs (R41232)	Downstream Processing (R41233)	Biosensors and Bioelectronics (R41234)(Only for Bio Tech Students)	Biomaterials Science and Technology (R4123A), Cell Signaling (R4123B), Structural Biology (R4123C), Cancer Biology (R4123D)	

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<b>Automobile Engineering (24)</b>	Vehicle Maintenance (R41241)	CAD/CAM (R41032) (Common to ME/AME)	Vehicle Dynamics(R41242)	Automotive Safety (R41243)	Vehicle Body Engg. & Safety (R41245), Alternative Energy sources for Automobiles (R41246), Robotics (R41247)	
<b>Mining Engineering (26)</b>	Mine Economics (R41261)	Computer Applications in Mining (R41262)	Rock Mechanics & Ground Control (R41263)	Mine Legislation & General Safety (R41264)	Rock Slope Engineering(R41267), Mine Subsidence Engineering(R41268), Rock Fragmentation Engineering(R41269)	.....
<b>Petroleum Engineering (27)</b>	Transport Phenomena (R41081) (Common to CHE/PE)	Enhanced Oil Recovery Techniques (R41271)	Oil & Gas Processing Plant Design (R41272)	HSE & FF in Petroleum Industry(R41273)	Offshore Engineering (R41277), Pipeline Engineering (R41278), Coal Bed Methane Engineering (R41279)	

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**DATE: 29-08-2022**

*Robert W. Kelly*  
**Controller of Examinations**

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

**IV B.TECH I SEMESTER (OR, RR, NR, R05, R07) - SPECIAL SUPPLEMENTARY EXAMINATIONS, SEPTEMBER - 2022**

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

**T I M E: 10.00 AM TO 01.00 PM**

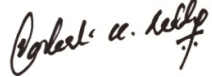
BRANCHES	DATE & DAY					
	12-09-2022 (Monday)	14-09-2022 (Wednesday)	16-09-2022 (Friday)	19-09-2022 (Monday)	21-09-2022 (Wednesday)	23-09-2022 (Friday)
<b>CE (01)</b>	Foundation Engineering M0101 (R05)	Finite Element Methods In Civil Engg. - M0102 (R05)	Finite Element Methods In Civil Engineering M0122 (R07)	Geotechnical Engineering-II M0121 (R07)	---	---
<b>EEE (02)</b>	H V Engineering F0207 (RR)  Power Semiconductor Drives - M0201 (R05)  Power Semiconductor Drives M0221 (R07)	Power Semiconductor Drives - B4101 (NR)  Power System Analysis - M0202 (R05)  Power System Analysis M0222 (R07)	Digital Signal Processing FF001 (NR)  Advanced Control Systems M0204 (R05)  Neural Networks And Fuzzy Logic N0221 (R07)	Neural Networks & Fuzzy Logic N0201 – (R05)  Power System Operation And Control M0223 (R07)	Non-Conventional Sources Of Energy N0202 – (R05)  HVDC Transmission M0224 (R07)	Database Management Systems-L0202 (R05)  EHV AC Transmission M0225 (R07)
<b>ME (03)</b>	Operations Research - F9901 (RR) Instrumentation & Control Systems - N0304 (R05) Mechatronics - N0303 (R05) Operations Research M0321 (R07)	Instrumentation & Control Systems N0304 – (R05)  Database Management Systems N0321 (R07)	Operations Research - N0301 – (R05)	CAD/CAM N0302 – (R05)	Non-Conventional Sources Of Energy N0202 – (R05)	---
<b>ECE (04)</b>	Satellite Communications F9911 (RR) Operating Systems – F0401 (RR) Electronic Measurements & Inst. - M0401 (R05) Electronic Measurements & Instrumentation M0421 (R07)	Electronic Meas & Instrumentation D0456 (OR) Computer Networks – F9908 (RR) Television Engineering M0402 (R05) Computer Networks N0421 (R07)	Digital Image Processing - F9912 (RR) Digital Image Processing M0403 (R05) Micro Controllers & Applications - N0404 (R05) Cellular And Mobile Communications N0422 (R07)	Computer Networks N0401 (R05)  Computer Networks N0401 (R07)  Operating Systems N0424 (R07)  Micro Controllers And Applications N0423 (R07)	Optical Communications N0402 (R05)  Digital Image Processing M0424 (R07)	Radar Systems N0403 (R05)  Television Engineering M0423 (R07)  Radar Systems M0422 (R07)

