

# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY-HYDERABAD-500085

EXAMINATION BRANCH

**M.TECH . I YEAR II SEMESTER -R15 REGULATION SUPPLEMENTARY EXAMINATIONS APRIL-2022**

**T I M E T A B L E**

**TIME : 09:45 AM TO 12:45 PM**

COURSE	06-04-2022 WEDNESDAY	08-04-2022 FRIDAY	11-04-2022 MONDAY	13-04-2022 WEDNESDAY	18-04-2022 MONDAY	20-04-2022 WEDNESDAY	22-04-2022 FRIDAY	25-04-2022 MONDAY
CAD/CAM-04	ELECTIVE-III Special Manufacturing Process	Flexible Manufacturing Systems	Industrial Robotics	Design for Manufacturing And Assembly	(OE2) Engineering Research and Methodology	(ELECTIVE-IV) Advanced Mechatronics	(OE2) Quality Engineering in Manufacturing	(ELECTIVE-III) Intelligent Manufacturing Systems
	Design Optimization					Design and Manufacturing of MEMS and Micro Systems		
COMPUTR SCIENCE-05	Network Programming	Elective-IV Software Process and Project Management	Internet Technologies and Services	(ELECTIVE-III)	(OE2) 1R-Programming 2 Android Application Development 3 Algorithmics 4 Big Data Analytics 5 Bioinformatics 6 Biometrics. 7 Computer Forensics 8 E – Commerce 9 Information Security And Audit 10 Intellectual Property Rights 11 Java Programming 12 Linux Programming 13 Mobile Computing 14 Mobile Application Security 15 Open Stack Cloud Computing 16 Operations Research 17 Principles Of Information Security 18 Scripting Languages 19 Social Media Intelligence 20 Software Engineering 21 Storage Area Networks 22 Web Usability	(ELECTIVE-IV) Big Data Analytics	(ELECTIVE-III) Cyber Security	Information Retrieval Systems
				Storage Area Networks		Soft Computing	Data Mining	
				Semantic Web and Social Networks		Distributed Computing		

DATE: 17/03/2022

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DIGITAL SYSTEM & COMPUTER ELECTRONICS -06	Advanced Computer Architecture	Digital Signal Processors and Architectures	(Elective-IV) Design for Testability	Elective -IV)	(OE2)	(Elective-III) Network Security and Cryptography	(Elective-III) System on Chip Architecture	Real Time Operating Systems
				Low Power VLSI Design	Software Defined Radio			
				Device Modeling	Adhoc Wireless Networks			
					Scripting Languages		CPLD and FPGA Architectures and Applications	
ELECTRICAL POWER SYSTEMS – 07	Power System Dynamics		Power System Operation and Deregulation	(Elective -III) Gas Insulated Systems(GIS)	(OE2) Instrumentation & Control	Elective -IV) Reactive Power Compensation and Management		Flexible AC Transmission Systems (FACTS)
				Programmable Logic Controllers and their applications	Intelligent Control			
				High frequency magnetic components	Smart grid technologies	Power System Reliability		
					AI Techniques in Electrical Engineering			
	Reliability Engineering	Voltage Stability						
	Energy Auditing, Conservation & Management							
Environmental Engineering-11	Air Pollution and Control	Industrial Waste Water Treatment	Environmental Impact Assessment	(Elective -III) Ground Water Contamination and Remediation	(OE2) Agricultural Pollution and Control	Elective -IV) Environmental Geo-technology		
					Environmental Health and Safety			
				Disaster Management	Remote Sensing and GIS	Environmental Biotechnology		
				Water Quality Modeling				

