

# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY-HYDERABAD-500085

EXAMINATION BRANCH

M.TECH. I YEAR -II SEMESTER -R19 REGULATION REGULAR/SUPPLEMENTARY EXAMINATIONS OCTOBER-2021

T I M E T A B L E

TIME : 09:45 AM TO 12:45 PM

COURSE	18-10-2021 Monday	21-10-2021 Thursday	23-10-2021 Saturday	26-10-2021 Tuesday	28-10-2021 Thursday	30-10-2021 Saturday	02-11-2021 Tuesday	05-11-2021 Friday
CAD/CAM-04	(ELECTIVE-III)	Core		(ELECTIVE-III)	Core	(ELECTIVE-IV)	(ELECTIVE-IV)	(ELECTIVE-III)
	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 Energy From Waste	Intelligent Manufacturing Systems
COMPUTR SCIENCE-05	Core	(ELECTIVE-III)	(ELECTIVE-III)			(ELECTIVE-IV)	(ELECTIVE-IV)	Core
	Advanced Computer Architecture	Web and Database Security	Internet of Things Data Science			Big Data Analytics Advanced Computer Networks	Cyber Security	Advanced Algorithms
DIGITAL SYSTEM & COMPUTER ELECTRONICS - 06	Core	Core		(Elective-IV)	(Elective-IV)		(Elective-III)	
	Advanced Computer Architecture	Design of Fault Tolerant Systems		Low Power VLSI	Ad-hoc and Wireless Sensor Networks Hardware and Software co-design		System On Chip Architectures Embedded Software Engineering Embedded Real Time Operating Systems	
ELECTRICAL POWER SYSTEMS – 07	Core		(ELECTIVE-III)	(ELECTIVE-III)	Core	(Elective-IV)	(Elective-IV)	
	Digital Protection of Power System		Restructured Power Systems	Swarm Intelligence Techniques in Power Systems	Power System Dynamics	AI Techniques in Power Systems Power Quality	Power Apparatus Design Power System Reliability and Planning	
			EHV AC Transmission	Industrial Load Modelling and Control				

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Environmental Engineering-11	Core Air Pollution and Control		Core	Elective-III		Elective-IV	Elective-IV	
			Solid and Hazardous waste Management	Water Quality Modeling		Climate Change Modeling	Remediation Technologies	
				Environmental Hydrology		Industrial Waste Management		
				Environmental Structures				
GEOTECHNICAL ENGINEERING-12	Soil Dynamics and Machine Foundations		Subsurface Investigations and Instrumentation		Elective-III	Earth Retaining Structures		
					Offshore Geotechnical Engineering	Geotechnics for Infrastructures		
					Design of substructures	Physical and Constitutive Modeling on Geomechanics		
					Engineering rock mechanics			
Machine Design-15		core	(Elective –IV)	(Elective –III)	Core	(Elective –IV)	(Elective –III)	
		Advanced Finite Element and Boundary Element Methods	Industrial Robotics	Advanced Machine Design	Computer Aided Geometric Modelling	Tribology	Mechanics of Composite Materials	
			Machine Tool Design				Control Systems	

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Production Engineering -16	Core	Core	Elective-III	(Elective -IV)	Core	(Elective -IV)		Elective-III
	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	FEM in Structural Engineering		Structural Dynamics	(Elective -III)	(Elective -III)	(Elective -IV)		
				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		Elective -III	Elective -IV	Elective -IV		Core
	Advanced Heat and Mass Transfer	Advanced Finite Element and Boundary Element Methods		Optimization Techniques & Applications	Thermal & Nuclear Power Plants	Energy Conservation & Management		Advanced I.C. Engines
				Numerical Methods for Engineers	Renewable Energy Sources			

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Transportation Engineering -22	Core	Core		(Elective –IV)	(Elective –IV)	Elective –IV	Elective –III	Elective –III
	Traffic Analysis	Land Use Transportation Modeling		Transportation Systems Management	Highway Infrastructure Design	Rural Roads	Environmental Impact assessment	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)		(Elective –III)	(Elective –III)	Core
	Advanced Communications and Networks	Remote Sensing	Microwave Solid State Devices	Phased Array Antenna System		Smart Antennas	Optical Communications and Networks	Microwave Antenna Design
				Radar Signal Processing				

