

# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY-HYDERABAD-500085

EXAMINATION BRANCH

## M.TECH-I SEMESTER -R19 REGULATION- REGULAR EXAMINATIONS JANUARY-2020

### TIMETABLE

TIME: 10:00 AM TO 1:00 PM

Course	08-01-2020 WEDNESDAY	10-01-2020 FRIDAY	13-01-2020 MONDAY	18-01-2020 SATURDAY	21-01-2020 TUESDAY	23-01-2020 THURSDAY	25-01-2020 SATURDAY	28-01-2020 TUESDAY	
CAD/CAM-04	Elective-II	Elective-II		Elective-I	Computer Aided Manufacturing	MC	Elective-II	Advanced CAD	
	Computer Aided Process Planning	Automation in Manufacturing		Mechanical Behavior of Materials		Research Methodology and IPR			Industrial Robotics
				Experimental Stress Analysis					
				Additive Manufacturing Technologies					
COMPUTER SCIENCE-05	Mathematical Foundations of Computer Science	Advanced Data Structures	Elective-II	Elective-II		MC	Elective-I		
			Network Security	Cloud Computing		Research Methodology and IPR	Machine Learning		
				Data Mining			Mobile Application Development		
							Information Security		
DIGITAL SYSTEMS AND COMPUTER ELECTRONICS -06		Digital Systems Design with PLDs	Elective-II	VLSI Technology and Design	Elective-I	MC	Elective-II	Elective-I	
			Advanced Data Communications		Embedded System Design	Research Methodology and IPR	Digital Signal Processors and Architectures	CMOS Analog Integrated Circuit Design	
			TCP/IP and ATM Networks		Advanced Microcontrollers				

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ELECTRICAL POWER SYSTEMS -07	Power System Analysis	Economic Operation of Power Systems	Elective-I	Elective-I		MC	Elective-II			
			Modern Control Theory	HVDC Transmission					Research Methodology and IPR	
			Smart Grid Technologies	Renewable Energy Systems						Electrical Power Distribution System
										Reactive Power Compensation and Management
							Mathematical Methods for Power Engineering			
							Hybrid Electric Vehicles			
ENVIRONMEN TAL ENGINEERIN G- 11	Environmental Chemistry and Microbiology	Waste Water Engineering	Elective-I	Elective-II	Elective-II	MC				
			Computational and Statistical Methods	Environmental Impact Assessment	Remote Sensing and GIS				Research Methodology and IPR	
			Environmental System Engineering		Water Supply Systems					
			Eco system-based disaster risk reduction							
GEOTECHNIC AL ENGINEERIN G - 12	Advanced Soil Mechanics	Elective-I		Elective-II	Advanced Foundation Engineering	MC		Elective-II		
		Ground Improvement Techniques		Environmental Impact Assessment					Research Methodology and IPR	
		Theoretical Soil Mechanics								Environmental Geotechnology
		Soil - Structure Interaction								Applied Statistics

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<b>MACHINE DESIGN - 15</b>	Advanced Mechanics of Solids	Advanced Mechanics of Machinery		ELECTIVE-I	ELECTIVE-II	MC	ELECTIVE-II	ELECTIVE-I	
				Mechanical Vibrations	Optimization Techniques & Applications Composite Materials	Research Methodology and IPR	Design for Manufacturing & Assembly	Mechanical Behaviour of Materials	
				Fracture Mechanics					
<b>PRODUCTION ENGINEERING -16</b>	Theory of Metal Cutting	ELECTIVE-II	ELECTIVE-I	Theory of Metal Forming	ELECTIVE-I	MC	Elective-II	ELECTIVE-II	
		Automation in Manufacturing	Additive Manufacturing Technologies		Optimization Techniques & Applications	Research Methodology and IPR	Design for Manufacturing & Assembly	Precision Engineering	
			Advanced Manufacturing Processes						
<b>STRUCTURAL ENGINEERING -20</b>			Advanced Structural Analysis	ELECTIVE-II	ELECTIVE-I	MC		Theory of Elasticity	
				Advanced foundation Design of reinforced concrete	Theory of Plates and Shells Theory and Applications of Cement Composites Theory of Structural Stability	Research Methodology and IPR			
									Advanced Reinforced Concrete Design
									Numerical Methods in Structural Engineering

