

# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY-HYDERABAD-500085

EXAMINATION BRANCH

## M.TECH-I SEMESTER -R17 REGULATION-REGULAR/ SUPPLEMENTARY EXAMINATIONS DECEMBER 2018

### T I M E T A B L E

**TIME: 10:00 AM TO 1:00 PM**

Course	17-12-2018 MONDAY	19-12-2018 WEDNESDAY	21-12-2018 FRIDAY	24-12-2018 MONDAY	28-12-2018 FRIDAY	31-12-2018 MONDAY	02-01-2019 WEDNESDAY	04-01-2019 FRIDAY
CAD/CAM-04	Elective-II Computer Aided Process Planning	Elective-II Automation in Manufacturing	Advanced FEM	Elective-I	Computer Aided Manufacturing	OEI	Elective-II Performance Modeling and Analysis of Manufacturing Systems	Advanced CAD
				Mechanical Behavior of Materials		Electrical Installation And Safety		
				Stress Analysis and Vibration		Fundamentals Of Cyber Security		
				Additive Manufacturing Technologies		Computer Oriented Numerical Methods		
						Renewable Energy Systems		
						Principles Of Electronic Communications		
COMPUTER SCIENCE-05	Advanced Algorithms	Software Engineering	Elective-I Network Security and Cryptography	Elective-I	Elective-II Parallel and Distributed Algorithms	OEI	Elective-II Software Architecture and Design Patterns	Computer Networking
				Internet of Things		Principles Of Electronic Communications		
				Mobile Application Development		Optimization Techniques And Applications		
				Graph Theory		Embedded Systems		
						Game Theory		
						Electrical Installation And Safety		
						Computer Oriented Numerical Methods		
	Renewable Energy Systems							

DATE : 24-10-2018

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<b>DIGITAL SYSTEMS AND COMPUTER ELECTRONICS -06</b>		Advanced Digital System Design	Elective-I Advanced Data Communications	Real Time Operating Systems	Elective-II TCP/IP Internetworking	O E-I Fundamentals Of Cyber Security	Elective-II CPLD and FPGA Architectures and Applications	CMOS VLSI Design
			Digital Signal Processors and Architectures		Wireless Communications and Networks	Optimization Techniques And Applications		
			Image and Video Processing			Electrical Installation And Safety		
						Computer Oriented Numerical Methods		
						Renewable Energy Systems		
<b>ELECTRICAL POWER SYSTEMS -07</b>	Advanced Power System Analysis	Advanced Power System Protection	Modern Control Theory	Elective-I		OE-I Fundamentals Of Cyber Security	Elective-II Distribution Automation	Elective-I EHV AC Transmission
				Advanced Digital Signal Processing		Principles Of Electronic Communications	Microcontrollers and applications	High Voltage Engineering
						Computer Oriented Numerical Methods	Power Quality	
						Optimization Techniques And Applications		

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ENVIRONMENTAL ENGINEERING - 11	Environmental Chemistry and Microbiology	Advanced Water Supply Systems	Elective-I Environment and Ecology	Elective-II Environmental Impact Assessment	Elective-II	OE-I Renewable Energy Systems	Advanced Waste Water Treatment		
			Environmental Hydrology		Environmental Sanitation				
			Watershed Management		Environmental System Engineering				Electrical Installation And Safety
									Optimization Techniques And Applications
									Principles Of Electronic Communications
					Fundamentals Of Cyber Security				
GEOTECHNICAL ENGINEERING - 12	Advanced Soil Mechanics	Elective-II Rock Mechanics and Engineering	Soil Dynamics and Machine Foundations		Advanced Foundation Engineering	OE-I Renewable Energy Systems		Elective-I Earth & Rockfill Dams	
		Physical Modeling in Geotechnical Engineering.				Electrical Installation And Safety			
		Soil - Structure Interaction				Optimization Techniques And Applications			
						Principles Of Electronic Communications			
						Fundamentals Of Cyber Security			
						Optimization Techniques Applied Statistics			

