

# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY-HYDERABAD-500085

EXAMINATION BRANCH

**M.TECH-II SEMESTER -R15 REGULATION SUPPLEMENTARY EXAMINATIONS JANUARY-2018**

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

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

COURSE	05-01-2018 FRIDAY	08-01-2018 MONDAY	10-01-2018 WEDNESDAY	12-01-2018 FRIDAY	18-01-2018 THURSDAY	20-01-2018 SATURDAY	23-01-2018 TUESDAY	25-01-2018 THURSDAY
CAD/CAM-04	Design for Manufacturing And Assembly	Flexible Manufacturing Systems	Industrial Robotics	ELECTIVE-III Special Manufacturing Process	(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) Data Mining	(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		Information Retrieval Systems
				Storage Area Networks		Soft Computing		
				Semantic Web and Social Networks		Distributed Computing		
				Cyber Security				

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DIGITAL SYSTEM & COMPUTER ELECTRONICS -06	Advanced Computer Architecture	Digital Signal Processors and Architectures	Real Time Operating Systems		(OE2) Software Defined Radio	(Elective-IV)	(Elective-III) Network Security and Cryptography	(Elective-IV) Design for Testability	
					Adhoc Wireless Networks	Elective -IV) Low Power VLSI Design			System on Chip Architecture
					Scripting Languages		Device Modeling		Elective-III) 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				Power System Reliability
				High frequency magnetic components	Smart grid technologies	Reliability Engineering			
					AI Techniques in Electrical Engineering				
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 Geotechnology			
					Environmental Health and Safety				Environmental Biotechnology
				Disaster Management	Remote Sensing and GIS	Hazardous Waste management			
				Water Quality Modeling					

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

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Thermal Engineering- 21	Combustion & Environment	(OE2)	Computational Fluid Dynamics	(Elective –III) Alternate Fuels		(Elective –IV) Convective Heat Transfer	(OE2) Advanced Finite Element Analysis	Advanced Heat and Mass Transfer
		Energy Management		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  Airport Engineering	Pavement Analysis and Design	(OE2)	(Elective –IV) Pavement Construction Maintenance and Management	(Elective –III) Environmental Impact assessment for Transportati on Projects	(OE2) Finite Element Method
				Optimization Techniques		Intelligent transportation systems		
				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 24 Embedded systems	(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		
				Phased Array Systems		Detection and Estimation Theory		
				Optical Communication Technology	Software Defined Radio	Wireless Communication and Networks		
				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	(Elective –III) Quality Engineering in Manufacturing	
			Advanced Tool Design			Vibrational Analysis & Conditioning Monitoring		
					Engineering Research & Methodology	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				
				Radar Signal processing	Software Defined Radio			
					Adhoc Wireless Networks			

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Information Technology-40	Machine Learning	Android Application Development		(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) E-Commerce	Cloud Computing	
				Internet Technologies and Services		Software Quality Assurance and Testing		
				Semantic Web and Social Networks		Computer Forensics		
				Embedded Systems		Cyber Security		

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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) Flexible AC Transmission Systems	(Elective –III) Power Quality	
					Instrumentation & Control			
					Intelligent Control	High-Frequency Magnetic Components	Advanced Digital Signal Processing	
					Smart grid technologies			
					AI Techniques in Electrical Engineering	Dynamics of Electrical Machines	Switched Mode Power Supplies (SMPS)	
					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) Flexible AC Transmission Systems	(Elective –III) Power Quality	
					Instrumentation & Control			
					Intelligent Control	High-Frequency Magnetic Components	Advanced Digital Signal Processing	
					Smart grid technologies			
					AI Techniques in Electrical Engineering	Dynamics of Electrical Machines	Switched Mode Power Supplies (SMPS)	
					Reliability Engineering			
Energy Auditing, Conservation & Management								

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

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Systems and Signal processing -45/93	Adaptive Signal Processing	Digital Signal Processors and Architectures	Speech Signal Processing	(Elective –III) Ad-hoc Wireless Networks	(Elective –IV) Image and Video Processing	(Elective –IV) Spread Spectrum Communication	(OE2) Advanced Communications & Networks	Coding Theory and Techniques
				CPLD and FPGA Architectures and Applications			Digital Control Systems	
				Real-time Operating 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			
				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	Precision Engineering		(Elective –III) Intelligent Manufacturing Systems	(OE2) Concurrent Engineering & Product Life Cycle Management	(Elective –IV) Smart Materials & Structures	Advanced Tool Design	(Elective –IV) Advanced Optimization Techniques & Applications
				Product Data Management	Experimental Techniques & Data Analysis	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			
					AI Techniques in Electrical Engineering			
					Reliability Engineering			
Energy Auditing, Conservation & Management								
Embedded Systems -55	(Elective –IV) Multimedia and Signal Coding  Hardware Software Co-Design  Network Security and Cryptography	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
					Device Modeling			
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  Semiconductor Memory Design and Testing	(OE2) Adhoc Wireless Networks	(Elective –III) VLSI and DSP Architectures Full custom Design	(Elective –IV) System On Chip Architecture	OE2) Coding Theory and Techniques
					Scripting Languages			

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Computer Science Engineering - 58	Network Programming	Elective-IV Software Process and Project Management	Internet Technologies and Services	(Elective –III) Data Mining Storage Area Networks Semantic Web and Social Networks	(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 23 Internet of Things	(Elective –IV) Big Data Analytics Soft Computing Distributed Computing	(Elective –III) Cyber Security	Information Retrieval Systems