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Machine Design-15	Experimental Stress Analysis	OE2 Advance Optimization Techniques & Applications	(E3) Industrial Robotics	(Elective –III)	Mechanical Behavior of Engineering Materials	(Elective –IV) Vehicle Dynamics	Advanced Finite Element Analysis	(Elective –III) Advanced Engineering Design		
		Computational Fluid Dynamics		Fuzzy logic & Neural Networks		Design and Analysis of Experiments				
						Structural Health Monitoring				
Production Engineering -16	Advanced Manufacturing Processes	(Elective –IV) Performance Modeling & Analysis Of Manufacturing System	Advanced Tool Design	(Elective –III) Optimization Techniques & Applications	(OE2) Advanced Mechatronics	(Elective –III) Vibration Analysis & Condition Monitoring	(Elective –IV) Experimental Techniques & Data Analysis	(Core) Computer Aided Process Planning		
					Rapid Prototyping Technology				Advanced Finite Element Analysis	
				Material Technology						
Structural Engineering -20	Pre-stressed Concrete	Structural Dynamics	(OE2) Repair & Rehabilitation of Buildings	(Elective –III) Advanced Steel Design	(OE2) Composite Materials	(Elective –IV) Design of shells & folded plates	Elective-III Stability of Structures	Finite Element Method		
					Optimization Techniques				Earthquake Resistant Design of Buildings	Soil Dynamic & Foundation Engineering
					Energy From Waste (Substitute Given from R17)				Fracture Mechanics	

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Thermal Engineering- 21	Combustion & Environment	Computational Fluid Dynamics	(OE2) Energy Management	(Elective –III) Alternate Fuels		(Elective –IV) Convective Heat Transfer	(OE2) Advanced Finite Element Analysis	Advanced Heat and Mass Transfer
				Cryogenic Engineering (pre req : R&AC)		Equipment Design For Thermal Systems		
				Jet Propulsion & Rocket Engineering (pre req: Turbo Machines)		Computer Simulation of SI & CI Engine		
Transportation Engineering -22	Traffic Analysis	Land Use Transportation Modeling	(Elective –III) Highway Project Formulation & Economics	Pavement Analysis and Design	(OE2)	(Elective –IV) Pavement Construction Maintenance and Management	(Elective –III) Environmental Impact assessment for Transportation Projects	Finite Element Method
					Optimization Techniques			
			Airport Engineering		Disaster Management	Rural Roads		

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Software Engineering-25	Software Architecture and Design Patterns	Software Process and Project Management	Software Quality Assurance and Testing	(Elective –III)  Semantic Web and Social Networks	(OE2) 1R-Programming 2 Android Application Development 3 Algorithmics 4 Big Data Analytics 5 Bioinformatics 6 Biometrics. 7 Computer Forensics 8 E – Commerce 9 Information Security And Audit 10 Intellectual Property Rights 11 Java Programming 12 Linux Programming 13 Mobile Computing 14 Mobile Application Security 15 Open Stack Cloud Computing 16 Operations Research 17 Principles Of Information Security 18 Scripting Languages 19 Social Media Intelligence 20 Software Engineering 21 Storage Area Networks 22 Web Usability 23 Database Internals	(Elective –IV) Software Security Engineering  Information Security And Audit  Business Process Management	(Elective –IV)  Cyber Security	(Elective –III) Scripting Languages  Information Retrieval Systems  E - Commerce

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Microwave & Radar engineering -30	Microwave Networks	Radar Signal Processing	Microwave Solid State Devices	(Elective –III) RF Circuit Design	(OE2) Bio Medical Signal Processing	(Elective –IV) Smart Antennas Detection and Estimation Theory Wireless Communication and Networks		
				Phased Array Systems				
				Optical Communication Technology	Software Defined Radio Adhoc Wireless Networks			
Advanced Manufacturing Systems -33	Production & Operations Management	Performance Modeling & Analysis of Manufacturing Systems	(Elective –III) Industrial Robotics	Materials Technology	(OE2) Design and Manufacturing of MEMS & Micro Systems	(Elective –IV) Total Quality Management Vibrational Analysis & Conditioning Monitoring Concurrent Engineering & Product life cycle Management	(Elective –III) Quality Engineering in Manufacturing	
			Advanced Tool Design					
Digital Electronics and communication systems/engg-38		Digital Signal Processors and Architectures	(Elective –IV) Wireless MIMO Communications	(Elective –III) Speech Signal Processing	(OE2) Image and Video Processing	Wireless Communications and Networks	(Elective –IV) Network Security And Cryptography	Coding Theory and Techniques
			Optical Communications Technology	Biomedical Signal Processing				
				Radar Signal processing	Software Defined Radio Adhoc Wireless Networks			

