JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY-HYDERABAD-500085

E X A M I N A T I O N B R A N C H

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

T I M E T A B L E

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

DATE: 07-08-2023

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

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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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EXAMINATIONBRANCH

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

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

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

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

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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 Proceesing	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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Communicatin 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 Digital Protection of Power System		Elective-III Restructured Power Systems Nuclear Power Plants	Elective-III Swarm Intelligence Techniques in Power Systems Industrial Load Modelling and Control	Core Energy Efficiency in Thermal Systems	Elective-IV AI Techniques in Power Systems 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 Digital Image & Video Processing	Advanced Digital Signal Processing	Cognitive Radio 4G Technologies	Network Security and Cryptography
VLSI and Embedded Systems -68	Elective –III Low Power VLSI Design	Core System Design with Embedded Linux	Core Analog and Digital CMOS VLSI Design	Elective –III Advanced Digital Signal Processing SOC Design	Elective –IV Communications Buses & Interfaces	Elective –IV Physical Design Automation Network Security & Cryptography
Electronics and Communication Engineering-70	Core Advanced Communications and Networks	Elective-IV Pattern Recognition and Machine Learning	Elective –III Embedded System Design Embedded Networks Embedded Real Time Operating Systems	Core Advanced Digital Signal Processing	Elective-IV Ad-hoc and Wireless Sensor Networks Cognitive Radio	

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

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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 Management of quality and safety in construction	Core Construction and Contract Management		Elective –III Construction Economics and Finance Waste Management System Building services.		Elective –IV Under Water Construction Advanced concrete Technology Civil Engineering Materials and Recent Advances

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