BRANCHES	12-09-2022 (Monday)	14-09-2022 (Wednesday)	16-09-2022 (Friday)	19-09-2022 (Monday)	21-09-2022 (Wednesday)	23-09-2022 (Friday)
<b>CSE (05)</b>	<p>Network Security &amp; Cryptography F0503 (RR)</p> <p>Mobile Computing - N0504 (R05)</p> <p>Mobile Computing N0523 (R07)</p>	<p>Web Technologies M0501 (R05)</p> <p>Data Warehousing And Data Mining M0522 (R07)</p> <p>Embedded Systems N0522 (R07) (Comm to CSE, IT)</p>	<p>Data Warehousing &amp; Data Mining M0502 (R05)</p> <p>Advanced Computer Architecture M0523 (R07)</p> <p>Mobile Computing N0523 (R07) (Comm to CSE, IT)</p>	<p>Software Project Management N0502 (R05)</p> <p>Network Programming N0521 (R07) (Comm to CSE, IT)</p>	<p>Embedded Systems N0501 (R05)</p> <p>Web Technologies M0521 (R07)</p>	<p>Client Server Computing - M0504 (R05)</p>
<b>IT (12)</b>	<p>Network Programming N0521 (R07) (Comm to CSE, IT)</p> <p>Information Retrieval Systems M1221 (R07)</p>	<p>Artificial Intelligence F1204 (RR)</p> <p>Embedded Systems N0522 (R07) (Comm to CSE, IT)</p>	<p>Client Server Computing G1203 (RR)</p> <p>Mobile Computing N0523 (R07) (Comm to CSE, IT)</p>	<p>Cellular &amp; Mobile Comm. G9907 (RR)</p> <p>Multimedia And Application Development N0524 (R07)</p> <p>Network Programming N0521 (R07) (Comm to CSE, IT)</p>	<p>Software Project Management N0525 (R07)</p>	<p>-----</p>

- NOTE** i. ANY OMISSIONS OR CLASHES IN THIS TIME TABLE MAY PLEASE BE INFORMED TO THE CONTROLLER OF EXAMINATIONS IMMEDIATELY. (0884-2300907)
- ii. EVEN IF GOVERNMENT DECLARES HOLIDAY ON ANY OF THE ABOVE DATES, THE EXAMINATIONS SHALL BE CONDUCTED AS USUAL.
- iii. THE CANDIDATES ARE REQUESTED TO INFORM THE UNIVERSITY ANY OTHER SUBSTITUTE SUBJECTS THAT ARE NOT INCLUDED IN THE ABOVE LIST IMMEDIATELY.

**(All the above Examinations will be conducted at University College of Engineering, JNTUK, Kakinada only)  
(The Hall Tickets will be placed at [www.jntukexams.net](http://www.jntukexams.net))**