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Information Technology-40	Machine Learning	Android Application Development	(Elective –IV) Software Quality Assurance and Testing	(Elective –III) Information Security And Audit Internet Technologies and Services Semantic Web and Social Networks Embedded Systems	(OE2) 1 R-Programming 2 Android Application Development 3 Algorithmics 4 Big Data Analytics 5 Bioinformatics 6 Biometrics. 7 Computer Forensics 8 E – Commerce 9 Information Security And Audit 10 Intellectual Property Rights 11 Java Programming 12 Linux Programming 13 Mobile Computing 14 Mobile Application Security 15 Open Stack Cloud Computing 16 Operations Research 17 Principles Of Information Security 18 Scripting Languages 19 Social Media Intelligence 20 Software Engineering 21 Storage Area Networks 22 Web Usability	(Elective –IV) Computer Forensics Cyber Security	Cloud Computing	(Elective –IV) E-Commerce

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Power and Industrial Drives -42	Power Electronic Converters	Power Electronic Control of DC Drives	Power Electronic Control of AC Drives		(OE2)	(Elective –IV) High-Frequency Magnetic Components	(Elective –III) Power Quality	(Elective –IV) Flexible AC Transmission Systems
					Instrumentation & Control			
					Intelligent Control			
					Smart grid technologies			
					AI Techniques in Electrical Engineering			
					Reliability Engineering			
Energy Auditing, Conservation & Management								
Power Electronics -43	Power Electronic Converters	Power Electronic Control of DC Drives	Power Electronic Control of AC Drives		(OE2)	(Elective –IV) High-Frequency Magnetic Components	(Elective –III) Power Quality	(Elective –IV) Flexible AC Transmission Systems
					Instrumentation & Control			
					Intelligent Control			
					Smart grid technologies			
					AI Techniques in Electrical Engineering			
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Systems and Signal processing -45/93	Adaptive Signal Processing	Digital Signal Processors and Architectures	(Elective –III) Real-time Operating Systems	(Elective –III) Ad-hoc Wireless Networks	(Elective –IV) Image and Video Processing Spread Spectrum Communication	Speech Signal Processing	(OE2) Advanced Communications & Networks  Digital Control Systems  System on Chip Architecture	(Elective –IV) Coding Theory and Techniques
				CPLD and FPGA Architectures and Applications				
Electrical Power Engineering -49	Power System Dynamics		Power System Operation and Deregulation	(Elective –III) Gas Insulated Systems(GIS)	(OE2) Instrumentation & Control	(Elective –IV) Reactive Power Compensation and Management  Power System Reliability  Voltage Stability		Flexible AC Transmission Systems (FACTS)
				Programmable Logic Controllers and their applications	Intelligent Control			
				High frequency magnetic components	Smart grid technologies			
					AI Techniques in Electrical Engineering			
					Reliability Engineering Energy Auditing, Conservation & Management			
Design for manufacturing- 52	Design of Hydraulic & Pneumatic Systems	(Elective –IV) Advanced Optimization Techniques & Applications	Advanced Tool Design	(Elective –III) Intelligent Manufacturing Systems	(OE2) Concurrent Engineering & Product Life Cycle Management	(Elective –IV) Smart Materials & Structures	(OE2) Experimental Techniques & Data Analysis	Precision Engineering
				Product Data Management		Vibration Analysis & Condition Monitoring		
				Neural Network & Fuzzy Logic				