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THERMAL ENGINEERING -21	Advanced Thermodynamics		Advanced Fluid Mechanics	ELECTIVE-II	ELECTIVE-II	MC	Research Methodology and IPR	ELECTIVE-I
				Computational Fluid Dynamics	Turbulence Modelling	Road Safety Engineering		Advanced Fuel Cell Technologies
					Nano Fluids			Fuels &Combustion
TRANSPORTAT ION ENGINEERING - 22	ELECTIVE-I	Urban Policy & Planning	Pavement Material Characterization	ELECTIVE-I	Elective-II	MC	ELECTIVE-I	
	Traffic Engineering			Modeling & Simulation	Advanced Concrete Technology	Research Methodology and IPR	Road Safety Engineering	
					Remote sensing & GIS			
SOFTWARE ENGINEERING - 25	Principles of Software Engineering		Advanced Data Structures	ELECTIVE-I	ELECTIVE-II	MC	ELECTIVE-II	ELECTIVE-I
				Software Development Methodologies	Mobile Application Security	Research Methodology and IPR	Software Metrics	Software Requirements and Estimation
				Object Oriented Analysis & Design			Software Project Management	

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MICROWAVE AND RADAR ENGINEERING. -30		ELECTIVE-II	ELECTIVE-II	ELECTIVE-I	Advanced Digital Signal Processing	MC	Microwave Components and Measurements	ELECTIVE-I
		Detection and Estimation Theory	GPS/GSS EMI/EMC	Radio Navigational Aids <b>Cognitive Radio</b>		Research Methodology and IPR		Satellite Communications
ADVANCED MANUFACTURING SYSTEMS - 33	Theory of Metal Cutting	Automation in Manufacturing	ELECTIVE-I	ELECTIVE-II		MC	ELECTIVE-I	ELECTIVE-II
			Product Data Management	<b>Additive Manufacturing Technologies</b>		Research Methodology and IPR	Design For Manufacturing and Assembly	Precision Engineering
			<b>Advanced Manufacturing Processes</b>				<b>Optimization Techniques &amp; Applications</b>	
CONTROL ENGINEERING -37			Modern Control Theory	ELECTIVE-I	ELECTIVE-II	MC	ELECTIVE-II	Estimation of Signals and Systems.
				Process Modeling and Simulation	Instrumentation and Control	Research Methodology and IPR	Advanced Microprocessors	
				Intelligent Control	DSP Processor Architecture and Applications			
				System Dynamics and Control				
DIGITAL ELECTRONICS AND COMMUNICATION ENGINEERING/ SYSTEMS-38	ELECTIVE-I	Advanced Digital System Design	ELECTIVE-I	ELECTIVE-I	ELECTIVE-II	MC	ELECTIVE-II	<b>Wireless Communications and Networks</b>
	Design of Fault Tolerant Systems		<b>System on Chip Architecture</b>	<b>VLSI Technology and Design</b>	Optical Communications and Networks	Research Methodology and IPR	Coding Theory and Techniques	
					<b>Wireless MIMO Communications</b>			

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INFORMATION TECHNOLOGY - 40	Mathematical Foundations of Computer Science	Advanced Data Structures	ELECTIVE-I	ELECTIVE-I	ELECTIVE-II	MC Research Methodology and IPR		
			Object Oriented Analysis & Design	Cloud Computing	Software Project Management			
			Python Programming		Advanced Data Mining Mobile Application Development			
POWER ELECTRONICS- 43	Machine Modeling and Analysis	Power Electronic Converters	ELECTIVE-I	ELECTIVE-II		MC Research Methodology and IPR	ELECTIVE-II Reactive Power Compensation and Management	
			Modern Control Theory	High Frequency Magnetic Components				
			Power Electronics for Renewable Energy Systems	Hybrid Electric Vehicles Power Semiconductor Devices and Modeling				
			Smart Grid Technologies					
			Dynamics of Electrical Machines					
SYSTEMS AND SIGNAL PROCESSING- 45/93		ELECTIVE-II	ELECTIVE-I	Image and Video Processing	Advanced Digital Signal Processing	MC Research Methodology and IPR	ELECTIVE-II Coding theory and Techniques	
		Biomedical Signal Processing	Transform Techniques					
		Pattern Recognition & Machine Learning	Detection and Estimation Theory Random Processes and Queuing Theory					

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ELECTRICAL POWER ENGINEERING- 49	Power System Analysis	Economic Operation of Power Systems	Elective-I	Elective-I		MC	ELECTIVE-II				
			Modern Control Theory	HVDC Transmission					Research Methodology and IPR	Electrical Power Distribution System	
			Smart Grid Technologies	Renewable Energy Systems							Reactive Power Compensation and Management
											Mathematical Methods for Power Engineering
							Hybrid Electric Vehicles				
DESIGN FOR MANUFACTURI NG-52	ELECTIVE-II	Advanced Computer Aided Design	ELECTIVE-I	ELECTIVE-I	Elective-II	MC	Design for Manufacturing & Assembly				
	Flexible Manufacturing Systems		Advanced Manufacturing Processes	Optimization Techniques & Applications					Quality Engineering in Manufacturing	Research Methodology and IPR	
				MEMS & Micro Systems : Design & Manufacture	Theory of Elasticity & Plasticity						
POWER ELECTRONICS AND ELECTRIC DRIVES-54	Machine Modeling and Analysis	Power Electronic Converters	ELECTIVE-I	ELECTIVE-II		MC	ELECTIVE-II				
			Modern Control Theory	High Frequency Magnetic Components					Research Methodology and IPR	Reactive Power Compensation and Management	
			Power Electronics for Renewable Energy Systems	Hybrid Electric Vehicles							
			Smart Grid Technologies	Power Semiconductor Devices and Modeling							
			Dynamics of Electrical Machines								