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MACHINE DESIGN - 15	Mechanical Behavior of Engineering Materials	Advanced Mechanics of Solids	ELECTIVE-I Vibration Analysis of Mechanical Systems	ELECTIVE-I	ELECTIVE-II	OE-I Fundamentals Of Cyber Security	ELECTIVE-II Design for Manufacturing & Assembly	Computer Aided Geometric Modeling for Design			
				Design Optimization	Advanced Mechanics of Composite Materials				Principles Of Electronic Communications		
				Mechanics of Metal Forming						Additive Manufacturing Technologies	Electrical Installation And Safety
											Computer Oriented Numerical Methods
											Renewable Energy Systems
PRODUCTION ENGINEERING .-16	Theory of Metal Cutting	ELECTIVE-I Machine Tool Design Automation in Manufacturing	Advanced Casting & Welding Technologies	Theory of Metal Forming	ELECTIVE-II	OE-I Computer Oriented Numerical Methods Renewable Energy Systems Electrical Installation And Safety Principles Of Electronic Communications Fundamentals Of Cyber Security	Elective-ii Design for Manufacturing & Assembly	ELECTIVE-I			
					Production & Operations Management			Precision Engineering			
					Quality Engineering in Manufacturing Systems						

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<b>STRUCTURAL ENGINEERING -20</b>		Structural Dynamics	Advanced Structural Analysis	ELECTIVE-II	ELECTIVE-I	OE-I		Theory of Elasticity
				Plastic Analysis & Design	Advanced Foundation Engineering	Renewable Energy Systems		
				Advanced Reinforced Concrete Design	Tall Buildings	Electrical Installation And Safety		
				Soil Dynamic & Foundation Engineering	Advanced Concrete Technology	Optimization Techniques And Applications		
						Principles Of Electronic Communications		
		Fundamentals Of Cyber Security						
<b>THERMAL ENGINEERING -21</b>	Advanced Thermodynamics	Advanced Heat Transfer	Advanced Fluid Mechanics	ELECTIVE-I	ELECTIVE-II	OE-I		ELECTIVE-I Renewable Energy Sources
				Fuels & Combustion	Thermal Measurements & Process Control	Computer Oriented Numerical Methods		
				Advanced Optimization Techniques & Applications	Advanced Materials for Thermal Systems	Renewable Energy Systems		
					Gas Dynamics	Electrical Installation And Safety		
						Principles Of Electronic Communications		
		Fundamentals Of Cyber Security						

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<b>TRANSPORTATION ENGINEERING - 22</b>	Traffic Engineering and Management	Urban Transportation Planning and Management	Pavement Material Characterization	ELECTIVE-I	Elective-ii	OE-I Renewable Energy Systems	ELECTIVE-II Road Safety Engineering	ELECTIVE-I
				Engineering of Ground	Advanced Concrete Technology			Bridge Engineering
				Transportation System Management	Highway Geometric Design			Electrical Installation And Safety
								Optimization Techniques And Applications
								Principles Of Electronic Communications
								Fundamentals Of Cyber Security
<b>SOFTWARE ENGINEERING - 25</b>	Advanced Algorithms	ELECTIVE-II Big Data Analytics	ELECTIVE-I Cryptography and Network Security	ELECTIVE-I	Software Development Methodologies	OE-I	ELECTIVE-II Web Mining	Software Requirements and Estimation
				Cloud Computing		Computer Oriented Numerical Methods		Machine Learning
				Database Internals		Renewable Energy Systems		Software Metrics and Quality Assurance
				Internet Technologies and Services		Electrical Installation And Safety		
						Optimization Techniques And Applications		
						Principles Of Electronic Communications		