**DATE: 29-08-2022**

  
**Controller of Examinations**



# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

## IV B.TECH II SEMESTER (R13) SPECIAL SUPPLEMENTARY EXAMINATIONS, SEPTEMBER - 2022

### T I M E T A B L E

**TIME: 02.00 PM TO 1.00 PM**

Branch	12-09-2022 (Monday)	14-09-2022 (Wednesday)	16-09-2022 (Friday)	19-09-2022 (Monday)
<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) <i>(Common to ME, Mining)</i>	Green Engineering Systems (RT42032)	<b>Elective-III:</b> Experimental Stress Analysis (RT42033A) <i>(Common to ME,AME)/</i> 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)
<b>Electronics and Communication Engineering (04)</b>	Cellular Mobile Communication (RT42041)	Electronic Measurements and Instrumentation (RT42042)	<b>Elective-III:</b> Satellite Communication (RT42043A)/ Mixed signal Design (RT42043B)/ Embedded systems (RT42043C) <i>(Common to ECE,EIE&amp;ECC)</i> RF Circuit Design (RT42043D) 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> System on Chip (RT42044B) <i>(Common to ECE, EIE)</i> Low Power VLSI Design (RT42044C) Bio-Medical Ins(RT42044D) EMI/EMC (RT42044E) <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)/ Embedded and Real Time Systems (RT42054B)/ Neural Networks & Soft Computing (RT42054C) / Social Networks and the Semantic Web(RT42054D)/ Cloud Computing (RT42043E) <i>(Common to CSE, ECE)</i>	<b>Elective-III:</b> Human Computer Interaction (RT42053A) <i>(Common to CSE, IT)</i> Advanced Operating Systems (RT42053B) <i>(Common to CSE, IT)</i> Mobile Adhoc & Sensor Networks(RT42053C) <i>(Common to CSE, IT)</i> Pattern Recognition(RT42053D) <i>(Common to CSE, IT)</i> Digital Image Processing (RT42053E)/ Micro processors and Multi Core Systems (RT42053F)


Branch	12-09-2022 (Monday)	14-09-2022 (Wednesday)	16-09-2022 (Friday)	19-09-2022 (Monday)
<b>Chemical Engineering (08)</b>	Industrial Safety & Hazard Management (RT42081)	<b>Elective-II:</b> Multicomponent Distillation (RT42082A)/ Fluidization Engineering (RT42082B)/ Corrosion & Its Control (RT42082C)	<b>Elective-III:</b> Computational Fluid Dynamics (RT42083A)/ Optimization of Chemical Processes (RT42083B)/ Computational Methods in Chemical Engineering (RT42083C)	<b>Elective-IV:</b> Catalysis(RT42084A)/ Pipeline Engineering (RT42084B)/ 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)/ Embedded systems (RT42043C) <i>(Common to ECE,EIE&amp;ECC)</i> / Micro electromechanical systems (MEMS) (RT42103B)/ Computer Networks (RT42103C)/ Advanced Computer Architecture (RT42103D)	<b>Elective-IV:</b> Wireless Sensors and Networks (RT42044A) <i>(Common to ECE,EIE&amp;ECC)</i> / Calibration & standards (RT42104A)/ Fiber Optic Sensors (RT42104B)/ Telemetry & Tele control (RT42104C)/ System on Chip(RT42044B) <i>(Common to ECE&amp;EIE)</i>
<b>Information Technology (12)</b>	Distributed Systems (RT42051) <i>(Common to CSE, IT)</i>	Management Science (RT42052) <i>(Common to CSE, IT &amp; AME)</i>	Mathematical Opimization <b>(RT42121)</b>	<b>Elective-III:</b> Human Computer Interaction (RT42053A)/ <i>(Common to CSE, IT)</i> Advanced Operating Systems (RT42053B)/ <i>(Common to CSE, IT)</i> Mobile Adhoc & Sensor Networks(RT42053C)/ <i>(Common to CSE, IT)</i> Pattern Recognition(RT42053D)/ <i>(Common to CSE, IT)</i>
<b>Electronics &amp; Computer Engineering (19)</b>	Automata Theory & Compiler Design (RT42192)/	<b>Elective-IV:</b> Real Time Operating Systems (RT42194B)	Embedded Systems (RT42043C) <i>(Common to ECE,EIE&amp;ECC)</i>	<b>Elective-IV:</b> Wireless Sensor Networks (RT42044A) <i>(Common to ECE, ECC)</i> / Network Security & Cryptography (RT42194C) EMI/EMC (RT42044E)(Common to ECE, ECC)
<b>Aeronautical Engineering (21)</b>	Aircraft Systems and Instrumentation (RT42211)	Structural Analysis and Detailed Design (RT42212)	<b>Elective-III:</b> Engineering Optimization(RT42213A)/ Propellant Technology(RT42213B)/ Boundary Layer Theory(RT42213C)/ Hypersonic Aerodynamics (RT42213D)	<b>Elective-IV:</b> Aero elasticity(RT42214A)/ Industrial Aerodynamics(RT42214B) / Advanced Computational Aerodynamics (RT42214C) / Fatigue and Fracture Mechanics (RT42214D)
<b>Automobile Engineering (24)</b>	Automotive Control Systems (RT42241)	<b>Elective-IV:</b> Management Science (RT42052) <i>(Common to CSE, IT &amp; AME)</i> / Principles of Entrepreneurship (RT42244B)/ Simulation of SI and CI Engines (RT42244C)/ Modern Vehicle Technology (RT42244D)	<b>Elective-III:</b> Automotive Safety (RT42243A)/ Automotive Manufacturing (RT42243B)/ Auto Air Conditioning (RT42243C)/ Experimental Stress Analysis (RT42033A) <i>(Common to ME,AME)</i>	Vehicle Maintenance (RT42242)