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EMBEDDED SYSTEMS-55	ELECTIVE-II	System Design with Embedded Linux	Microcontrollers & Programmable Digital Signal Processors	ELECTIVE-II		MC	ELECTIVE-I	ELECTIVE-I		
	Communications Buses & Interfaces			Advanced Computer Architecture		Research Methodology and IPR			Programming Languages for Embedded Software	AI & Machine Learning
	Parallel Processing								Computer Vision	
VLSI/ VLSI DESIGN/VLSI SYSTEM DESIGN-57	ELECTIVE-I	Digital Design & Verification	Microcontrollers & Programmable Digital Signal Processors	ELECTIVE-I	ELECTIVE-II	MC				
	Communications Buses & Interface			Advanced Computer Architecture	DSP Architecture	Research Methodology and IPR				
	Nanomaterials & Nanotechnology				IOT and its Applications					
COMPUTER SCIENCE AND ENGINEERING - 58	Mathematical Foundations of Computer Science	Advanced Data Structures	Elective-II Network Security	Elective-II	Elective-I	MC	Elective-I			
				Cloud Computing	Mobile Application Development	Research Methodology and IPR			Machine Learning	
				Data Mining					Information Security	
COMMUNICATION SYSTEMS - 61	ELECTIVE-II	ELECTIVE-I	Advanced Data Communications	ELECTIVE-I	ELECTIVE-I	MC	ELECTIVE-II	Wireless Communications and Networks		
	Spread Spectrum Communications	Detection and Estimation Theory		Cognitive Radio	TCP/IP Internetworking	Research Methodology and IPR			4G Technologies	
									Coding Theory and Techniques	

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WEB TECHNOLOGY - 62	Mathematical Foundations of Computer Science	Advanced Data Structures	ELECTIVE-I	ELECTIVE-I	ELECTIVE-II	MC	Research Methodology and IPR	
			Object Oriented Analysis & Design	Cloud Computing	Software Project Management	Research Methodology and IPR		
			Python Programming		Advanced Data Mining Mobile Application Development			
POWER ENGINEERING & ENERGY SYSTEMS 64	Renewable Energy Technologies	Economic Operation of Power Systems	ELECTIVE-I	ELECTIVE-II	ELECTIVE-II	MC	ELECTIVE-II	ELECTIVE-I
			Smart Grid Technologies	Hybrid Electric Vehicles	Electrical Power Distribution System	Research Methodology and IPR	Reactive Power Compensation and Management	Engineering Heat Transfer Thermal Power Plant
			Modern Control Theory		Mathematical Methods for Power Engineering			
WIRELESS AND MOBILE COMMUNICATI ONS-65		ELECTIVE-I	Ad-hoc and Wireless sensor Networks	ELECTIVE-II	ELECTIVE-I	MC	ELECTIVE-II	Wireless Communicatio ns and Networks
		Detection and Estimation Theory		Mobile Computing	TCP/IP Internetworking	Research Methodology and IPR	Coding Theory and Techniques	
		Antenna Theory & Design		Wireless LANs & PANS				

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VLSI AND EMBEDDED SYSTEMS-68	ELECTIVE-II		Microcontrollers & Programmable Digital Signal Processors	Elective-II		MC	ELECTIVE-I	RTL Simulation and Synthesis with PLDs		
	Parallel Processing			Advanced Computer Architecture					Research Methodology and IPR	Programming Languages for Embedded Software
				CAD of Digital Systems						Digital Signal & Image Processing
							Memory Technologies			
ELECTRONICS AND COMMUNICATION ENGINEERING .70	ELECTIVE-I	Advanced Digital System Design	ELECTIVE-I	ELECTIVE-I	ELECTIVE-II	MC	ELECTIVE-II	Wireless Communications and Networks		
	Design of Fault Tolerant Systems		System on Chip Architecture	VLSI Technology and Design	Wireless MIMO Communications				Research Methodology and IPR	Coding Theory and Techniques
					Optical Communications and Networks					
CONTROL SYSTEMS – 75			Modern Control Theory	ELECTIVE-I	ELECTIVE-II	MC	ELECTIVE-II	Estimation of Signals and Systems.		
				Process Modeling and Simulation	Instrumentation and Control				Research Methodology and IPR	Advanced Microprocessors
				Intelligent Control	DSP Processor Architecture and Applications					
				System Dynamics and Control						
EMBEDDED SYSTEMS & VLSI DESIGN-77	ELECTIVE-II		Microcontrollers & Programmable Digital Signal Processors	Elective-II		MC	ELECTIVE-I	RTL Simulation and Synthesis with PLDs		
	Parallel Processing			Advanced Computer Architecture					Research Methodology and IPR	Programming Languages for Embedded Software
				CAD of Digital Systems						Digital Signal & Image Processing
							Memory Technologies			

