

# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY - HYDERABAD – 5000 85

EXAMINATION BRANCH

**IV YEAR B.TECH - I SEMESTER– R09 REGULATION SUPPLEMENTARY EXAMINATIONS DEC-2019**

## TIME TABLE

TIME → AN:2.00 PM TO 5:00 PM

BRANCH	03-12-2019 TUESDAY	05-12-2019 THURSDAY	07-12-2019 SATURDAY	10-12-2019 TUESDAY	12-12-2019 THURSDAY	14-12-2019 SATURDAY	17-12-2019 TUESDAY	19-12-2019 THURSDAY	21-12-2019 SATURDAY
<b>CIVIL ENGINEERING (01-C E)</b>	Ground Water Development And Management	Watershed Management	Estimating & Costing	Pavement Design	Disaster Management and mitigation	Advanced Foundation Engineering	Advanced Structural Design	GIS and Remote Sensing	--
	Elements of Earthquake Engineering				Finite Element Methods				
					Water Resources planning and management				
<b>ELECTRICAL AND ELECTRONICS ENGINEERING (02-E E E)</b>	--	Utilization of Electrical Energy	Instrumentat ion	Power System Operation And Control	Digital Control Systems	Optimization Techniques	Switch Gear and Protection	VLSI Design	
					High Voltage Engineering	Electrical Distribution Systems			
						Principles Of Digital Signal Processing			

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<b>MECHANICAL ENGINEERING (03-M E)</b>	OPERATIONS RESEARCH	Power Plant Engineering	CAD/CAM	Instrumentation and Control Systems	Robotics	Unconventional Machining Processes	CNC Technology	--	----
					Mechanical Vibrations				
					Mechatronics	Automation in Manufacturing			
					Composite Materials	Design for Manufacturing			
<b>ELECTRONICS AND COMMUNICATIONS ENGINEERING (04-E C E)</b>	Management Science	Microwave Engineering	Tele Communication switching Systems	Multimedia and Signal Coding	EMI EMC	Television Engineering	Computer Networks	VLSI Design	Digital Image Processing
						Optical Communications			
					DSP Processors and Architecture	Embedded Systems			

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<b>COMPUTER SCIENCE AND ENGINEERING (05-C S E)</b>	Design Patterns	Software Testing Methodolo gies	Linux Programmi ng	Cloud Computing	Data Warehousing and Data Mining	Machine Learning	Information Retrieval Systems	Computer Graphics	----
				Distributed Computing		Soft Computing			
				Mobile Computing					
				Advanced Computer Architecture					
<b>CHEMICAL ENGINEERING (08-C H E M)</b>	Transport Phenomena	Process Dynamics & Control	Chemical Process Equipment Design	Process Modeling and Simulation	Industrial Safety and Hazard Management	Polymer Technology	--	--	----
						Petroleum and Petrochemic al Technology			
						Environment al Bio Technology			

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<b>ELECTRONICS AND INSTRUMENTATION ENGINEERING (10-E I E)</b>	Analytical Instrumentation	Bio Medical Instrumentation	Digital Signal Processing	Telemetry and Telecontrol	Digital Control Systems	Embedded and Realtime Systems	Computer Networks	VLSI Design	----
				Optoelectronics & Laser Instrumentation					
				Robotics and Automation					
<b>BIO-MEDICAL ENGINEERING (11-B M E)</b>	Artificial Neural Networks		Micro processors and Micro Controllers	Image processing and Pattern Recognition	DSP Processors & Architectures	Embedded & Real Time Systems	Computer Networks	VLSI Design	Rehabilitation Engineering
	Artificial Intelligence								
	Tele Medicine								

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INFORMATION TECHNOLOGY (12- IT)	Semantic Web and Social Networks	Software Testing Methodolog ies	Object Oriented Analysis and Design	Mobile Application Developme nt	Human Computer Interaction	Soft Computing	Information Retrieval Systems	VLSI Design	----
	Wireless Networks and Mobile Computing				Multimedia and Rich Internet Applications				
	Image processing and Pattern Recognition				Scripting Languages				

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<b>MECHANICAL ENGINEERING (MECHATRONICS) (14-MCT)</b>	OPERATIONS RESEARCH	Power Plant Engineering	Microprocessors and Micro Controllers	Robotics & its applicati ons	E1 Renewable Energy Sources	Product Design and Assembly Automation	--	Motion Control Design	Flexible Manufacturin g System
		Computer Organization				Computati onal Fluid Dynamics			
		Advanced Kinematics and Dynamics of Machinery				Advanced Data Structures			
<b>ELECTRONICS AND TELEMATICS ENGINEERING (17-ETM)</b>	Management Science	Advanced Tele communicatio n Technologies	Electronic Measurements and Instrumentation	Multimedi a and Signal Coding	EMI EMC	Optical Communicati ons	Spread Spectrum Communicati ons	VLSI Design	E1 Digital Image Processing
						Digital Control Systems			
						Digital Signal Processors and Architectures			

