

# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY-HYDERABAD-500085

EXAMINATION BRANCH

M.TECH. I YEAR -II SEMESTER -R19 REGULATION SUPPLEMENTARY EXAMINATIONS AUGUST/SEPTEMBER-2023

TIMETABLE

TIME : 10:00 AM TO 01:00 PM

COURSE	24-08-2023 THURSDAY	26-08-2023 SATURDAY	29-08-2023 TUESDAY	31-08-2023 THURSDAY	02-09-2023 SATURDAY	05-09-2023 TUESDAY
CAD/CAM-04	ELECTIVE-III	Core	E-III Intelligent Manufacturing Systems	ELECTIVE-III	Core	ELECTIVE-IV
	Advanced Manufacturing Processes	Advanced Finite Element and Boundary Element Methods		Optimization Techniques and Applications	Manufacturing Systems: Simulation Modelling & Analysis	Advanced Mechatronics Fuzzy Logic and Neural Networks
						MEMS : Design and Manufacturing
COMPUTR SCIENCE- 05/ Computer Science Engineering -58	Core	ELECTIVE-III	ELECTIVE-III	Core		ELECTIVE-IV
	Advanced Computer Architecture	Web and Database Security	Internet of Things	Advanced Algorithms		Big Data Analytics Advanced Computer Networks
			Data Science			Cyber Security
DIGITAL SYSTEM &COMPUTER ELECTRONICS -06	Core	Core	E-III	Elective-IV	Elective-IV	Elective-III
	Advanced Computer Architecture	Design of Fault Tolerant Systems	Embedded Real Time Operating Systems	Low Power VLSI	Ad-hoc and Wireless Sensor Networks	System On Chip Architectures
					Hardware and Software co-design	Embedded Software Engineering
ELECTRICAL POWER SYSTEMS – 07/ ELECTRICAL POWER ENGINEERING-49	Core	Core		ELECTIVE-III	ELECTIVE-III	Elective-IV
	Digital Protection of Power System	Power System Dynamics		Swarm Intelligence Techniques in Power Systems	Restructured Power Systems	AI Techniques in Power Systems
					EHV AC Transmission	Power Apparatus Design
				Industrial Load Modelling and Control		Power System Reliability and Planning Power Quality

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Environmental Engineering-11	Core	Core		Elective-III		Elective-IV
	Air Pollution and Control	Solid and Hazardous waste Management		Water Quality Modeling		Climate Change Modeling
				Environmental Hydrology		Industrial Waste Management
				Environmental Structures		Remediation Technologies
GEOTECHNICAL ENGINEERING-12	Core	Core			Elective-III	Elective-IV
	Soil Dynamics and Machine Foundations	Subsurface Investigations and Instrumentation			Offshore Geotechnical Engineering	Earth Retaining Structures
					Design of substructures	Geotechnics for Infrastructures
					Engineering rock mechanics	
Industrial Engineering and Management-13	Core		Elective-III		Core	Elective-IV
	Supply Chain Management		Total Quality Management		Manufacturing Systems” Modeling and Analysis	Energy Management
			Enterprise Resources Planning			Marketing Management
Machine Design-15	Core	core	Elective –IV	Elective –III	Elective –III	Elective –IV
	Computer Aided Geometric Modelling	Advanced Finite Element and Boundary Element Methods	Industrial Robotics	Advanced Machine Design	Mechanics of Composite Materials	Tribology
			Machine Tool Design		Control Systems	

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Production Engineering -16	Core	Core	Elective-III	Elective -IV	Elective-III	Elective -IV
	Advanced Casting & Welding Technology	Advanced CAD/ CAM	Advanced Tool Design	Material Technology	Manufacturing Systems: Simulation Modelling & Analysis	Vibration Analysis & Condition Monitoring
			Computer Aided Process Planning			Flexible Manufacturing Systems
Structural Engineering -20	Core	Core		Elective -III	Elective -III	Elective -IV
	FEM in Structural Engineering	Structural Dynamics		Advanced Steel Design	Design of Masonry Structures	Soil Structure Interaction.
				Design of High-Rise Buildings		Design of Prestressed concrete Structures
						Structural Optimization
Thermal Engineering-21	Core	Elective -III	Core	Elective -III	Elective -IV	Elective -IV
	Advanced Heat and Mass Transfer	Advanced Finite Element and Boundary Element Methods	Advanced I.C. Engines	Optimization Techniques & Applications	Thermal & Nuclear Power Plants	Energy Conservation & Management
				Numerical Methods for Engineers	Renewable Energy Sources	

