



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

**III B.TECH II SEMESTER (R19 REGULATION) SUPPLEMENTARY EXAMINATIONS, NOVEMBER - 2022**

**TIME TABLE**

**TIME: 10.00 AM TO 01.00 PM**

BRANCH	DATE & DAY					
	15-11-2022 (Tuesday)	17-11-2022 (Thursday)	19-11-2022 (Saturday)	22-11-2022 (Tuesday)	24-11-2022 (Thursday)	26-11-2022 (Saturday)
<b>CIVIL ENGINEERING (01 CE)</b> Design & Drawing of Reinforced Concrete Structures (R1932011)		Water Resources Engineering – II (R1932012)	Geotechnical Engineering - I (R1932013)	Managerial Economics & Financial Analysis (R1932014)	<b>Program Elective – II :-</b>	<b>Open Elective – II (Choose any One</b>
					i) Pre-stressed Concrete (R193201A)	i) Disaster Management (R193201F)
					ii) Watershed Management (R193201B)	ii) Environmental Pollution & Control (R193201G)
					iii) Advanced Foundation Engineering (R193201C)	iii) Elements of Civil Engineering (R193201H)
					iv) Urban Transportation Planning (R193201D)	iv) Green Technology (R193201I)
					v) Architecture Town Planning (R193201E)	v) Smart Cities (R193201J)
						vi) Project Management (R193201K)
						vii) Traffic Safety (R193201L)
						viii) Geo-Spatial Technologies (R193201M)
	ix) Wastewater Treatment (R193201N)					
<b>ELECTRICAL AND ELECTRONICS ENGINEERING (02 EEE)</b> Electric Drives (R1932021)		Power System Analysis (R1932022)	Data Structures (R1932023)	Digital Control Systems (R1932024)	<b>Elective – I :-</b>	<b>Open Elective – I</b>
					i) Digital IC Applications (R193202A)	i) Renewable Energy Sources (R193202G) (Except EEE)
					ii) Communication Systems (R193202B)	ii) Essentials of Analog and Digital Electronics (R193202H) (Except EEE)
					iii) Computer Networks (R193202C)	iii) Electrical Estimation and Costing (R193202I) (Except EEE)
					iv) Internet of Things Applications To Electrical Engineering (R193202D)	iv) Power Electronics Devices & Circuits (R193202J) (Except EEE)
					v) VLSI Design (R193202E)	v) Fundamentals of Electrical Machines (R193202K) (Except EEE)
					vi) Cloud Computing (R193202F)	



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<b>MECHANICAL ENGINEERING (03 ME)</b>	Operations Research (R1932031)	Heat Transfer (R1932032) (Common to ME,AME)	CAD/CAM (R1932033)	.....	<b>Elective – I :-</b>	<b>Elective – II</b>
					i) Composite Materials (R193203A)	i) Material Characterization (R193203F)
					ii) Refrigeration & Air Conditioning (R193203B)	ii) Tribology (R193203G)
					iii) Unconventional Machining Processes (R193203C)	iii) Automobile Engineering (R193203H)
					iv) Advanced Mechanics of Solids (R193203D)	iv) Mechatronics (R193203I)
					v) MOOCS(NPTEL/Swayam) (R193203E)	v) MOOCS(NPTEL/Swayam) (R193203J)
<b>ELECTRONICS &amp; COMMUNICATION ENGINEERING (04 ECE)</b>	Wired and Wireless Transmission Devices (R1932041)	VLSI Design (R1932042)	Digital Signal Processing (R1932043)	Internet of Things (R1932044)	<b>Professional Elective (PE II) :-</b>	<b>Open Elective (OE1)</b>
					i) Cellular & Mobile Communication (R193204A)	i) Data Mining (R193204F)
					ii) Digital IC Design (R193204B)	ii) Power Electronics (R193204G)
					iii) Business Intelligence & Analytics (R193204C)	iii) MEMS and its Applications (R193204H)
					iv) Pattern Recognition(R193204D)	iv) Artificial Neural Networks(R193204I)
					v) Robotics and Automation (R193204E)	iv) Principles of Communication (R193204J) (Except ECE)
<b>COMPUTER SCIENCE &amp; ENGINEERING (05 CSE)</b>	Web Technologies (R1932051) (Common to CSE,IT)	Distributed Systems (R1932052)	Design and Analysis of Algorithms (R1932053)	Managerial Economics and Financial Accountancy (R1932054) (Common to CSE,IT)	<b>Professional Elective (PE II) :-</b>	<b>Open Elective (OE I) :-</b>
					i) Mobile Application Development (R193205A)	i) Data Structures (R193205E) (Except CSE and IT)
					ii) Information Retrieval System (R193205B)	ii) Java Programming (R193205F) (Except CSE and IT)
					iii) Social Networks Analysis (R193205C)	iii) Database Management Systems (R193205G) (Except CSE and IT)
					iv) MOOCS (NPTEL/SWAYAM) (R193205D)	iv) C++ Programming (R193205H) (Except CSE and IT)
						v) Operating Systems (R193205I) (Except CSE and IT)
						vi) Internet of Things (R193205J) (Except CSE and IT)