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<b>MICROWAVE AND RADAR ENGINEERING. -30</b>	Advanced Electromagnetic Theory	ELECTIVE-II Detection and Estimation Theory	ELECTIVE-II	ELECTIVE-I	Radar Systems Engineering	OE-I Computer Oriented Numerical Methods	Microwave Components and Measurements	ELECTIVE-I
			Microwave Networks	Radio Navigational Aids				Satellite Communications
			Optical Communications and Networks	Advanced Digital Signal Processing				
<b>ADVANCED MANUFACTURING SYSTEMS - 33</b>	Theory of Metal Cutting	Automation in Manufacturing	ELECTIVE-I	ELECTIVE-II	Computer Aided Manufacturing	OE-I Computer Oriented Numerical Methods	ELECTIVE-I Design For Manufacturing and Assembly	ELECTIVE-II
			Product Data Management	Rapid Prototyping Technologies				Precision Engineering
			Special Manufacturing Process					Advanced Mechatronics

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<b>COMPUTER AND COMMUNICATION ENGINEERING -36</b>	ELECTIVE-II Voice over Internet Protocol Spread Spectrum Communications		Advanced Data Communications	ELECTIVE-I Mobile Computing Technologies Queuing Theory and Applications 3G Networks	TCP/IP Internetworking	OE-I	ELECTIVE-II Cognitive Radio Networks	Wireless Communications and Networks
						Computer Oriented Numerical Methods		
						Renewable Energy Systems		
						Electrical Installation And Safety		
						Optimization Techniques And Applications		
						Fundamentals Of Cyber Security		
<b>CONTROL ENGINEERING -37</b>			Modern Control Theory	ELECTIVE-I Process Modelling and Simulation Intelligent Control System Dynamics and Control	ELECTIVE-II Advanced Microprocessors Instrumentation and Control DSP Processor Architecture and Applications	OE-I	Digital Control Systems	Estimation of Signals and Systems.
						Computer Oriented Numerical Methods		
						Optimization Techniques And Applications		
						Principles Of Electronic Communications		
						Fundamentals Of Cyber Security		

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DIGITAL ELECTRONICS AND COMMUNICATION ENGINEERING/ SYSTEMS-38	ELECTIVE-I Spread Spectrum Communications	Advanced Digital System Design	ELECTIVE-I Image and Video Processing	ELECTIVE-II Advanced Computer Architecture	ELECTIVE-II	OE-I	Coding Theory and Techniques	Broadband Communications	
	Real Time Operating Systems				Optical Communications and Networks	Computer Oriented Numerical Methods			
					Advanced Digital Signal Processing	Renewable Energy Systems			
						Electrical Installation And Safety			
						Optimization Techniques And Applications			
Fundamentals Of Cyber Security									
INFORMATION TECHNOLOGY - 40	Advanced Algorithms	ELECTIVE-II Big Data Analytics	ELECTIVE-I	Internet of Things	Database Internals	OE-I	ELECTIVE-I Software Architecture and Design Patterns	ELECTIVE-II Computer Networking	
		Information Retrieval Systems	Multimedia and Rich Internet Applications			Computer Oriented Numerical Methods			
			Soft Computing			Parallel and Distributed Algorithms			Renewable Energy Systems
						Cryptography and Network Security			Electrical Installation And Safety
		Optimization Techniques And Applications							
Principles Of Electronic Communications									

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POWER AND INDUSTRIAL DRIVES-42	Machine Modeling and Analysis	Power Electronic Devices and Converters	Modern Control Theory	ELECTIVE-I	ELECTIVE-II	OE-I	ELECTIVE-II Digital Control Systems	
				Programmable Logic Controllers and Applications	Advanced Digital Signal Processing Electric Traction systems	Computer Oriented Numerical Methods		
				Special Machines		Optimization Techniques And Applications		
				High Frequency Magnetic Components		Principles Of Electronic Communications		
						Fundamentals Of Cyber Security		
POWER ELECTRONICS-43	Machine Modeling and Analysis	Power Electronic Devices and Converters	Modern Control Theory	ELECTIVE-I	ELECTIVE-II	OE-I	ELECTIVE-II Digital Control Systems	
				Programmable Logic Controllers and Applications	Advanced Digital Signal Processing Electric Traction systems	Computer Oriented Numerical Methods		
				Special Machines		Optimization Techniques And Applications		
				High Frequency Magnetic Components		Principles Of Electronic Communications		
						Fundamentals Of Cyber Security		