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Transportation Engineering -22	Core	Core	Elective –III	Elective –IV	Elective –IV	Elective –IV
	Traffic Analysis	Land Use Transportation Modeling	Environmental Impact assessment	Transportation Systems Management	Highway Infrastructure Design	Rural Roads
			Engineering of Ground			
Highway Project Formulation & Economics						
Software Engineering-25	Core	Core	Elective –IV	Elective –III	Elective –III	Elective –IV
	Machine Learning	Design Patterns	Software Quality Assurance and Testing	Software Testing Methodologies	Mobile Application and API Development	Internet Technologies & Services
			Secure Software Engineering	Object Oriented Software Engineering		
Microwave & Radar engineering -30	Core	(Elective-IV)	Elective –III	Elective –IV	Core	Elective –III
	Advanced Communications and Networks	Remote Sensing	Microwave Solid State Devices	Phased Array Antenna System	Microwave Antenna Design	Smart Antennas
			Optical Communications and Networks	Radar Signal Processing		

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Advanced Manufacturing Systems -33	Core	Elective –III Advanced Tool Design	Elective –IV	Elective –III	Core	Elective –IV
	Computer Aided Manufacturing		Industrial Robotics	Materials Technology	Manufacturing Systems: Simulation Modelling & Analysis	Total Quality Management
				Quality Engineering in Manufacturing		
Control Engineering -37	Core	Core	Elective –III	Elective –IV	Elective –IV	Elective –III
	Optimal Control Theory	Adaptive Control	Non-linear Systems	Advanced Digital Signal Processing	Real Time Systems	Programmable Logic Controllers and Applications
					Robotics and Control	
Digital Electronics and communication systems/engg-38	Core	Elective-IV	Elective-III		Elective-IV	Core
	Advanced Communications and Networks	Pattern Recognition and Machine Learning	Embedded System Design		Ad-hoc and Wireless Sensor Networks	Network Security And Cryptography
			Embedded Networks			
			Embedded Real Time Operating Systems			
			Cognitive Radio			

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Information Technology-40 / Web Technologies -62	Elective-III	Core	Core	Elective-III		Elective-IV
	Machine Learning	Web Technologies	Information Security	Software Testing Methodologies		Big Data Analytics
	Social, Web & Mobile Analytics					Information Retrieval
						Service Oriented Architecture and Microservices
Power Electronics -43	Core	Elective-IV	Core	Elective-III	Elective-III	Elective-IV
	Advanced Power Electronic Converters	Distributed Generation	Electrical Drives	Industrial Load Modelling and Control	SCADA Systems and Applications	Advanced Microcontroller Based Systems
		Integration of Energy Sources			Advanced Digital Signal Processing	
Systems and Signal processing -45/ Systems and Signal processing -93	Elective -IV	Core	Core	Elective -III	Elective -III	Elective -IV
	Wireless Communications and Networks	Digital Signal Processors and Architectures	Adaptive Signal Processing	Radar Signal Processing	Deep Learning	Network Security and Cryptography
				Neural Networks and Fuzzy Systems		
Speech and Audio Signal Processing						

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Design for manufacturing-52	Core	Elective –III	Elective –III	Elective –IV	Core	Elective –IV
	Design of Hydraulic & Pneumatic Systems	Product Data Management	Advanced Tool Design	Materials Technology	Manufacturing Systems: Simulation Modelling & Analysis	Vibration Analysis & Condition Monitoring
			Precision Engineering			Fuzzy Logic and Neural Networks
Power Electronics and Electric Drives -54	Core	Elective-IV	Core	Elective-III	Elective-III	Elective-IV
	Advanced Power Electronic Converters	Distributed Generation	Electrical Drives	Industrial Load Modelling and Control	SCADA Systems and Applications	Advanced Microcontroller Based Systems
		Integration of Energy Sources		Advanced Digital Signal Processing	PWM Converters and Applications	
Power Quality						
Embedded Systems - 55	Elective –IV	Elective –III	Core	Core	Elective –III	Elective –IV
	Hardware and Software Co-Design	VLSI Signal Processing	RTL Simulation and Synthesis with PLDs	Advanced Digital Signal Processing	SOC Architecture	Network Security and Cryptography
		IOT & Applications				Physical Design Automation
VLSI system Design/VLSI Design -57/ VLSI DESIGN- A5	Core	Elective –III	Core	Elective –III	Elective –IV	Elective –III
	Low Power VLSI Design	VLSI Signal Processing	Analog and Digital CMOS VLSI Design	SOC Design	Design For Testability	Physical Design and Automation
					Device Modeling	
RF IC Architecture						

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Communication Systems -61	Core	Elective-IV	Elective-III	Elective-IV	Elective-III	Core		
	Advanced Communications and Networks	Remote Sensing Pattern Recognition and Machine Learning	Wireless MIMO Communications Optical Communications and Networks	High Performance Networks	Ad-hoc and Wireless Sensor Networks	Network Security and Cryptography		
power engineering & energy systems 64	Core		Elective-III	Elective-III	Core	Elective-IV		
	Digital Protection of Power System		Restructured Power Systems	Swarm Intelligence Techniques in Power Systems		Energy Efficiency in Thermal Systems	AI Techniques in Power Systems	
			Nuclear Power Plants	Industrial Load Modelling and Control			Optimization of Energy Systems	Wind Energy Conversion Systems
							Power System Reliability and Planning	