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<b>INFORMATION TECHNOLOGY (12 IT)</b>	Web Technologies (R1932051) (Common to CSE,IT)	Data Warehousing and Data Mining (R1932121)	.....	Managerial Economics and Financial Accountancy (R1932054) (Common to CSE,IT)	<b>Professional Elective (PE II) :-</b>	<b>Open Elective (OE I) :-</b>
					i) Web Security (R193212A)	i) Data Structures (R193205E) (Except CSE and IT)
					ii) Software Project Management (R193212B)	ii) Java Programming (R193205F) (Except CSE and IT)
					iii) Natural Language Processing (R193212C)	iii) Database Management Systems (R193205G) (Except CSE and IT)
					iv) MOOCS (NPTEL/SWAYAM)(R193212D)	iv) C++ Programming (R193212E) (Except CSE and IT)
						v) Operating Systems (R193212F) (Except CSE and IT)
	vi) Internet of Things (R193212G) (Except CSE and IT)					
<b>AUTO MOBILE ENGINEERING (24 AME)</b>	Electrical Vehicles & Hybrid Technology (R1932241)	Heat Transfer (R1932032) (Common to ME,AME)	Automotive Chassis Design (R1932242)	Automotive Pollution and Control (R1932243)	.....	<b>OPEN ELECTIVE(offered to other</b>
						i) Basic Automobile Engineering (R193224A)
						ii) Automotive Maintenance and Safety (R193224B)
						iii) Automotive Emissions and Effects (R193224C)
<b>MINING ENGINEERING (26 MM)</b>	Mine Ground Control (R1932261)	Mineral processing (R1932262)	Under Ground Metal Mining Technology (R1932263)	Mining Machinery & Mechanization-II (R1932264)	.....	<b>Open Elective - II</b>
						i) Industrial Robotics (R193226A)
						ii) Artificial Intelligence (R193226B)
						iii) Introduction to Data Base Management System (R193226C)
<b>PETROLEUM ENGINEERING/ PETROLEUM TECHNOLOGY (27 PE)</b>	Petroleum Production Engineering (R1932271)	Petroleum Reservoir Engineering-II (R1932272)	Petroleum Refinery & Petrochemical Engineering (R1932273)	.....	<b>Professional Elective (PE II) :-</b>	<b>OPEN ELECTIVE – II</b>
					i) Offshore Engineering (R193227A)	i) Basic concepts in Petroleum Drilling and Completions (R193227D)
					ii) Advanced Well Completion Engineering (R193227B)	ii) Basic concepts in Petroleum Production Engineering (R193227E)
					iii) Applied Mathematics in Reservoir Engineering(R193227C)	iii) Basic concepts in Petroleum Reservoir Engineering (R193227F)

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AGRICULTURAL ENGINEERING (35 AGE)	Irrigation and Drainage Engineering (R1932351)	Engineering Properties of Biological Materials (R1932352)	Farm Machinery Equipment - II (R1932353)	Dairy and Food Engineering (R1932354)	Professional Elective - I	Open Elective - I
					i) Seed Processing and Storage Engineering (R193235A)	i) Operations Research (R193235D)
					ii) Greenhouse Technology (R193235B)	ii) Robotics and Automation (R193235E)
					iii) Tractor Design and Testing (R193235C)	iii) Finite Element Method (R193235F)