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SYSTEMS AND SIGNAL PROCESSING-45/93	ELECTIVE-I Digital System Design	ELECTIVE-I Biomedical Signal Processing Introduction to Navigational Aids	ELECTIVE-II Network Security and Cryptography	Random Processes and Time Series Analysis	ELECTIVE-II Advanced Digital Signal Processing VLSI Signal Processing	OE-I Computer Oriented Numerical Methods	Adaptive Signal Processing	Transform Techniques
						Renewable Energy Systems		
						Electrical Installation And Safety		
						Optimization Techniques And Applications		
						Fundamentals Of Cyber Security		
GEO-INFORMATICS AND SURVEYING TECHNOLOGY-47	Remote Sensing	Geographical Information System	Elements of Photogrammetry	ELECTIVE-II Environmental Impact Assessment  Database Management Systems  Advanced Surveying and Cartography	ELECTIVE-I Digital Image Processing-I	OE-I Renewable Energy Systems		
					Object Oriented Programming	Electrical Installation And Safety		
					Statistical Methods	Optimization Techniques And Applications		
						Principles Of Electronic Communications		
						Fundamentals Of Cyber Security		

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ELECTRICAL POWER ENGINEERING- 49	Advanced Power System Analysis	Advanced Power System Protection	Modern Control Theory	ELECTIVE-I		OE-I	ELECTIVE-II Power Quality	ELECTIVE-I High Voltage Engineering
				Advanced Digital Signal Processing		Computer Oriented Numerical Methods		
						Optimization Techniques And Applications	Distribution Automation	
						Principles Of Electronic Communications		
						Fundamentals Of Cyber Security		
				DESIGN FOR MANUFACTURING-52		Advanced Mechanics of Solids	ELECTIVE-II	ELECTIVE-I Special Manufacturing Processes
Theory of Elasticity & Plasticity	Advanced Finite Element Analysis	Computer Oriented Numerical Methods						
Advanced Computer Aided Design	MEMS & Micro Systems : Design & Manufacture	Renewable Energy Systems						
		Electrical Installation And Safety						
				Principles Of Electronic Communica Tions				
						Fundamentals Of Cyber Security		

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POWER SYSTEM CONTROL AND AUTOMATION-53	Advanced Power System Analysis	Advanced Power System Protection	Modern Control Theory	ELECTIVE-I		OE-I	ELECTIVE-II	ELECTIVE-I
				Advanced Digital Signal Processing		Computer Oriented Numerical Methods	Power Quality Microcontrollers and applications	High Voltage Engineering
						Optimization Techniques And Applications	Distribution Automation	EHV AC Transmission
						Principles Of Electronic Communications		
						Fundamentals Of Cyber Security		
POWER ELECTRONICS AND ELECTRIC DRIVES-54	Machine Modeling and Analysis	Power Electronic Devices and Converters	Modern Control Theory	ELECTIVE-I	ELECTIVE-II	OE-I Computer Oriented Numerical Methods Optimization Techniques And Applications Principles Of Electronic Communications Fundamentals Of Cyber Security	ELECTIVE-II Digital Control Systems	
				Programmable Logic Controllers and Applications	Advanced Digital Signal Processing			
				Special Machines	Electric Traction systems			
				High Frequency Magnetic Components				