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Power Electronics and Electric Drives - 54	Power Electronic Converters	Power Electronic Control of DC Drives	Power Electronic Control of AC Drives		(OE2) Instrumentation & Control	(Elective –IV) High Frequency Magnetic Components	(Elective –III) Power Quality	(Elective –IV) Flexible AC Transmission Systems	
					Intelligent Control	Dynamics of Electrical Machines	Advanced Digital Signal Processing		
					Smart grid technologies		Switched Mode Power Supplies (SMPS)		
					AI Techniques in Electrical Engineering				
					Reliability Engineering				
					Energy Auditing, Conservation & Management				
Embedded Systems -55	(Elective –IV) Multimedia and Signal Coding	Digital Signal Processors and Architectures	Sensors and Actuators	(Core) Embedded Networking	(OE2) Scripting languages	(Elective –III) Wireless Communication and Networks	(Elective –III) System On Chip Architecture	(OE2) Adhoc Wireless and Sensor Networks	
	Hardware Software Co-Design				Device Modeling				CPLD and FPGA Architectures and Applications
	Network Security and Cryptography								
VLSI system Design/VLSI Design -57	Low Power VLSI Design	CMOS Mixed Signal Circuit Design	Design For Testability	(Elective –IV) Optimization Techniques in VLSI Design	(OE2) Adhoc Wireless Networks	(Elective –III) VLSI and DSP Architectures	(Elective –IV) System On Chip Architecture	(OE2) Coding Theory and Techniques	
				Semiconductor Memory Design and Testing	Scripting Languages				Full custom Design
					Engineering Research Methodology (Substitute Given from R17)				Hardware Description Language

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Computer Science Engineering - 58	Network Programming	Elective-IV Software Process and Project Management	Internet Technologies and Services	(Elective –III)	(OE2) 1 R-Programming 2 Android Application Development 3 Algorithmics 4 Big Data Analytics 5 Bioinformatics 6 Biometrics. 7 Computer Forensics 8 E – Commerce 9 Information Security And Audit 10 Intellectual Property Rights 11 Java Programming 12 Linux Programming 13 Mobile Computing 14 Mobile Application Security 15 Open Stack Cloud Computing 16 Operations Research 17 Principles Of Information Security 18 Scripting Languages 19 Social Media Intelligence 20 Software Engineering 21 Storage Area Networks 22 Web Usability 23Internet of Things	(Elective –IV) Big Data Analytics	(Elective –III) Cyber Security	Information Retrieval Systems
				Storage Area Networks		Soft Computing		
				Semantic Web and Social Networks		Distributed Computing	Data Mining	

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Communication Systems -61	(E4) Advanced Communications and Networks	4G Technologies	Optical Communications Technology	(E3) Wireless LANs and PANs	(OE2) Scripting Languages	(E4) Network Security and Cryptography		Coding Theory and Techniques	
				Wireless MIMO Communications	Image and Video Processing				Multimedia and Signal Coding
				Ad-hoc Wireless Networks	GPS and Applications				

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Web Technologies -62	Android Application Development		Semantic Web and Social Networks	(Elective –III) Human Computer Interaction	(O E2) 1 R-Programming 2 Android Application Development 3 Algorithmics 4 Big Data Analytics 5 Bioinformatics 6 Biometrics. 7 Computer Forensics 8 E – Commerce 9 Information Security And Audit 10 Intellectual Property Rights 11 Java Programming 12 Linux Programming 13 Mobile Computing 14 Mobile Application Security 15 Open Stack Cloud Computing 16 Operations Research 17 Principles Of Information Security 18 Scripting Languages 19 Social Media Intelligence 20 Software Engineering 21 Storage Area Networks 22 Web Usability	(Elective –IV) Big Data Analytics	(Elective –IV)	Web Services and Service Oriented Architecture
				Cyber Security		Distributed Systems	Cloud Computing	
				Software Architecture and Design Patterns		Distributed Computing		
				Computer Forensics				

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Power Engineering and Energy Systems -64	Power System Dynamics		Power System Operation and Deregulation	(Elective –III) Gas Insulated Systems(GIS)	(OE2) Instrumentation & Control	(Elective –IV) Reactive Power Compensation and Management		Flexible AC Transmission Systems (FACTS)	
				Programmable Logic Controllers and their applications	Intelligent Control Smart grid technologies				
				High frequency magnetic components	AI Techniques in Electrical Engineering				Power System Reliability
					Reliability Engineering				Voltage Stability
					Energy Auditing, Conservation & Management				
Wireless and Mobile Communication -65	Advanced communications & Networks	(Elective –IV) Software Defined Radio	(Core) Wireless MIMO Communications	(Elective –III) Optical Communications Technology	(OE2) Scripting Languages	Wireless Communications & Networks	(Elective –IV) Network Security and Cryptography	(Elective –III)	
		4G Technologies		Wireless LANs and PANS	Embedded system Design			Adhoc and Wireless Sensor Networks	
					Mobile Computing Technologies				