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**Controller of Examinations****DATE: 02-11-2022**



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA**

UNIVERSITY EXAMINATION CENTER, KAKINADA

**III B TECH - II SEMESTER (R16 REGULATION) SUPPLEMENTARY EXAMINATIONS, NOVEMBER - 2022**

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

**TIME: 10.00 AM TO 01.00 PM**

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	15-11-2022 (Tuesday)	17-11-2022 (Thursday)	19-11-2022 (Saturday)	22-11-2022 (Tuesday)	24-11-2022 (Thursday)
<b>CIVIL ENGINEERING (01-CE)</b>	Design and Drawing of Steel Structures (R1632011)	Geotechnical Engineering – I (R1632012)	Environmental Engineering – I (R1632013)	Water Resources Engineering–I (R1632014)	<b><u>OPEN ELECTIVE:-</u></b>
					Electronic Instrumentation
					Data Base Management Systems
					Alternative Energy Sources for Automobiles
					Waste water Management
					Fundamentals of Liquefied Natural Gas
<b>ELECTRICAL AND ELECTRONICS ENGINEERING (02-EEE)</b>	Power Electronic Controllers & Drives (R1632021)	Power System Analysis (R1632022)	Micro Processors and Micro controllers (R1632023)	Data Structures (R1632024)	<b><u>OPEN ELECTIVE:-</u></b>
					Unix and Shell Programming
					OOPS Through JAVA
					VLSI Design
					Robotics
					Neural Networks & Fuzzy Logic
<b>MECHANICAL ENGINEERING (03-ME)</b>	Metrology (R1632031)	Instrumentation & Control Systems (R1632032)	Refrigeration & Air-conditioning (R1632033)	Heat Transfer - (R1632034)	<b><u>OPEN ELECTIVE:-</u></b>
					Entrepreneurship
					Data Base Management System
					Waste Water Management
					Computer Graphics
					Industrial Robotics
<b>ELECTRONICS &amp; COMMUNICATION ENGINEERING (04-ECE)</b>	Micro Processors & Micro Controllers (R1632041) (Common to ECE, EIE, E.COM.E)	Micro Wave Engineering (R1632042)	VLSI Design (R1632043) (Common to EEE- elective, ECE, EIE, E.COM.E)	Digital Signal Processing (R1632044)	<b><u>OPEN ELECTIVE:-</u></b>
					OOPs through Java
					Data Mining
					Industrial Robotics
					Power Electronics
					Bio-Medical Engineering
Artificial Neural Networks					



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<b>COMPUTER SCIENCE &amp; ENGINEERING (05-CSE)</b>	Computer Networks (Common to CSE, IT) (R1632051)	Data Warehousing and Mining (Common to CSE,IT) (R1632052)	Design and Analysis of Algorithms (R1632053)	Software Testing Methodologies (Common to CSE, IT) (R1632054)	<b>OPEN ELECTIVE:-</b>
					Artificial Intelligence
					Internet of Things
					Cyber Security
					Digital Signal Processing
					Embedded Systems
<b>ELECTRONICS AND INSTRUMENTATION ENGINEERING (10-EIE)</b>	Micro Processors & Micro Controllers (R1632041) (Common to ECE, EIE, E.COM.E)	Measuring Instruments (R1632102)	VLSI Design (Common to EEE- elective, ECE, EIE, E.COM.E) (R1632043)	Analytical Instrumentation (R1632101)	<b>OPEN ELECTIVE:-</b>
					OOPs through Java
					Data Mining
					Power Electronics
					Bio-Medical Engineering
					Artificial Neural Networks
<b>INFORMATION TECHNOLOGY (12-IT)</b>	Computer Networks (Common to CSE, IT)(R1632051)	Data Mining (R1632121)	Web Technologies (R1632122)	Software Testing Methodologies (Common to CSE, IT) (R1632054)	<b>OPEN ELECTIVE:-</b>
					Artificial Intelligence
					Social Networks and Semantic Web
					Digital Signal Processing
					Embedded Systems
					Robotics
Operations Research					



# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

III B.TECH II SEMESTER (R16)