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<b>EMBEDDED SYSTEMS-55</b>	ELECTIVE-II	ELECTIVE-I Advanced Computer Architecture	Real Time Operating Systems	ARM Processor Architectures	Embedded System Design	OE-I Computer Oriented Numerical Methods	ELECTIVE-I CPLD and FPGA Architectures and Applications	ELECTIVE-I CMOS VLSI Design
	Digital System Design					Renewable Energy Systems		
	TCP/IP Internetworking					Electrical Installation And Safety		
	Embedded C					Optimization Techniques And Applications		
<b>VLSI/ VLSI DESIGN/VLSI SYSTEM DESIGN-57</b>	ELECTIVE-I	Advanced Digital System Design	Device Modeling	ELECTIVE-II Advanced Computer Architecture	ELECTIVE-II Embedded System Design Algorithms for VLSI Design Automation	OE-I Computer Oriented Numerical Methods	ELECTIVE-I CPLD and FPGA Architectures and Applications	CMOS Analog Integrated Circuit Design
	VLSI Technology					Renewable Energy Systems		
	Hardware Software Co-Design					Electrical Installation And Safety		
						Optimization Techniques And Applications		
						Fundamentals Of Cyber Security		

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COMPUTER SCIENCE AND ENGINEERING - 58	Advanced Algorithms	Software Engineering	ELECTIVE-I Network Security and Cryptography	ELECTIVE-I	Elective-ii	OE-I Computer Oriented Numerical Methods	ELECTIVE-II Software Architecture and Design Patterns	Computer Networking	
				Internet of Things	Parallel and Distributed Algorithms				
				Mobile Application Development	Embedded Systems Game Theory				Renewable Energy Systems
				Graph Theory					Electrical Installation And Safety
									Optimization Techniques And Applications
									Principles Of Electronic Communications
COMMUNICATION SYSTEMS - 61	Spread Spectrum Communications	ELECTIVE-I Detection and Estimation Theory	Advanced Data Communications	ELECTIVE-I Advanced Digital Signal Processing	ELECTIVE-II TCP/IP Internetworking	OE-I Computer Oriented Numerical Methods Renewable Energy Systems	ELECTIVE-II Cognitive Radio Networks	Wireless Communications and Networks	
				Radio Navigational Aids					Radar Systems Engineering
					Electrical Installation And Safety				
									Optimization Techniques And Applications
	Fundamentals Of Cyber Security								

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WEB TECHNOLOGY - 62	Advanced Algorithms	Web Technologies and Services	ELECTIVE-II	ELECTIVE-I Database Internals	ELECTIVE-I	OE-I Computer Oriented Numerical Methods Renewable Energy Systems Electrical Installation And Safety Optimization Techniques And Applications Principles Of Electronic Communications	ELECTIVE-I Web Mining	Computer Networking
			Multimedia and Rich Internet Applications		Semantic Web and Social Networks			
			Object Oriented Modeling		Web Security			
			Scripting Languages					
			Information Retrieval Systems					
POWER ENGINEERING & ENERGY SYSTEMS 64	Advanced Power System Analysis	Advanced Power System Protection	Renewable Energy Technologies	ELECTIVE-I	OE-I Fundamentals Of Cyber Security Principles Of Electronic Communications Computer Oriented Numerical Methods Optimization Techniques And Applications	ELECTIVE-II Power Quality Microcontrollers and applications Distribution Automation	ELECTIVE-I High Voltage Engineering EHV AC Transmission	
				Advanced Digital Signal Processing				
WIRELESS AND MOBILE COMMUNICATIONS-65	ELECTIVE-II	ELECTIVE-I	Advanced Data Communications	Random Processes and Time Series Analysis	ELECTIVE-II	OE-I Computer Oriented Numerical Methods Renewable Energy Systems Electrical Installation And Safety Optimization Techniques And Applications Fundamentals Of Cyber Security	ELECTIVE-I Coding Theory and Techniques	Wireless Communications and Networks
	Voice over Internet Protocol	Detection and Estimation Theory			TCP/IP Internetworking			
	Queuing Theory and Applications	Radio Navigational Aids						