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

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Information Technology-40	(Elective-III)	Core	Core	(Elective-III)		(Elective-IV)	Elective-IV)	
	Machine Learning	Web Technologies	Information Security	Software Testing Methodologies		Big Data Analytics	Service Oriented Architecture and Microservices	
	Social, Web & Mobile Analytics					Information Retrieval		
Power Electronics - 43	Core		Core	(Elective-III)	(Elective-III)	(Elective-IV)	(Elective-IV)	
	Advanced Power Electronic Converters		Electrical Drives	Industrial Load Modelling and Control	SCADA Systems and Applications	Advanced Microcontroller Based Systems	Distributed Generation	Integration of Energy Sources
					PWM Converters and Applications			
			Advanced Digital Signal Processing					
Systems and Signal processing -45		Core	Core	(Elective -III)	(Elective -III)	(Elective -IV)		(Elective -IV)
		Digital Signal Processors and Architectures	Adaptive Signal Processing	Radar Signal Processing	Deep Learning	Network Security and Cryptography		Wireless Communications and Networks
			Neural Networks and Fuzzy Systems					Speech and Audio Signal Processing
ELECTRICAL POWER ENGINEERING- 49	Core Digital Protection of Power System		(ELECTIVE-III) Restructured Power Systems	(ELECTIVE-III) Swarm Intelligence Techniques in Power Systems	Core Power System Dynamics	(Elective-IV) AI Techniques in Power Systems	(Elective-IV) Power Apparatus Design	
			EHV AC Transmission	Industrial Load Modelling and Control		Power Quality	Power System Reliability and Planning	

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Design for manufacturing-52	Core	(Elective –III)	(Elective –III)	(Elective –IV)	Core	(Elective –IV)		(Elective –III)
	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		Core	(Elective-III)	(Elective-III)	(Elective-IV)	(Elective-IV)	
	Advanced Power Electronic Converters		Electrical Drives	Industrial Load Modelling and Control	SCADA Systems and Applications	Advanced Microcontroller Based Systems	Distributed Generation	
				Advanced Digital Signal Processing	PWM Converters and Applications		Power Quality	

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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	Core	(Elective –III)	(Elective –IV)	(Elective –III)	Core	(Elective –III)	(Elective –IV)	
	Low Power VLSI Design	VLSI Signal Processing	Design For Testability	SOC Design	Analog and Digital CMOS VLSI Design	Physical Design and Automation	RF IC Architecture	
		Device Modeling						

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Computer Science Engineering -58	Core	(ELECTIVE-III)	(ELECTIVE-III)			(ELECTIVE-IV)	(ELECTIVE-IV)	Core
	Advanced Computer Architecture	Web and Database Security	Internet of Things			Big Data Analytics	Cyber Security	Advanced Algorithms
			Data Science					
Communication Systems -61	Core	(Elective-IV)	(Elective-III)	(Elective-IV)	(Elective-III)	Core	(Elective-III)	
	Advanced Communications and Networks	Remote Sensing Pattern Recognition and Machine Learning	Wireless MIMO Communications	High Performance Networks	Ad-hoc and Wireless Sensor Networks	Network Security and Cryptography	Optical Communications and Networks	
Web Technologies -62	(Elective-III)	Core	Core	(Elective-III)		(Elective-IV)	Elective-IV Service Oriented Architecture and Microservices	
	Machine Learning Social, Web & Mobile Analytics	Web Technologies	Information Security	Software Testing Methodologies		Big Data Analytics Information Retrieval		
power engineering & energy systems 64	Core		(Elective-III)	(Elective-III)	Core	(Elective-IV)	(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	Wind Energy Conversion Systems	
			Nuclear Power Plants	Industrial Load Modelling and Control		Optimization of Energy Systems	Power System Reliability and Planning	

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

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Control Systems -75	Core	Core		(Elective –IV)		(Elective –III)	(Elective –IV)	(Elective –III) Non-linear Systems
	Optimal Control Theory	Adaptive Control		Advanced Digital Signal Processing		Programmable Logic Controllers and Applications	Real Time Systems Robotics and Control	
						Robust Control		
Embedded Systems & VLSI Design-77	(Elective –III)	Core		(Elective –III)	Core	(Elective –IV)	(Elective –IV)	
	Low Power VLSI Design	System Design with Embedded Linux		Advanced Digital Signal Processing	Analog and Digital CMOS VLSI Design	Physical Design Automation	Communications Buses & Interfaces	
				SOC Design		Network Security & Cryptography		