Branch	12-09-2022 (Monday)	14-09-2022 (Wednesday)	16-09-2022 (Friday)	19-09-2022 (Monday)
<b>Mining Engineering (26)</b>	Production Planning and Control (RT42031) (Common to ME, MINING)	Deep Sea Mining (RT42262A)/ Mine Construction (RT42262B)/ Tunneling Engineering (RT42262C)	<b>Elective-III:</b> Planning Of Underground Metal Mining Project (RT42263A) / Planning Of Underground Coal Mining Project (RT42263B) / Planning Of Surface Mining Project (RT42263C)	<b>Elective-IV:</b> Maintenance And Reliability Engineering (RT42264A) / Rock Excavation Engineering (RT42264B) / Mine Health And Safety Engineering (RT42264C)
<b>Petroleum Engineering (27)</b>	Petroleum Economics, Regulations & Policies (RT42271)	Reservoir Modeling & Simulation (RT42272A)/ Horizontal Well Technology (RT42272B)/ LNG-Processes, transportation & Storage (RT42272C)	<b>Elective-III:</b> Reservoir Stimulation (RT42273A)/ Subsea Engineering (RT42273B)/ Fundamentals of Multiphase Flow (RT42273C)	<b>Elective-IV:</b> Natural Gas Hydrates (RT42274A) / Advanced Natural Gas Engineering (RT42274B) / 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) Human Engineering and Safety(RT42353B) Production Technology of Agricultural Machinery (RT42353C)	<b>Elective-IV:</b> Minor Irrigation and Command area development(RT42354A) Hydraulic Devices and Control (RT42354B) Principles of Entrepreneurship (RT42354C)

**NOTE:**

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- 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: 29.08.2022

  
Controller of Examinations

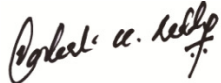
**TIME TABLE OF IV B.TECH II SEMESTER SUBSTITUTE SUBJECTS FOR READMITTED STUDENTS**  
**FROM R10 TO R13 REGULATIONS**

DATE OF EXAMINATION: 19-09-2022 (Monday)		TIME OF EXAMINATION: 02.00 PM TO 05.00 PM
BRANCH	ALREADY STUDIED SUBJECT	SUGGESTED SUBJECT
ELECTRONICS AND COMMUNICATION ENGINEERING (04 – ECE)	Electronic Measurements & Instrumentation (RT42042)	<b><u>Elective - III</u></b>
		1.Sattellite Communications (PT42043A)
		2. Embedded Systems (PT42043C)
		3. Mixed Signal Design (PT42043B)
		4. Cloud Computing (PT42043E)
		5. RF Circuit Design (PT42043D)
		<b><u>Elective - IV</u></b>
		1.Bio-Medical Ins (PT42044D)
		2. Wireless Sensors and Networks (PT42044A)
		3. System on Chip (PT42044B)
4. Low Power VLSI Design (PT42044C)		
COMPUTER SCIENCE AND ENGINEERING (05 – CSE)	Management Science (RT42052)	<b><u>Elective - III</u></b>
		1. Human Computer Interaction (PT42053A)
		2. Advanced Operating Systems (PT42053B)
		3. Mobile Adhoc & Sensor Networks (PT42053C)
		4. Pattern Recognition (PT42053D)
		5. Digital Image Processing (PT42053E)
		6. Microprocessors and Multi Core Systems (PT42053F)
		<b><u>Elective - IV</u></b>
		1. Embedded & Real Time Systems (PT42054B)
		2. Social Networks & The Semantic Web (PT42054D)
3. Cloud Computing (PT42043E)		
4. Micro processors and Multi Core Systems (PT42054A)		
5. Neural Networks & Soft Computing (PT42054C)		