## III B TECH - II SEMESTER (R16 REGULATION) SUPPLEMENTARY EXAMINATIONS, NOVEMBER - 2022

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<b>ELECTRONICS AND COMPUTER ENGINEERING (19-ECC)</b>	Micro Processors & Micro Controllers <b>(R1632041)</b> (Common to ECE, EIE, E.COM.E)	Operating System <b>(R1632192)</b>	VLSI Design (Common to ECE, EIE, E.COM.E) <b>(R1632043)</b>	Data Base Management Systems <b>(R1632191)</b>	<u><b>OPEN ELECTIVE:-</b></u>
					Data Mining
					Industrial Robotics
					Bio-Medical Engineering
					Artificial Neural Networks
<b>AERONUTICAL ENGINEERIG (21-AE)</b>	Aircraft stability and control <b>(R1632211)</b>	Aircraft Structures -II <b>(R1632212)</b>	Propulsion – II <b>(R1632213)</b>	Finite Element Method <b>(R1632214)</b>	<u><b>OPEN ELECTIVE:-</b></u>
					Data Base Management System
					Waste Water Management
					Entrepreneurship
					Satellite Technology
					Industrial Aerodynamics
Theory of Elasticity					
<b>AUTO MOBILE ENGINEERING (24-AME)</b>	Machine Tools & Metrology <b>(R1632241)</b>	Instrumentation & Control Systems <b>(R1632242)</b>	Automotive Electrical and Electronics <b>(R1632243)</b>	Alternative Energy Sources for Automobiles <b>(R1632244)</b>	<u><b>OPEN ELECTIVE:-</b></u>
					Electronic Instrumentation
					Data Base Management Systems
					Computer Graphics
					Green Engineering Systems
					Offroad Vechiles
Automotive Emissions and Pollution Control					



III B.TECH II SEMESTER (R16)

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<b>MINING ENGINEERING (26-MM)</b>	Mine Systems Engineering (R1632261)	Mineral Engineering and Fuel Technology (R1632262)	Mine Environmental Engineering (R1632263)	Mining Machinery & Mechanization – II (R1632264)	<b>OPEN ELECTIVE:-</b>
					Industrial Robotics
					Entrepreneurship
					Quality and Reliability Engineering
					Waste Water Management
					Rock Excavation Engineering
<b>PETROLEUM ENGINEERING/PETROLEUM TECHNOLOGY (27-PE)</b>	Well Completions, Testing & Servicing - (R1632271)	Petroleum Production Engineering (R1632272)	Petroleum Reservoir Engineering-I (R1632273)	Petroleum Refinery & Petrochemical Engineering (R1632274)	<b>OPEN ELECTIVE:-</b>
					Electronic Instrumentation
					Big Data Analytics
					Alternative Energy Sources for Automobiles
					Waste Water Management
					Fundamentals of Liquefied Natural Gas
<b>AGRICULTURAL ENGINEERING (35-AGE)</b>	Irrigation and Drainage Engineering (R1632351)	Farm Machinery and Equipment – I (R1632352)	Design of Soil, Water Conservation and Farm Structures (R1632353)	Dairy and Food Engineering (R1632354)	<b>OPEN ELECTIVE:-</b>
					Operations Research
					Digital Control systems
					Robotics & Automation
					Industrial Pollution Control Engineering
					Finite Element Method
Water Resources System Planning and Management					