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Communicatin Systems -61		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	Advanced Communications and Networks		
				Ad-hoc Wireless Networks	GPS and Applications	Multimedia and Signal Coding		

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Web Technologies -62	Android Application Development	Web Services and Service Oriented Architecture	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	
				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	Wireless Communications & Networks	(Elective –III) Optical Communications Technology	(OE2) Scripting Languages	(Core) Wireless MIMO Communications	(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	CMOS Mixed Signal Circuit Design	Real Time Operating Systems	(Elective –III) Embedded Networking	(OE2) Adhoc Wireless Networks	(Elective –IV)	(Elective –III) System On Chip Architecture	(Elective – IV) Design for Testability
				Digital Signal Processors and Architectures	Sensors and Actuators	Semiconductor Memory Design and Testing		
				Image and Video Processing	Full Custom Design			
Electronics and Communication Engineering-70		Digital Signal Processors and Architectures	(Elective –IV) Wireless MIMO Communications  Optical Communications Technology	(Elective –III) Speech Signal Processing	(OE2) Image and Video Processing	Wireless Communications and Networks	(Elective –IV) Network Security And Cryptography	Coding Theory and Techniques
				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)	(OE2)	(Elective –III)	(Elective –IV)	(Elective –III)
				Real Time Systems	Instrumentation & Control	Intelligent Control	Advanced Digital Signal Processing	Non-linear Systems
				Robotics and Control		Robust Control		
					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)	(OE2)	(Elective –IV)		
				Mechanics of Composite Structures	Industrial Aerodynamics and Wind Energy	Aero elasticity of Launch Vehicles		
				Flight Vehicle Design		Air Traffic Control		
				Hypersonic Aerothermodynamics	Ground Vehicle Aerodynamics	Tactical Missiles Design		
				Airline Planning, Scheduling and Operations		Navigation Guidance and Control		
Unmanned Aircraft Systems		Viscous Fluid Flow						
Embedded Systems & VLSI Design-77	Low Power VLSI Design	CMOS Mixed Signal Circuit Design	Real Time Operating Systems	(Elective –III)	(OE2)	(Elective –IV)	(Elective –III)	(Elective –IV)
				Digital Signal Processors and Architectures	Image and Video Processing	Semiconductor Memory Design and Testing	System On Chip Architecture	Design for Testability
					Adhoc Wireless Networks	Full Custom Design		
			Embedded Networking	Sensors and Actuators				

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Computer Networks and Information Security -78	Network Security	Wireless Networks	Elective –III) Internet Technologies and Services	ELECTIVE-III Digital Water Marking and Steganography Security Threats Network Management and Performance Evaluation	(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 23 Cyber Security	(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	Fuzzy Logic & Neural Networks	Industrial Robotics	(Elective –III) Design for Manufacture & Assembly	(OE2) Simulation, Modeling of Manufacturing Systems Autotronics & Vehicle Intelligence	ELECTIVE-IV Computer Aided Metrology & Machine Vision  Nano Composites- Design & Synthesis	(Elective –III) MEMS	(Elective –IV) Intelligent Manufacturing Systems
				Adaptive Manufacturing Processes	Experimental Techniques & Data Analysis			
Computer Networks -82	Network Security	Wireless Networks	Network Security Standards and Applications	(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	
				Digital Water Marking and Steganography				
				Security Threats				
				Network Management and Performance Evaluation				

# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY-HYDERABAD-500085

EXAMINATION BRANCH

**M.TECH-II SEMESTER -R15 REGULATION- SUPPLEMENTARY EXAMINATIONS JANUARY-2018**

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

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

COURSE	05-01-2018 FRIDAY	08-01-2018 MONDAY	10-01-2018 WEDNESDAY	12-01-2018 FRIDAY	18-01-2018 THURSDAY	20-01-2018 SATURDAY	23-01-2018 TUESDAY	25-01-2018 THURSDAY
Highway Engineering -87	Traffic Analysis	(Elective –III)  Land use and Transportation Modeling	(Elective –III) Highway Project Formulation and Economics	Pavement Analysis and Design	(OE2) Optimization Techniques	(Elective –IV) Intelligent transportation systems  Rural Roads Airport Engineering	Pavement Construction, Maintenance & Management	
			Disaster Management		Finite Element Method			
			Environmental Impact Assessment for Transportation Projects					
Electronics and Instrumentation -88	Industrial Automation	Industrial Data Communications	Advanced Process Control Instrumentation	(Elective –III) Advanced Instrumentation Systems	(OE2) Sensors and Actuators	(Elective –IV) MEMS and Applications Robotic Design and Control		
				Quality and Reliability Engineering				
				CPLD and FPGA Architectures and Applications	Instrumentation Practices in Industries			
				Multimedia and Signal Coding	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 REGULAR/SUPPLEMENTARY systems				
				A/C instrumentation & control systems	Unconventional Refrigeration & Air-Conditioning systems			
						Maintenance of A/C equipment		

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Engineering Design -95	Experimental Stress Analysis	Mechanical Behavior of Engineering Materials	(Elective –III) Industrial Robotics	(Elective –III)		(Elective –IV) Vehicle Dynamics	Advanced Finite Element Analysis	(OE2) Advanced Optimization Techniques & Applications
				Advanced Engineering Design		Design and Analysis of Experiments		
				Fuzzy logic & Neural Networks		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 :08-12-2017

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