**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: 29-08-2022**

  
**Controller of Examinations**



**TIME TABLE OF IV B.TECH II SEMESTER ADDITIONAL SUBJECTS FOR READMITTED STUDENTS**  
**FROM R16 REGULATIONS**

DATE OF EXAMINATION: 19-09-2022 (Monday)		TIME OF EXAMINATION: 02.00 PM TO 05.00 PM
BRANCH	ALREADY STUDIED SUBJECT	SUGGESTED SUBJECT
CIVIL ENGINEERING (01)	---	Prestressed Concrete R1642013
ELECTRICAL & ELECTRONICS ENGINEERING (02)	---	Digital Control Systems R1642021

**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: 29-08-2022**



**Controller of Examinations**



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

**IV B.TECH II SEMESTER (R10) SPECIAL SUPPLEMENTARY EXAMINATIONS, SEPTEMBER - 2022**

TIME: 02.00 PM TO 05.00 PM

**TIME TABLE**

<b>Branch</b>	<b>12-09-2022 (Monday)</b>	<b>14-09-2022 (Wednesday)</b>	<b>16-09-2022 (Friday)</b>	<b>19-09-2022 (Monday)</b>
<b>Civil Engineering (01)</b>	Estimation, Specifications & Contracts (R42011)	Environmental Impact Assessment and Management (R42014), Advanced Structural Design (R42012), Ground Water Development and Management (R42013)	Water Shed Management (R42015), Finite Element Methods (R42016), Pavement Analysis Design and Evaluation (R42017)	Soil Dynamics and Machine Foundations (R42018), Advanced Structural Analysis (R42019), Water Resources System Planning and Management (R4201A)
<b>Electrical &amp; Electronics Engineering (02)</b>	Digital Control Systems (R42021)	Advanced Control Systems (R42022), Extra High Voltage Transmission (R42023), Special Electrical Machines (R42024)	Non Conventional Sources of Energy (R42025), Digital Signal Processing (R42026), FACTS: Flexible Alternating Current Transmission Systems (R42027)	OOPS through Java (R42028), UNIX and Shell Programming (R42029), AI Techniques (R4202A)
<b>Mechanical Engineering (03)</b>	Interactive Computer Graphics (R42031)	Metal Corrosion (R42032), Nanotechnology (R42033), Automation in Manufacturing (R42034), Industrial Hydraulics & Pneumatics (R42035)	Production Planning and Control (R4203A) ( <b>Common to ME &amp; AME</b> ), Advanced Optimization Techniques(R4203B)	Non Destructive Evaluation (R42036), Data Base Management Systems (R42037)( <b>Common to ME, EIE &amp; AE</b> ), Advanced Materials (R42038), Power Plant Engineering(R42039),Quality and Reliability Engineering (R4203D) (Common to ME & AME), Robotics (P42033)
<b>Electronics &amp; Communication Engineering (04)</b>	Cellular and Mobile Communications (R42041), Optical Communications (P42041)	Network Security & Cryptography (R42042) (Common to ECE & ECM), Satellite Communications(R42043), Digital Control Systems (R42044) ( <b>Common to ECE &amp; EIE</b> )	Analytical Instrumentation (R42048), Real Time Operating Systems (R42049) ( <b>Common to ECE, EIE &amp; ECM</b> ), TV Engineering (R4204A), Embedded Systems (P42042)	Operating Systems (R42045), Structured Digital Design (R42046) ( <b>Common to ECE &amp; ECM</b> ), <b>Wireless Sensor Networks (R42047) (Common to ECE &amp; ECM)</b>