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VLSI and Embedded Systems -68	Low Power VLSI Design	(Elective –III)	(Elective –IV) Design for Testability	CMOS Mixed Signal Circuit Design	(OE2) Adhoc Wireless Networks	(Elective –IV)	(Elective –III) System On Chip Architecture	Real Time Operating Systems	
		Embedded Networking				Semiconductor Memory Design and Testing			
		Digital Signal Processors and Architectures							Sensors and Actuators
									Image and Video Processing
Electronics and Communication Engineering-70		Digital Signal Processors and Architectures	(Elective –IV) Wireless MIMO Communications	(Elective –III) Speech Signal Processing	(OE2) Image and Video Processing	Wireless Communications and Networks	(Elective –IV) Network Security And Cryptography	Coding Theory and Techniques	
			Optical Communications Technology	Biomedical Signal Processing	Software Defined Radio				
				Radar Signal Processing	Adhoc Wireless Networks				

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Control Systems -75	Optimal Control Theory	Adaptive and Learning Control	Instrumentation and Control	(Elective –IV) Advanced Digital Signal Processing	(OE2) Instrumentation & Control	(Elective –III) Intelligent Control Robust Control	(Elective –IV) Real Time Systems Robotics and Control	(Elective –III) Non-linear Systems	
					Intelligent Control				
					Smart Grid Technologies				
					AI Techniques in Electrical Engineering				
					Reliability Engineering				
					Energy Auditing Conservation & Management				
Aerospace Engineering -76	Flight Dynamics and Control	Aerospace Propulsion	Space Transportation Systems	(Elective –III) Mechanics of Composite Structures	(OE2) Industrial Aerodynamics and Wind Energy	(Elective –IV) Aero elasticity of Launch Vehicles Air Traffic Control			
				Flight Vehicle Design					
				Hypersonic Aerothermodynamics					Ground Vehicle Aerodynamics
				Airline Planning, Scheduling and Operations					
				Unmanned Aircraft Systems					Tactical Missiles Design
	Navigation Guidance and Control								
	Viscous Fluid Flow								
Embedded Systems & VLSI Design- 77	Low Power VLSI Design	(Elective –III)	(Elective –IV) Design for Testability	CMOS Mixed Signal Circuit Design	(OE2) Image and Video Processing	(Elective –IV)	(Elective –III) System On Chip Architecture	Real Time Operating Systems	
		Digital Signal Processors and Architectures							
		Embedded Networking							Adhoc Wireless Networks
		Sensors and Actuators		Full Custom Design					

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Computer Networks and Information Security -78	Network Security	Wireless Networks		ELECTIVE-III Digital Water Marking and Steganography Security Threats Network Management and Performance Evaluation Internet Technologies and Services	(OE2) 1 R-Programming 2 Android Application Development 3 Algorithmics 4 Big Data Analytics 5 Bioinformatics 6 Biometrics. 7 Computer Forensics 8 E – Commerce 9 Information Security And Audit 10 Intellectual Property Rights 11 Java Programming 12 Linux Programming 13 Mobile Computing 14 Mobile Application Security 15 Open Stack Cloud Computing 16 Operations Research 17 Principles Of Information Security 18 Scripting Languages 19 Social Media Intelligence 20 Software Engineering 21 Storage Area Networks 22 Web Usability	(Elective –IV) Storage Area Networks Distributed Systems Security Information Systems control and Audit	(Elective –IV) Cyber Security	Network Security Standards and Applications