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DATE: 02-11-2022

*Pradeep A. Reddy*  
Controller of Examinations





# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

## III B TECH - II SEMESTER (R13 REGULATION) SUPPLEMENTARY EXAMINATIONS, NOVEMBER - 2022

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CIVIL ENGINEERING (01- CE)	Environmental Engineering - I RT32011	Geotechnical Engineering - II RT32012	Design and Drawing of Steel Structures RT32013	Water Resources Engineering-I RT32014	Transportation Engineering - II RT32015	<b>Open Elective</b>	----
ELECTRICAL AND ELECTRONICS ENGINEERING (02 - EEE)	Microprocessors & Microcontrollers RT32021	Switchgear and Protection RT32022	Utilization of Electrical Energy RT32023	Power System Analysis RT32024	Management Science (comm to EEE and CHEM) RT32025	Power Semiconductor Drives RT32026	----
MECHANICAL ENGINEERING (03 - ME)	Operations Research RT32031	Interactive Computer Graphics RT32032	Design of Machine Members- II RT32033	Robotics RT32034	Heat Transfer RT32035	Industrial Engineering Management RT32036	<b>Departmental Elective</b>
ELECTRONICS & COMMUNICATIONS ENGINEERING (04 - ECE)	Microprocessors and Microcontrollers (Com to ECE,EIE and E.Comp.E) RT32041	Digital Signal Processing RT32042	Digital Communications RT32043	Microwave Engineering RT32044	----	<b>Open Elective</b>	----
COMPUTER SCIENCE ENGINEERING (05 - CSE)	Software Engineering RT32051	Data Ware Housing and Mining (Comm to CSE,IT) RT32052	Computer Networks (Comm to CSE,IT) RT32053	Design and Analysis of Algorithms (Comm to CSE,IT) RT32054	Web Technologies (Comm to CSE,IT) RT32055	IPR and Patents (COMM TO CSE, IT, CHEM, PE)	----

III B.TECH II SEMESTER (R13)

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CHEMICAL ENGINEERING (08 - CHEM)	Process Engineering Economics RT32081	Mass Transfer Operations – II RT32082	Chemical Reaction Engineering-II RT32083	Process Dynamics & Control RT32084	Management Science (comm to EEE and CHEM) RT32025	IPR and Patents (COMM TO CSE, IT, CHEM, PE) RT32056	-----
ELECTRONICS AND INSTRUMENTATION ENGINEERING (10- EIE)	Micro Processors and Micro Controllers (Com to ECE,EIE and E.Comp.E) RT32041	Analytical Instrumentation RT32102	Measuring Instruments RT32103	Process Instrumentation RT32104	-----	<b>Open Elective</b>	-----
INFORMATION TECHNOLOGY (12 - IT)	Software Testing RT32121	Data Ware Housing and Mining (Comm to CSE,IT) RT32052	Computer Networks (Comm to CSE,IT) RT32053	Design and Analysis of Algorithms (Comm to CSE,IT) RT32054	Web Technologies (Comm to CSE,IT) RT32055	IPR and Patents (COMM TO CSE, IT, CHEM, PE) RT32056	-----
ELECTRONICS AND COMPUTER ENGINEERING (19 - ECC)	Micro Processors and Micro Controllers (Com to ECE,EIE and E.Comp.E) RT32041	Data Base Management Systems RT32192	Computer Networks RT32193	VLSI Design RT32194	Operating Systems RT32195	<b>Open Elective</b>	-----
AERONAUTICAL ENGINEERING (21 - AE)	Flight Mechanics –II RT32211	Aerospace Vehicle Structures –II RT32212	Aerospace Propulsion – II RT32213	Flight Vehicle Design RT32214	System Modeling And Simulation RT32215	<b>Departmental Elective</b>	-----

III B.TECH II SEMESTER (R13)

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AUTOMOBILE ENGINEERING (AME-24)	Machine Tools & Metrology RT32241	Instrumentation & Control Systems RT32242	Automotive Electrical and Autotronics RT32243	Alternative Energy sources for Automobiles RT32244	Product Design and Assembly Automation RT32245	<b>Departmental Elective</b>	-----
MINING ENGINEERING (26-MM)	Mine Systems Engineering RT32261	Mineral Engineering & Fuel Technology RT32262	Mine Environmental Engineering-II RT32263	Mining Machinery RT32264	Under Ground Metal Mining Technology RT32265	<b>Departmental Elective</b>	-----
PETROLEUM ENGINEERING (27-PE)	Well Completions RT32271	Petroleum Reservoir Engineering – I RT32272	Petroleum Production Engineering & Design RT32273	Petroleum Refinery & Petrochemical Engineering RT32274	Surface Production Operations RT32275	IPR and Patents (COMM TO CSE, IT, CHEM, PE) RT32056	-----
AGRICULTURAL ENGINEERING (35-AGE)	Irrigation and Drainage Engineering RT32351	Farm Machinery and Equipment – I RT32352	Design of Soil, Water Conservation and Farm Structures RT32353	Dairy and Food Engineering RT32354	Theory of Structures RT32355	<b>Open Elective</b>	-----

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