Branch	12-09-2022 (Monday)	14-09-2022 (Wednesday)	16-09-2022 (Friday)	19-09-2022 (Monday)
<b>Computer Science &amp; Engineering (05)</b>	Distributed Systems (R42051)	Human Computer Interaction (R42052) <b>(Common to CSE &amp; IT)</b> , Advanced Operating Systems (R42053) <b>(Common to CSE &amp; IT)</b> , Mobile Adhoc & Sensor Networks (R42054) <b>(Common to CSE &amp; IT)</b> , Pattern Recognition (R42055) <b>(Common to CSE &amp; IT)</b> , Digital Image Processing (R42056) <b>(Common to CSE &amp; IT)</b>	Embedded and Real Time Systems (R42057) <b>(Common to CSE &amp; IT)</b> , Simulation Modeling (R42058) <b>(Common to CSE &amp; IT)</b> , Information Retrieval Systems (R42059), Artificial Intelligence (R4205A), Multimedia & Application Development (R4205B) <b>(Common to CSE &amp; IT)</b>	Software Testing Methodologies (R4205C) <b>(Common to CSE &amp; IT)</b> , Neural Networks & Soft Computing (R4205D) <b>(Common to CSE &amp; IT)</b> , Social Networks and the Semantic Web (R4205E) <b>(Common to CSE &amp; IT)</b> , Parallel Computing (R4205F), E-Commerce (R4205G) <b>(Common to CSE &amp; IT)</b>
<b>Chemical Engineering (08)</b>	Industrial Safety & Hazard Management (R42081)	Multicomponent Distillation (R42082), Fluidization Engineering (R42083), Corrosion and its Control (R42084)	Computational Fluid Dynamics (R42085) <b>(Common to Chemical &amp; PE)</b> , Optimization of Chemical Processes (R42086), Nuclear Reactor Engineering (R42087)	Petroleum Refining & Petrochemical Engineering (R42088), Air Pollution Control Engineering (R42089), Energy Engineering(R4208A)
<b>Electronics &amp; Instrumentation Engineering (10)</b>	Industrial Electronics (R42101)	Embedded Systems (R42102), Virtual Instrumentation (R42103), Digital Control Systems (R42044) <b>(Common to ECE &amp; EIE)</b>	Robotics & Automation (R42104) <b>(Common to EIE &amp; BME)</b> , Digital Image Processing (R42105), Real Time Operating Systems (R42049) <b>(Common to ECE, EIE &amp; ECM)</b>	Analog IC Design (R42106), Data Base Management Systems (R42037) <b>(Common to ME, EIE &amp; AE)</b> , Artificial Neural Networks (R42107)
<b>Bio Medical Engineering</b>	Bio MEMS (R42111)	Embedded & Real Time Systems (R42112), Medical Informatics(R42113), Hospital System Management (R42114)	Robotics & Automation (R42104) <b>(Common to EIE &amp; BME)</b> , Computer Graphics(R42118), Prosthetics(R42119)	Biomaterials (R42115), Tissue Engineering (R42116), Quantitative Engineering Physiology (R42117)
<b>Information Technology (12)</b>	Software Project Management (R42121)	Human Computer Interaction (R42052) <b>(Common to CSE &amp; IT)</b> , Advanced Operating Systems (R42053) <b>(Common to CSE &amp; IT)</b> , Mobile Adhoc & Sensor Networks (R42054) <b>(Common to CSE &amp; IT)</b> , Pattern Recognition (R42055) <b>(Common to CSE &amp; IT)</b> , Digital Image Processing (R42056) <b>(Common to CSE &amp; IT)</b>	Embedded and Real Time Systems (R42057) <b>(Common to CSE &amp; IT)</b> , Simulation Modeling (R42058) <b>(Common to CSE &amp; IT)</b> , Computer Forensics(R42122), Machine Learning(R42123), Multimedia & Application Development (R4205B) <b>(Common to CSE &amp; IT)</b>	Software Testing Methodologies (R4205C) <b>(Common to CSE &amp; IT)</b> , Neural Networks & Soft Computing (R4205D) <b>(Common to CSE &amp; IT)</b> , Social Networks and the Semantic Web (R4205E) <b>(Common to CSE &amp; IT)</b> , Cloud Computing (R42124), E- Commerce (R4205G) <b>(Common to CSE &amp; IT)</b>