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<b>VLSI AND EMBEDDED SYSTEMS-68</b>	ELECTIVE-I	ELECTIVE-II	VLSI Technology	Elective-i	Embedded System Design	OE-I	ELECTIVE-II	CMOS Analog Integrated Circuit Design	
	Digital System Design	CMOS Digital Integrated Circuit Design		Advanced Computer Architecture		Computer Oriented Numerical Methods			CPLD and FPGA Architectures and Applications
	Hardware Software Co-Design	VLSI DSP Architectures				Renewable Energy Systems			
						Electrical Installation And Safety			
						Optimization Techniques And Applications			
						Fundamentals Of Cyber Security			
<b>ELECTRONICS AND COMMUNICATION ENGINEERING .70</b>	Digital System Design	ELECTIVE-I	ELECTIVE-I	ELECTIVE-II	Advanced Digital Signal Processing	OE-I	Coding Theory and Techniques		
		Detection and Estimation Theory	Digital Signal Processors and Architectures	Real Time Operating Systems		Computer Oriented Numerical Methods			
			Speech Signal Processing	Adhoc Wireless Sensor Networks		Renewable Energy Systems			
				Advanced Computer Architecture		Electrical Installation And Safety			
						Optimization Techniques And Applications			
						Fundamentals Of Cyber Security			

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# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY-HYDERABAD-500085

EXAMINATION BRANCH

**M.TECH-I SEMESTER -R17 REGULATION-REGULAR/ SUPPLEMENTARY EXAMINATIONS DECEMBER 2018**

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

**TIME: 10:00 AM TO 1:00 PM**

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CONTROL SYSTEMS – 75			Modern Control Theory	ELECTIVE-I Process Modelling and Simulation	ELECTIVE-II Advanced Microprocessors	OE-I Computer Oriented Numerical Methods	Digital Control Systems	Estimation of Signals and Systems.
				Intelligent Control	Instrumentation and Control	Optimization Techniques And Applications		
				System Dynamics and Control	DSP Processor Architecture and Applications	Principles Of Electronic Communications		
						Fundamentals Of Cyber Security		
EMBEDDED SYSTEMS & VLSI DESIGN-77	ELECTIVE-I Digital System Design	ELECTIVE-II CMOS Digital Integrated Circuit Design	VLSI Technology	ELECTIVE-I Advanced Computer Architecture	Embedded System Design	OE-I Computer Oriented Numerical Methods	ELECTIVE-II CPLD and FPGA Architectures and Applications	CMOS Analog Integrated Circuit Design
	Hardware Software Co-Design	VLSI DSP Architectures				Renewable Energy Systems		
						Electrical Installation And Safety		
						Optimization Techniques And Applications		
						Fundamentals Of Cyber Security		

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COMPUTER NETWORKS AND INFORMATION SECURITY (CNIS) -78	Advanced Algorithms	Computer Networking	Cryptography and Network Security	ELECTIVE-I	ELECTIVE-II	OE-I Computer Oriented Numerical Methods		
				Cloud Computing	Internet of Things			
				Privacy and Security in Cyber Space	Embedded Systems Distributed Systems and security			
				Software Defined Networks				
				Network Management and Performance Evaluation	Database Security			
MECHATRONICS -80	Applied Industrial Pneumatics	Automation in Manufacturing	Industrial Electrical & Electronics	ELECTIVE-II	ELECTIVE-I	OE-I Computer Oriented Numerical Methods		ELECTIVE-I Precision Engineering
				Control systems	Photo Voltaic & Solar Thermal Systems			
				Instrumentation & Sensor Technology				
				Programmable Logic Controller & Applications	Advanced CNC Technology			

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COMPUTER NETWORKS-82	Advanced Algorithms	Computer Networking	Cryptography and Network Security	ELECTIVE-I	ELECTIVE-II	OE-I Computer Oriented Numerical Methods		
				Cloud Computing	Internet of Things			
				Software Defined Networks	Embedded Systems			
				Privacy and Security in Cyber Space	Distributed Systems and security			
			Network Management and Performance Evaluation		Database Security	Electrical Installation And Safety		
						Optimization Techniques And Applications		
						Principles Of Electronic Communications		
HIGHWAY ENGINEERING - 87	Urban Transportation Planning and Management	Traffic Engineering and Control	Pavement Material Characterization	ELECTIVE-II	ELECTIVE-II	OE-I Renewable Energy Systems	ELECTIVE-I Road Safety Engineering	ELECTIVE-I Bridge Engineering
				Transportation System Management	Advanced Concrete Technology			
					Highway Geometric Design			
						Electrical Installation And Safety	Ground Improvement Techniques	
						Optimization Techniques And Applications		
						Principles Of Electronic Communications		
						Fundamentals Of Cyber Security		

