

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY-HYDERABAD-500085

EXAMINATION BRANCH

M.TECH. I YEAR -I SEMESTER -R19 REGULATION- REGULAR/SUPPLEMENTARY EXAMINATIONS APRIL-2022

T I M E T A B L E

TIME: 09:45 AM TO 12:45PM

Course	04-04-2022 MONDAY	07-04-2022 THURSDAY	09-04-2022 SATURDAY	12-04-2022 TUESDAY	16-04-2022 SATURDAY	19-04-2022 TUESDAY	21-04-2022 THURSDAY	23-04-2022 SATURDAY
CAD/CAM-04		Elective-II	Elective-II	Elective-I	Computer Aided Manufacturing	MC	Elective-II	Advanced CAD
		Automation in Manufacturing	Computer Aided Process Planning	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 ELECTRONIC S -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			

DATE: 17/03/2022

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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	Electrical Power Distribution System	
			Smart Grid Technologies	Renewable Energy Systems			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	Environmental Geotechnology		
		Theoretical Soil Mechanics				Applied Statistics		
		Soil - Structure Interaction						

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INDUSTRIAL ENGINEERING AND MANAGEMENT T - 13	Industrial Engineering Practices	Statistical Quality Control			ELECTIVE-I	MC	ELECTIVE-II	ELECTIVE-I
					Optimization Techniques & Applications	Research Methodology and IPR	Management Information Systems Management Theory and Practices	Materials Management

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MACHINE DESIGN - 15	Advanced Mechanics of Solids	Advanced Mechanics of Machinery		ELECTIVE-I	ELECTIVE-II	MC	ELECTIVE-II	ELECTIVE-I		
				Mechanical Vibrations	Optimization Techniques & Applications	Research Methodology and IPR	Design for Manufacturing & Assembly	Mechanical Behaviour of Materials		
				Fracture Mechanics					Composite Materials	
PRODUCTION ENGINEERING .-16	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							
STRUCTURAL ENGINEERING -20			Advanced Structural Analysis	ELECTIVE-II	ELECTIVE-I	MC		Theory of Elasticity		
				Advanced foundation Design of reinforced concrete	Advanced foundation Design of reinforced concrete	Theory of Plates and Shells			Research Methodology and IPR	
					Advanced Reinforced Concrete Design					Theory and Applications of Cement Composites
										Numerical Methods in Structural Engineering

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THERMAL ENGINEERING -21	Advanced Thermodynamics		Advanced Fluid Mechanics	ELECTIVE-II	ELECTIVE-II	MC		ELECTIVE-I
				Computational Fluid Dynamics	Turbulence Modelling	Research Methodology and IPR		Advanced Fuel Cell Technologies
					Nano Fluids			Fuels &Combustion
Alternate Fuels & Pollution								
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	Airport Engineering			
Software Requirements and Estimation								
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 Project Management
					Object Oriented Analysis & Design		Software Requirements and Estimation	

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

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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				
			Smart Grid Technologies	Power Semiconductor Devices and Modeling				
			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 MANUFACTURING-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						
				Hardware Software Co-Design								
COMPUTER SCIENCE AND ENGINEERING - 58	Mathematical Foundations of Computer Science	Advanced Data Structures	Elective-II	Elective-II	Elective-I	MC	Elective-I					
			Network Security	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	Research Methodology and IPR	4G Technologies
										Internetworking		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			
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
			Modern Control Theory		Mathematical Methods for Power Engineering		Thermal Power Plant	
WIRELESS AND MOBILE COMMUNICATIONS-65		ELECTIVE-I	Ad-hoc and Wireless sensor Networks	ELECTIVE-II	ELECTIVE-I	MC	ELECTIVE-II	Wireless Communications 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			Research Methodology and IPR		Programming Languages for Embedded Software		
				Advanced Computer Architecture		Digital Signal & Image Processing		
				CAD of Digital Systems		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			
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			Research Methodology and IPR		Programming Languages for Embedded Software		
				Advanced Computer Architecture		Digital Signal & Image Processing		
			CAD of Digital Systems				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				
			Trustworthy Computing	Cryptanalysis				
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 Traffic Engineering	Highway Policy & Planning	Pavement Material Characterization	ELECTIVE-II Pavement Design & Evaluation	ELECTIVE-II Remote Sensing & GIS	MC Research Methodology and IPR	ELECTIVE-I Road Safety Engineering	
					Road Engineering		Modeling for highway simulation	
ELECTRONICS AND INSTRUMENTATION ENGINEERING-88	Transducers and Applications	Signal Conditioning Circuits	ELECTIVE-I		ELECTIVE-I	MC Research Methodology and IPR	ELECTIVE-II Digital Instrumentation	ELECTIVE-II Advanced Digital Signal Processing
			Advanced Microcontrollers		Electronic System Design			
			Transform Techniques					
HEATING VENTILATION & AIR CONDITIONING -91	ELECTIVE-I Advanced Thermodynamics	ELECTIVE-II Advanced Heat Transfer	Air Conditioning	ELECTIVE-II Conduction and Radiation Heat Transfer	ELECTIVE-I Equipment Design for Thermal Systems	MC Research Methodology and IPR	Refrigeration	
				Convective Heat and Mass Transfer	Advanced Thermal Storage Technologies			
ENGINEERING DESIGN. - 95	Advanced Mechanics of Solids	Advanced Mechanics of Machinery		ELECTIVE-I	ELECTIVE-II	MC Research Methodology and IPR	Elective-II Design for Manufacturing & Assembly	ELECTIVE-I Theory of Elasticity
				Advanced Machine Design	Optimization Techniques & Applications			
				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	ELECTIVE-II	ELECTIVE-I
			Geotechnics for Infrastructure.	Infrastructure Valuation		Research Methodology and IPR	Integrated Water Resource Management.	Construction Engineering practices
				Formwork and scaffolding design.				
CYBER SECURITY - A3		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				
VLSI DESIGN- A5	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			
					Hardware Software Co-Design			

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ARTIFICIAL INTELLIGENCE-A9	Artificial Intelligence and Intelligent Systems	Elective-I		Statistical Foundations for Artificial Intelligence	Elective-II	MC	Elective-I Machine Learning	Elective-II Computer Vision
		Advanced Data Structures			Cognitive Systems	Research Methodology & IPR		
		Ad-hoc and Sensor Networks			Game Theory and Applications			
DATA SCIENCE-B0	Statistical Foundations for Data Science	Elective-II	Advanced Data Structures using Python	Elective-I	Elective-II	MC		
		Ad-hoc and Sensor Networks		Image and Video Analytics	Social Media Analytics	Research Methodology & IPR		
				Advanced Artificial Intelligence	Visual Analytics			
				Information Security				

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ARTIFICIAL INTELLIGENCE AND DATA SCIENCE-B2	Artificial Intelligence and Intelligent Systems	Elective-I		Statistical Foundations for Data Science	Elective-II	MC	Elective-II Machine Learning	
		Advanced Data Structures using python			Computational neuro science	Research Methodology &IPR		
		Functional programmin g			Game Theory and Applications			
		Cyber security						

DATE: 17/03/2022

Sd/-

CONTROLLER OF EXAMINATIONS

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