Branch	12-09-2022 (Monday)	14-09-2022 (Wednesday)	16-09-2022 (Friday)	19-09-2022 (Monday)
<b>Electronics &amp; Computer Engineering (19)</b>	Automata Theory & Compiler Design (R42191)	Language Processors (R42194), Data Warehousing and Data Mining (R42196), Network Security and Cryptography (R42042) (Common to ECE & ECM)	E M I/ E M C (R42195), Real Time Operating Systems (R42049) (Common to ECE, EIE & ECM)	Web Design (R42192), Fuzzy Logic and Neural Networks (R42193), Structured Digital Design (R42046) (Common to ECE & ECM), Wireless Sensor Networks (R42047) (Common to ECE & ECM)
<b>Aeronautical Engineering (21)</b>	Aircraft Systems and Instrumentation (R42211)	Rockets and Missiles (R42212), Propellant Technology (R42213), Industrial Aerodynamics (R42214)	Fatigue & Fracture Mechanics (R42215), Aircraft Maintenance Management (R42216), Aeroelasticity (R42217)	Air Line Management (R42218), Helicopter Engineering (R42219), Data Base Management Systems (R42037) (Common to ME, EIE & AE)
<b>Bio Technology</b>	Animal Cell Science and Technology (R42231)	Creativity Innovation and Product Development (R42232), Nano Biotechnology (R42233), Metabolic Engineering (R42234)	Food Science and Technology (R42235), Molecular Modeling and Drug Design (R42236), Bio Process Economics and Plant Design (R42237)	Biopharmaceutical Technology (R42238), Phytochemicals and Herbal Medicine (R42239), Bioprocess Optimization (R4223A), Enzyme Engineering (R4223B)
<b>Automobile Engineering (24)</b>	Automotive Control Systems (R42241)	Computational Fluid Dynamics (R42242), Operations Research (R42243)	Production Planning & control (R4203A) (Common to ME & AME), Principles of Entrepreneurship (R42246), Simulation of SI & CI Engine (R42247)	Automation in Manufacturing (R42244), Automotive Air Conditioning (R42245), Gas Dynamics & Jet propulsion (R4203C) (Common to ME & AME), Quality and Reliability Engineering (R4203D) (Common to ME & AME)
<b>Mining Engineering (26)</b>	Production Planning and Control (R42261)	Deep Sea mining (R42262), Mine Construction (R42263), Tunneling Engineering (R42264)	Planning of Under Ground Metal Mining Project (R42265), Planning of Under Ground Coal Mining Project (R42266), Planning of Surface Mining Project (R42267)	Maintenance & Reliability Engineering (R42268), Rock Excavation Engineering (R42269), Mine Health & Safety Engineering (R4226A)
<b>Petroleum Engineering (27)</b>	Petroleum Economics, Policies & Law (R42271)	Reservoir Modeling & Simulation (R42272), Horizontal Well Technology (R42273), Reservoir Stimulation (R42274)	Chemical Reaction Engineering (R42278), Computational Fluid Dynamics (R42085) (Common to Chemical & PE), Petroleum Biotechnology (R42279)	Separation Processes (R42275), Natural Gas Processing (R42276), Natural Gas Hydrates (R42277)

**NOTE:**

- i) Any omissions or clashes in this table may please be informed to the controller of examination 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: 29.08.2022