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HEATING VENTILATION & AIR CONDITIONING -91	Advanced Thermodynamics	Refrigeration	Air Conditioning	ELECTIVE-I Renewable Energy Sources  Computational Fluid Dynamics	ELECTIVE-II	OE-I Computer Oriented Numerical Methods	ELECTIVE-I Cryogenic Engineering	
					Equipment Design for Thermal Systems			
					Alternative Refrigerants			
					Cold Storage Technology& Systems			
					Renewable Energy Systems			
					Electrical Installation And Safety			
Principles Of Electronic Communications								
Fundamentals Of Cyber Security								
ENGINEERING DESIGN. - 95	Advanced Mechanics of Solids	Advanced Mechanics of Machinery	Vibration Analysis of Mechanical Systems	ELECTIVE-I Design Optimization Computer Simulation of Machines	ELECTIVE-II	OE-I Computer Oriented Numerical Methods	Elective-ii Design for Manufacturing & Assembly	ELECTIVE-I Theory of Elasticity
					Mechanics of Metal Forming			
					Advanced Mechanics of Composite Materials			
					Renewable Energy Systems			
					Electrical Installation And Safety			
					Principles Of Electronic Communications			
Fundamentals Of Cyber Security								

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<b>CONSTRUCTION MANAGEMENT - A1</b>	ELECTIVE-I Construction Project planning and Administration.	Quantitative Methods in Construction Management	ELECTIVE-II Geotechnics for Infrastructure.	ELECTIVE-I	Construction Methods and Equipment	OE-I Renewable Energy Systems	ELECTIVE-II Integrated Water Resources	Construction Engineering practices
				Infrastructure Valuation		Electrical Installation And Safety		
				Formwork and scaffolding design.		Optimization Techniques And Applications		
						Principles Of Electronic Communications		
						Fundamentals Of Cyber Security		
						Management. Repair & Rehabilitation of Buildings		
<b>CYBER FORENSICS &amp; INFORMATION SECURITY - A2</b>	ELECTIVE-I Advanced Algorithms	Applied Cryptography	Network and Wireless Security	ELECTIVE-I	ELECTIVE-II	OE-I	ELECTIVE-II Machine Learning	Secure Operating System
				Database Security	Web Security	Computer Oriented Numerical Methods		
				Cloud Computing and Security	Distributed Systems	Renewable Energy Systems		
				Information Systems Control And Audit	Mobile Application Security	Electrical Installation And Safety		
						Optimization Techniques And Applications		
						Principles Of Electronic Communications		

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CYBER SECURITY - A3	ELECTIVE-I Advanced Algorithms	Applied Cryptography	Network and Wireless Security	ELECTIVE-I	ELECTIVE-II	OE-I Computer Oriented Numerical Methods	ELECTIVE-II 1. Machine Learning	Secure Operating System		
				Database Security					Renewable Energy Systems	
				Cloud Computing and Security					Web Security	Electrical Installation And Safety
				Information Systems Control And Audit					Distributed Systems	Optimization Techniques And Applications
VLSI DESIGN- A5	ELECTIVE-I	Advanced Digital System Design	Device Modeling	( ELECTIVE-II) Advanced Computer Architecture	ELECTIVE-II	OE-I Computer Oriented Numerical Methods	ELECTIVE-I CPLD and FPGA Architectures and Applications	CMOS Analog Integrated Circuit Design		
	VLSI Technology								Algorithms for VLSI Design Automation	Renewable Energy Systems
	Hardware Software Co-Design								Embedded System Design	Electrical Installation And Safety
										Optimization Techniques And Applications
										Fundamentals Of Cyber Security

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