DATE: 17/03/2022

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CONTROLLER OF EXAMINATIONS

# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY-HYDERABAD-500085

EXAMINATION BRANCH

**M.TECH . I YEAR II SEMESTER -R15 REGULATION SUPPLEMENTARY EXAMINATIONS APRIL-2022**

## T I M E T A B L E

**TIME : 09:45 AM TO 12:45 PM**

COURSE	06-04-2022 WEDNESDAY	08-04-2022 FRIDAY	11-04-2022 MONDAY	13-04-2022 WEDNESDAY	18-04-2022 MONDAY	20-04-2022 WEDNESDAY	22-04-2022 FRIDAY	25-04-2022 MONDAY
Mechatronics - 80	Micro Controller & Applications		Industrial Robotics	(Elective –III) Design for Manufacture & Assembly	(OE2) Simulation, Modeling of Manufacturing Systems Autotronics & Vehicle Intelligence	Fuzzy Logic & Neural Networks	(Elective –III) MEMS	(Elective –IV) Intelligent Manufacturing Systems
				Adaptive Manufacturing Processes	Experimental Techniques & Data Analysis			Computer Aided Metrology & Machine Vision
								Nano Composites- Design & Synthesis
Computer Networks -82	Network Security	Wireless Networks		(Elective –III) Internet Technologies and Services	(OE2) 1 R-Programming 2 Android Application Development 3 Algorithmics 4 Big Data Analytics 5 Bioinformatics 6 Biometrics. 7 Computer Forensics 8 E – Commerce 9 Information Security And Audit 10 Intellectual Property Rights 11 Java Programming 12 Linux Programming 13 Mobile Computing 14 Mobile Application Security 15 Open Stack Cloud Computing 16 Operations Research 17 Principles Of Information Security 18 Scripting Languages 19 Social Media Intelligence 20 Software Engineering 21 Storage Area Networks 22 Web Usability	(Elective –IV) Storage Area Networks	(Elective –IV) Cyber Security	Network Security Standards and Applications
				Digital Water Marking and Steganography				Distributed Systems Security
				Security Threats				Information Systems Control And Audit
				Network Management and Performance Evaluation				

DATE: 17/03/2022

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Highway Engineering -87	Traffic Analysis	(Elective –III)  Land use and Transportation Modeling	(Elective –III) Environmental Impact Assessment for Transportation Projects	Pavement Analysis and Design	(OE2) Optimization Techniques	(Elective –IV) Intelligent transportation systems	Pavement Construction, Maintenance & Management	(Elective –III) Highway Project Formulation and Economics		
					Disaster Management					
					Finite Element Method				Rural Roads	
									Airport Engineering	
Electronics and Instrumentation -88	Industrial Automation	Industrial Data Communications		(Elective –III) Advanced Instrumentation Systems	(OE2) Sensors and Actuators	(Elective –IV) MEMS and Applications	Advanced Process Control Instrumentation	(OE2) Instrumentation Practices in Industries		
				Quality and Reliability Engineering	Multimedia and Signal Coding				Robotic Design and Control	
				CPLD and FPGA Architectures and Applications					Advanced Image Processing	
Heating Ventilation & Air Conditioning -91	Air Conditioning	Ventilation systems	Heating systems	(Elective –III) Environmental friendly refrigerants	(OE2) Advanced optimization techniques	(Elective –IV) Advanced materials for Thermal Systems				
				Ducting & A/C Supply systems					Green building concepts	Unconventional Refrigeration & Air-Conditioning systems
				A/C instrumentation & control systems						Maintenance of A/C equipment

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Engineering Design -95	Experimental Stress Analysis	(OE2) Advanced Optimization Techniques & Applications	(Elective –III) Industrial Robotics	(Elective –III)	Mechanical Behavior of Engineering Materials	(Elective –IV) Vehicle Dynamics	Advanced Finite Element Analysis	(Elective –III) Advanced Engineering Design
		Computational Fluid Dynamics		Fuzzy logic & Neural Networks		Design and Analysis of Experiments		
				Structural Health monitoring				
Construction Management -A1	Construction Methods and Equipment	Construction and Contract Management		(Elective –III) Construction Economics and Finance	(OE2) Critical Chain Management	(Elective –IV) Under Water Construction	(Elective –IV) Advanced concrete Technology.	Civil Engineering Materials and Recent Advances
					Strategic Management in Construction	Urban/Regional Transportation Analysis and Planning Methods		
				Waste Management System	Disaster Management			
				Building services.				

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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