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Computer Networks and Information Security -78		Core	(Elective –III)		(Elective –IV)	(Elective –IV)		Core Advanced Algorithms
		Web & Database Security	Internet of Things		Digital Image Processing	Biometrics		
			Intrusion Detection & Prevention Systems		Blockchain Technology			
			Cloud Security					
Mechatronics -80	Core	(Elective –III)	Core	(Elective –IV)	(Elective –III)	(Elective –III)	(Elective –IV)	
	Advanced CNC Technologies	Additive Manufacturing Technologies	Industrial Robotics	Design for Manufacture & Assembly Automation in Manufacturing	Manufacturing Systems: Simulation Modelling & Analysis	Fuzzy Logic & Neural Networks	MEMS	
Infrastructure Engg-81	Core		Core	(Elective –IV)	(Elective –IV)		(Elective –III)	(Elective –III)
	Construction Management and Special equipment		Planning of Water supply and sewerage disposal systems	Advanced Reinforced concrete design Retaining structures	Renewable Energy sources		Advanced Concrete Technology Construction Techniques	Urban/Regional Transportation Analysis and Planning Methods

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Computer Networks -82		Core	(Elective –III)		(Elective –IV)	(Elective –IV)		Core
		Web & Database Security	Internet of Things		Digital Image Processing	Biometrics		Advanced Algorithms
			Intrusion Detection & Prevention Systems		Blockchain Technology			
			Cloud Security					
Highway Engineering -87	Core	Core		(Elective –IV)	(Elective –IV)	(Elective –III)	(Elective –III)	
	Traffic Analysis	Land use & Transport Modeling with Geo meter sensitivity		Transportation Systems Management	Highway Infrastructure Design	Rural Roads	Environmental Impact Assessment (Ground water and Air in reference to roads)	
				Road safety and Supporting infrastructure Evaluation				

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Electronics and Instrumentation -88	(Elective –IV)	(Elective –IV)	Core	(Elective –III)	Core	(Elective –III)		(Elective –IV)
	Industrial Automation	EMI/EMC	Process Instrumentation & Control	Image and Video Processing Analytical Instrumentation	Virtual Instrumentation	Data Acquisition & PC based Instrument		Quality & Reliability of Electronic System
Systems and Signal processing -93		Core	Core	(Elective -III)	(Elective -III)	(Elective -IV)		(Elective -IV)
		Digital Signal Processors and Architectures	Adaptive Signal Processing	Radar Signal Processing Neural Networks and Fuzzy Systems	Deep Learning	Network Security and Cryptography		Wireless Communications and Networks Speech and Audio Signal Processing

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Engineering Design -95	(Elective –IV)	Core	(Elective –III)	(Elective –III)	Core	(Elective –IV)		
	Experimental Stress Analysis	Advanced Finite Element and Boundary Element Methods	Industrial Robotics Vibration Analysis of Mechanical Systems	Fuzzy logic & Neural Networks	Computer Aided Geometric Modelling	Design and Analysis of Experiments Tribology		
Construction Management -A1	Core	Core		(Elective –III) Construction Economics and Finance		(Elective –IV)	(Elective –IV)	(Elective –IV)
	Management of quality and safety in construction	Construction and Contract Management		Waste Management System		Under Water Construction	Advanced concrete Technology.	Civil Engineering Materials and Recent Advances
				Building services.				
CYBER SECURITY - A3		Core	(Elective –III)		(Elective –IV)	(Elective –IV)		Core Advanced Algorithms
		Web & Database Security	Internet of Things		Digital Image Processing	Biometrics		
			Intrusion Detection & Prevention Systems		Blockchain Technology			
			Cloud Security					
VLSI DESIGN- A5	Core	(Elective –III)	(Elective –IV)	(Elective –III)	Core	(Elective –III)	(Elective –IV)	
	Low Power VLSI Design	VLSI Signal Processing	Design For Testability	SOC Design	Analog and Digital CMOS VLSI Design	Physical Design and Automation	RF IC Architecture	
			Device Modeling					

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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)	(Elective –III)
		Web and Database Security	Internet of Things	Deep Learning	Big Data Analytics		Predictive Analytics	Advanced Algorithms
							Stochastic Models	
							Cyber Security	

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NOTE:

- (I). ANY OMISSIONS OR CLASHES IN THIS TIME TABLE JULY 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