*Robert A. Kelly*  
Controller of Examinations

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

**IV B.TECH II SEMESTER (OR, RR, NR, R05, R07) - SPECIAL SUPPLEMENTARY EXAMINATIONS, SEPTEMBER - 2022**

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

**TIME: 02.00 PM TO 05.00 PM**

BRANCHES	DATE & DAY					
	12-09-2022 (Monday)	14-09-2022 (Wednesday)	16-09-2022 (Friday)	19-09-2022 (Monday)	21-09-2022 (Wednesday)	23-09-2022 (Friday)
<b>CE (01)</b>	Pre stressed Concrete K0105 (R05)  Environmental Impact Assessment And Management K0123 (R07)	Prestressed Concrete K0125 (R07)	Advanced Structural Analysis K0128 (R07)	---	---	---
<b>EEE (02)</b>	Unix & Windows Nt B4205 – (NR) Utilization of Electrical Energy K0201 (R05) Utilization Of Electrical Energy K0201 (R05) Utilization Of Electrical Energy K0221 (R07) Utilization Of Electrical Energy K0221 (R07)	Embedded Systems K0204 (R05)  Advanced Control Systems K0222 (R07)  Advanced Control Systems K0222 (R07)	Oops Through Java K0205 (R05)  Digital Control Systems K0223 (R07)  Database Management Systems K0227 (R07)	Database Management Systems L0202 (R05) Object Oriented Programming K0226 (R07) Utilization of Electrical Energy K0221 (R07)	HVDC Transmission - K0203(R05)  Database Management Systems K0227 (R07)  Digital Control Systems K0223 (R07)	---
<b>ME (03)</b>	Robotics - G9905 (RR)  Neural Networks And Fuzzy Logic Systems K0322 (R07)	Finite Element Methods G9903 (RR)  Computer Organization And Architecture K0325 (R07)	Total Quality Management L0305 (R05)	Production Planning & Control L0303 – (R05)	Tribology K0323 (R07)	---

BRANCHES	12-09-2022 (Monday)	14-09-2022 (Wednesday)	16-09-2022 (Friday)	19-09-2022 (Monday)	21-09-2022 (Wednesday)	23-09-2022 (Friday)
<b>ECE (04)</b>	Cellular & Mobile Communications L0401 (R05)  Optical Communications K0421 (R07)	Embedded And Real Time Systems L0402 (R05)  Artificial Neural Networks K0423 (R07)  Wireless Communications And Networks L0423 (R07)	Wireless Communications And Networks L0403 (R05)  Embedded And Real Time Systems L0421 (R07)	Digital Design Through Verilog L0404 (R05)  Digital Design Through Verilog L0422 (R07)	DSP Processors & Architectures L0405 (R05)  Wireless Communications And Networks L0423 (R07)	DSP Processors And Architectures L0424 (R07)  Cellualr And Mobile Communicatio ns S7332 (R07)
<b>CSE (05)</b>	Cellular & Mobile Comm. - G9907 (RR)  Environmental Studies - ENV42 (R05)  E-Commerce K0522 (R07)	Management Science L0501 (R05)  Distributed Databases - K0503 (R05)  Human Computer Interaction K0525 (R07)	---	Human Computer Interface - K0505 (R05)	Management Science L0521 (R07) (Common to CSE,IT)	---
<b>EIE (10)</b>	Micro Controllers & Applications L1001 (R05)	---	---	---	---	---
<b>IT (12)</b>	Multimedia Databases K1221 (R07)	---	Client Server Computing G1203 (RR)  Pattern Recognition K1225 (R07)	Cellular & Mobile Comm. G9907 (RR)  Network Management Systems K1222 (R07)	Management Science L0521 (R07) (Common to CSE,IT)	---

- NOTE**
- (i) ANY OMISSIONS OR CLASHES IN THIS TIME TABLE MAY PLEASE BE INFORMED TO THE CONTROLLER OF EXAMINATIONS IMEDIATELY.
  - (ii) EVEN IF GOVERNMENT DECLARES HOLIDAY ON ANY OF THE ABOVE DATES, THE EXAMINATIONS SHALL BE CONDUCTED AS USUAL.
  - (iii) FOR ANY OTHER CLARIFICATION IN RESPECT OF THE ABOVE EXAMINATIONS PLEASE CONTACT CONTROLLER OF EXAMINATIONS /OR 9652300902.

**(All the above Examinations will be conducted at University College of Engineering, JNTUK, Kakinada only)  
(The Hall Tickets will be placed at [www.jntukexams.net](http://www.jntukexams.net))**

*Robert A. Kelly*

**Controller of Examinations**

**DATE: 29-08-2022**