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COMPUTER NETWORKS AND INFORMATION SECURITY (CNIS) - 78		Advanced Data Structures	ELECTIVE-II	ELECTIVE-I	Distributed Systems	MC		
			Network Security	Information Security		Research Methodology and IPR		
			Advanced Wireless Networks	Network Coding Theory Cryptanalysis				
			Trustworthy Computing					
MECHATRONICS-80	Applied Industrial Pneumatics	Applied Industrial Hydraulics	ELECTIVE-I	ELECTIVE-II		MC		
			Industrial Electrical & Electronics	Control systems		Research Methodology and IPR		
			Artificial Intelligence	Instrumentation & Sensor Technology				
			Programmable Logic Controllers and Applications	Micro-controller & Applications				
INFRASTRUCTURE ENGG-81	ELECTIVE-I	Transportation & Storm water conservation planning	ELECTIVE-II	Topographic analysis & Land Utilization Studies	ELECTIVE-I	MC		
	Water Resources systems planning and management		Geotechniques infrastructure		Project planning and Financial management	Research Methodology and IPR		
			Infrastructure planning for Airports		Planning of Ports and Harbors			
			Building planning and construction					

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COMPUTER NETWORKS-82		Advanced Data Structures	ELECTIVE-II	ELECTIVE-I	Distributed Systems	MC			
			Network Security	Information Security		Research Methodology and IPR			
			Advanced Wireless Networks	Network Coding Theory					
			Trustworthy Computing	Cryptanalysis					
HIGHWAY ENGINEERING - 87	ELECTIVE-I	Highway Policy & Planning	Pavement Material Characterization	ELECTIVE-II	ELECTIVE-II	MC	ELECTIVE-I		
	Traffic Engineering			Pavement Design & Evaluation	Remote Sensing & GIS	Research Methodology and IPR	Road Safety Engineering		
ELECTRONICS AND INSTRUMENTATION ENGINEERING- 88	Transducers and Applications	Signal Conditioning Circuits	ELECTIVE-I		ELECTIVE-I	MC	ELECTIVE-II	ELECTIVE-II	
			Advanced Microcontrollers		Electronic System Design	Research Methodology and IPR	Digital Instrumentation	Advanced Digital Signal Processing	
			Transform Techniques				Neural Networks and Fuzzy Logic		
HEATING VENTILATION & AIR CONDITIONING -91	ELECTIVE-I	ELECTIVE-II	Air Conditioning	ELECTIVE-II	ELECTIVE-I	MC	Refrigeration		
	Advanced Thermodynamics	Advanced Heat Transfer		Conduction and Radiation Heat Transfer	Equipment Design for Thermal Systems	Research Methodology and IPR			
ENGINEERING DESIGN. - 95	Advanced Mechanics of Solids	Advanced Mechanics of Machinery		ELECTIVE-I	ELECTIVE-II	MC	Elective-II	Design for Manufacturing & Assembly	
				Advanced Machine Design	Optimization Techniques & Applications	Research Methodology and IPR			Theory of Elasticity
				Random Vibrations	Mechanical Behaviour of Engineering Materials				

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CONSTRUCTION MANAGEMENT - A1		Quantitative Methods in Construction Management	ELECTIVE-II	ELECTIVE-I	Construction Methods and Equipment	MC  Research Methodology and IPR	ELECTIVE-II	ELECTIVE-I		
			Geotechnics for Infrastructure.	Infrastructure Valuation					Integrated Water Resource Management.	Construction Engineering practices
				Formwork and scaffolding design.					Repair & Rehabilitation of Buildings	
CYBER SECURITY - A3		Advanced Data Structures	ELECTIVE-II	ELECTIVE-I	Distributed Systems	MC  Research Methodology and IPR				
			Network Security	Information Security						
			Advanced Wireless Networks	Network Coding Theory						
			Trustworthy Computing	Cryptanalysis						
VLSI DESIGN- A5	ELECTIVE-I	Digital Design & Verification	Microcontrollers & Programmable Digital Signal Processors	ELECTIVE-I	ELECTIVE-II	MC  Research Methodology and IPR				
	Communications Buses & Interface			Advanced Computer Architecture	DSP Architecture					
	Nanomaterials & Nanotechnology				IOT and its Applications					
					Hardware Software Co-Design					

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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