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Wireless and Mobile Communication -65	Core	Core	Elective –III	Elective –IV	Elective –IV	Elective –III
	Advanced Communications and Networks	Wireless Sensor Networks	Wireless MIMO communications	Advanced Digital Signal Processing	Cognitive Radio 4G Technologies	Network Security and Cryptography
			Digital Image & Video Processing			
VLSI and Embedded Systems -68	Elective –III	Core	Core	Elective –III	Elective –IV	Elective –IV
	Low Power VLSI Design	System Design with Embedded Linux	Analog and Digital CMOS VLSI Design	Advanced Digital Signal Processing	Communications Buses & Interfaces	Physical Design Automation
				SOC Design		Network Security & Cryptography
Electronics and Communication Engineering-70	Core	Elective-IV	Elective –III	Core	Elective-IV	
	Advanced Communications and Networks	Pattern Recognition and Machine Learning	Embedded System Design	Advanced Digital Signal Processing	Ad-hoc and Wireless Sensor Networks	
			Embedded Networks		Cognitive Radio	
			Embedded Real Time Operating Systems			

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Control Systems - 75	Core	Core	Elective –III	Elective –IV	Elective –IV	Elective –III
	Optimal Control Theory	Adaptive Control	Non-linear Systems	Advanced Digital Signal Processing	Real Time Systems	Programmable Logic Controllers and Applications
					Robotics and Control	
Embedded Systems & VLSI Design-77	Elective –III	Core	Core	Elective –III	Elective –IV	Elective –IV
	Low Power VLSI Design	System Design with Embedded Linux	Analog and Digital CMOS VLSI Design	Advanced Digital Signal Processing	Communications Buses & Interfaces	Physical Design Automation
				SOC Design		Network Security & Cryptography
Computer Networks and Information Security -78/  Computer Networks -82/  CYBER SECURITY - A3		Core	Elective –III	Core	Digital Image Processing	Elective –IV
		Web & Database Security	Internet of Things	Advanced Algorithms	Blockchain Technology	Biometrics
			Intrusion Detection & Prevention Systems			
			Cloud Security			

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Mechatronics -80	Core	Elective –III	Core	Elective –IV	Elective –III	Elective –III
	Advanced CNC Technologies	Additive Manufacturing Technologies	Industrial Robotics	Design for Manufacture & Assembly	Manufacturing Systems: Simulation Modelling & Analysis	Fuzzy Logic & Neural Networks
				Automation in Manufacturing		
MEMS						
Infrastructure Engg-81	Core		Core	Elective –IV	(Elective –IV)	Elective –III
	Construction Management and Special equipment		Planning of Water supply and sewerage disposal systems	Advanced Reinforced concrete design	Renewable Energy sources	Advanced Concrete Technology
				Retaining structures		Construction Techniques
					Urban/Regional Transportation Analysis and Planning Methods	

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Highway Engineering - 87	Core	Core	Elective –III	Elective –IV	Elective –IV	Elective –III
	Traffic Analysis	Land use & Transport Modeling with Geo meter sensitivity	Environmental Impact Assessment (Ground water and Air in reference to roads)	Transportation Systems Management	Highway Infrastructure Design	Rural Roads
			Project Formulation & Economics	Road safety and Supporting infrastructure Evaluation		
Electronics and Instrumentation -88	Elective –IV	Elective –IV	Core	Elective –III	Core	Elective –III
	Industrial Automation	EMI/EMC	Process Instrumentation & Control	Image and Video Processing	Virtual Instrumentation	Data Acquisition & PC based Instrument
		Quality & Reliability of Electronic System		Analytical Instrumentation		

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Engineering Design -95	Core	Core	Elective –III	Elective –III		Elective –IV
	Computer Aided Geometric Modelling	Advanced Finite Element and Boundary Element Methods	Industrial Robotics	Fuzzy logic & Neural Networks		Design and Analysis of Experiments
			Vibration Analysis of Mechanical Systems			Tribology
						Experimental Stress Analysis
Construction Management -A1	Core	Core		Elective –III		Elective –IV
	Management of quality and safety in construction	Construction and Contract Management		Construction Economics and Finance		Under Water Construction
				Waste Management System		Advanced concrete Technology
				Building services.		Civil Engineering Materials and Recent Advances

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ARTIFICIAL INTELLIGENCE- A9	Core		Elective –III	Core	Elective –III	Elective –IV
	Speech Information Processing		Internet of Things	Deep Learning	Big Data Analytics	Reinforcement Learning
					Functional Programming	Machine Translation
					Cyber Security	
DATA SCIENCE-B0		Elective –III	Elective –III	Core	Core	Elective –IV
		Web and Database Security	Internet of Things	Deep Learning	Big Data Analytics	Predictive Analytics
			Advanced Algorithms			Stochastic Models
					Cyber Security	
Artificial Intelligence and Data Science-B2	core		Elective-III	Core	Elective-III	Elective-IV
	Data Analytics		Internet of Things	Deep Learning	Social Media Analytics	Reinforcement Learning
					Visual Analytics	Machine Translation
					Image and video Analytics	

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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.