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<b>METALLURGICAL AND MATERIAL ENGINEERING (18-M M T)</b>	Management Science	Electro Metallurgy and Corrosion	Steel Mining	Non Destructive Testing	Ceramic Science and Technology	X- Ray Diffraction	E1 Semi Conductors and Magnetic Materials	--	----
					Experimental Techniques and Metallography	Metallurgical Problems			
						Polymeric Materials			
<b>ELECTRONICS AND COMPUTER ENGINEERING~19</b>	Design Patterns	Web Technologies	Computer Graphics	Distributed systems	--	--	Computer Networks	VLSI Design	Digital Image Processing
	Artificial Neural Networks			Mobile Computing					
	Artificial Intelligence								
<b>AERONAUTICAL ENGINEERING (21-A E)</b>	Airframe Structural Design	Mechanical Vibrations and Structural Dynamics	CAD/CAM	Control Theory – Application to Flight Control Systems	Advanced Computational Aerodynamics	Space Mechanics	--	--	----
						Experimental Aerodynamics			
						Aircraft Maintenance Engineering			
					Flight Scheduling and Operations	Numerical Methods			
					Mechanisms and Mechanical Design				
Theory of Elasticity									

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<b>INSTRUMENTATION AND CONTROL ENGINEERING~22</b>	Computer aided Design of control Systems	Bio medical Instrumentation	Digital and optimal Control systems	Virtual Instrumentation	Instrumentation and Control in Manufacturing Systems	Embedded and Real Time Systems	Computer Networks	VLSI DESIGN	----
				Optoelectronics and Laser instrumentation					
				Telemetry and tele Control					
<b>BIO- TECHNOLOGY~23</b>	Computational Molecular Biology	Bioethics Biosafety And Intellectual Property Rights	Downstream Processing	Bioprocess Optimization and Plant Design	Structural Biology Cancer Biology Crop Improvement	Molecular Pathogenesis	----	----	----
						Biopharmaceuticals			
						Introduction To Bio Materials			

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<b>AUTOMOBILE ENGG. (24 – AME)</b>	OPERATION S RESEARCH	---	CAD/CAM	Instrumentati on and Control Systems	Mechatronic s	Microprocessor s and Micro Controllers	----	Automotive chassis and Suspension	Metrology & Surface Engineering
						Finite Element Methods			
					Automotive Pollution and Control	Vehicle Body Engineering and Safety			
					Mechanical Vibrations	Computational Fluid Dynamic			
<b>MINING ENGINEERING (25 – MIE)</b>	Mine Systems Engineering	Rock Mechanics	Mineral Processing	Mine Legislation	Rock Slope Engineering	Computer Applications in Mining	--	--	----
					Mine Subsidence Engineering	Mine Construction Engineering			
					Rock Excavation Engineering	Tunneling Engineering			
					Rock Fragmentatio n Engineering	Strata Control Technology			

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<b>MINING MACHINERY~2 6</b>	Mechanical Handling Transport Loading Equipment	Metrology And Machine Tools	Principals Of Tribology	Mine Electrical Engineering	Automobile Engineering	Maintenance Engineering	Underground Production Equipment	----	----
			Mechanical Systems Design			System Modeling And Simulation			
			Micro Processor And Micro Controllers						
<b>PETROLIUM ENGG. (27 – PTME)</b>	Pipeline Engineering	Petroleum Refinery & Petro Chemical	Oil & Gas Processing Plant Design	Health, Safety & Environment in Petroleum Industry	Numerical Methods For Modeling & Simulation	Computational Fluid Dynamics	--	--	----
						Offshore Engineering			
						Chemical Reaction Engineering			

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<b>CIVIL &amp; ENVIRONMENTAL ENGINEERING (28-C E E)</b>	Environmental Pollution Of Soil & Remediation	---	Estimating & Costing	Principles Of Environmental Chemistry And Microbiology	Finite Element Methods	—	----	GIS and Remote Sensing	Air Pollution and Control
	Principles Of Industrial Waste Management				Disaster Management And Mitigation Water				
	Design Of Water Supply Systems				Resources Planning And Management				
	Ground Water Development And Management								

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MECHANICAL ENGINEERING (MATERIAL SCIENCE & NANO TECHNOLOGY) (29 – MSNT)	OPERATIONS RESEARCH	---	CAD/CAM	Metrology Instrumentation	Mechatronics	Computational Fluid Dynamics	Modelling and Simulation in Materials Engineering	Carbon Nano Tubes and their Applications	----
					Mechanical Vibrations		Nano Sensors and Actuators		
					Automation In Manufacturing		MEMS/ NEMS Design and Applications Surface Engineering		

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AGRICULTURE ENGINEERING (30 - ACE)	Micro Irrigation Engineering	Watershed Management	Farm Machinery and Equipments-II	Agro Industries and Bi- product Utilization	Post Harvest Engineering for Horticulture Produce	Computational Fluid Dynamics	Food Processing Plant Design And Layout	----	----
		Mechanical Measurements and Instrumentation					Managerial Economics And Financial Analysis		
							Drying And Storage Engineering		

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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) READMITTED STUDENTS HAVE TO APPEAR FOR THE SUBSTITUTE SUBJECT(S) [WHICH IS/ARE NOT SHOWN IN THE TIME-TABLE] IN PLACE OF THE SUBJECT(S) ALREADY PASSED. FOR DETAILS OF SUBSTITUTE SUBJECTS REFER THE COMMUNICATIONS RECEIVED FROM THE DIRECTOR OF ACADEMIC & PLANNING.