

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY-HYDERABAD-500085

EXAMINATION BRANCH

M.TECH-II SEMESTER -R15 REGULATION SUPPLEMENTARY EXAMINATIONS JANUARY-2020

T I M E T A B L E

TIME : 10:00 AM TO 1:00 PM

COURSE	09-01-2020 THURSDAY	11-01-2020 SATURDAY	17-01-2020 FRIDAY	20-01-2020 MONDAY	22-01-2020 WEDNESDAY	24-01-2020 FRIDAY	27-01-2020 MONDAY	29-01-2020 WEDNESDAY
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		
						Fuzzy Logic and Neural Networks		
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 Data Mining	Information Retrieval Systems
				Storage Area Networks		Soft Computing		
				Semantic Web and Social Networks		Distributed Computing		

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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) Software Defined Radio	(Elective-III) Network Security and Cryptography	(Elective-III) System on Chip Architecture	Real Time Operating Systems
				Low Power VLSI Design	Adhoc Wireless Networks			
				Device Modeling	Scripting Languages			
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			
					AI Techniques in Electrical Engineering			
				Reliability Engineering	Power System Reliability			
				Energy Auditing, Conservation & Management	Voltage Stability			
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			
				Water Quality Modeling				
						Environmental Biotechnology		
						Hazardous Waste management		

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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	(Elective –IV) Cyber Security	(Elective –III) Scripting Languages Information Retrieval Systems
						Information Security And Audit		
						Business Process Management		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		
				Phased Array Systems	Software Defined Radio	Detection and Estimation Theory		
				Optical Communication Technology	Adhoc Wireless Networks	Wireless Communication and 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	(Elective –III) Quality Engineering in Manufacturing	
			Advanced Tool Design		Engineering Research & Methodology	Vibrational Analysis & Conditioning Monitoring		
						Concurrent Engineering & Product life cycle Management		
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	Software Defined Radio			
				Radar Signal processing	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	(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	Cloud Computing	(Elective –IV) E-Commerce
				Internet Technologies and Services		Cyber Security		
				Semantic Web and Social Networks				
				Embedded Systems				

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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			
					Reliability Engineering			
Energy Auditing, Conservation & Management								

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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	(Elective –IV) Coding Theory and Techniques	
				CPLD and FPGA Architectures and Applications					
				Digital Control Systems					
				System on Chip Architecture					
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		Flexible AC Transmission Systems (FACTS)	
				Programmable Logic Controllers and their applications	Intelligent Control				Power System Reliability
				High frequency magnetic components	Smart grid technologies				
					AI Techniques in Electrical Engineering	Voltage Stability			
					Reliability Engineering				
					Energy Auditing, Conservation & Management				
				Design for manufacturing- 52	Design of Hydraulic & Pneumatic Systems	(Elective –IV) Advanced Optimization Techniques & Applications			Advanced Tool Design
Product Data Management	Smart Materials & Structures								
Neural Network & Fuzzy Logic	Vibration Analysis & Condition Monitoring								

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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)	(Elective –IV)	(Elective –III)	Information Retrieval Systems
				Storage Area Networks	1 R-Programming 2 Android Application Development	Big Data Analytics Soft Computing	Cyber Security	
				Semantic Web and Social Networks	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 Internet of Things	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) Cloud Computing	Web Services and Service Oriented Architecture
				Cyber Security		Distributed Systems		
				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) Semiconductor Memory Design and Testing	(Elective –III) System On Chip Architecture	Real Time Operating Systems
		Embedded Networking						
		Digital Signal Processors and Architectures						
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	Ground Vehicle Aerodynamics			
				Hypersonic Aerothermodynamics				
				Airline Planning, Scheduling and Operations				
				Unmanned Aircraft Systems				
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) Semiconductor Memory Design and Testing	(Elective –III) System On Chip Architecture	Real Time Operating Systems
		Digital Signal Processors and Architectures			Adhoc Wireless Networks			
		Embedded Networking				Sensors and Actuators		

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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

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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 Distributed Systems Security Information Systems Control And Audit	(Elective –IV) Cyber Security	Network Security Standards and Applications
				Digital Water Marking and Steganography				
				Security Threats				
				Network Management and Performance Evaluation				

DATE:21/11/2019

Sd/-
CONTROLLER OF EXAMINATIONS

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY-HYDERABAD-500085

EXAMINATION BRANCH

M.TECH-II SEMESTER -R15 REGULATION- SUPPLEMENTARY EXAMINATIONS JANUARY-2020

T I M E T A B L E

TIME : 10:00 AM TO 1:00 PM

COURSE	09-01-2020 THURSDAY	11-01-2020 SATURDAY	17-01-2020 FRIDAY	20-01-2020 MONDAY	22-01-2020 WEDNESDAY	24-01-2020 FRIDAY	27-01-2020 MONDAY	29-01-2020 WEDNESDAY
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 Rural Roads Airport Engineering	Pavement Construction, Maintenance & Management	(Elective –III) Highway Project Formulation and Economics
					Disaster Management			
					Finite Element Method			
Electronics and Instrumentation -88	Industrial Automation	Industrial Data Communications		(Elective –III) Advanced Instrumentation Systems	(OE2) Sensors and Actuators	(Elective –IV) MEMS and Applications Robotic Design and Control Advanced Image Processing	Advanced Process Control Instrumentation	(OE2) Instrumentation Practices in Industries
				Quality and Reliability Engineering	Multimedia and Signal Coding			
				CPLD and FPGA Architectures and Applications				
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 Unconventional Refrigeration & Air-Conditioning systems Maintenance of A/C equipment		
				Ducting & A/C Supply systems	Green building concepts			
				A/C instrumentation & control systems				

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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.				

DATE: 21/11/2019

Sd/-
CONTROLLER OF EXAMINATIONS

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 US