JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY-HYDERABAD-500085

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

I YEAR M.TECH.-I SEMESTER–R15, REGULATION- SUPPLEMENTARY EXAMINATIONS JUNE-2019

TIME TABLE FOR SUBSTITUTE SUBJECTS FOR READMITTED STUDENTS

T I M E T A B L E

TIME: 10:00 AM TO 1:00 PM

COURSE	06-07-2019
	SATURDAY
Highway Engineering-87	Renewable Energy Systems

DATE: 17-05-2019

Sd/-

CONTROLLER OF EXAMINATIONS

NOTE:

    (ɪ). ANY OMISSIONS OR CLASHES IN THIS TIME TABLE MAY PLEASE BE INFORMED TO THE CONTROLLER OF EXAMINATIONS
IMMEDIATELY

    (ɪɪ). EVEN IF GOVERNMENT DECLARES HOLIDAY ON ANY OF THE ABOVE DATES.THE EXAMINATIONS SHALL BE CONDUCTED AS USUAL

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TIME TABLE FOR SUBSTITUTE SUBJECTS FOR READMITTED STUDENTS

T I M E T A B L E

TIME: 10:00 AM TO 1:00 PM

COURSE	26-06-2019 WEDNESDAY	01-07-2019 MONDAY	03-07-2019 WEDNESDAY	05-07-2019 FRIDAY	08-07-2019 MONDAY
Structural Engineering -20	-	Theory of Plates	-	-	-
VLSI system Design/VLSI Design-57	-	-	-	Verilog Hardware Description Language	-
Communicatin Systems -61	3G Networks	-	Engineering Research Methodology	-	Optical Communications and Networks

DATE: 17-05-2019

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CONTROLLER OF EXAMINATIONS

NOTE:

(I). ANY OMISSIONS OR CLASHES IN THIS TIME TABLE MAY PLEASE BE INFORMED TO THE CONTROLLER OF EXAMINATIONS IMMEDIATELY

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M.TECH-I SEMESTER -R17 REGULATION- SUPPLEMENTARY EXAMINATIONS JUNE 2019

T I M E T A B L E

TIME: 10:00 AM TO 1:00 PM

Course	25-06-2019 TUESDAY	27-06-2019 THURSDAY	29-06-2019 SATURDAY	02-07-2019 TUESDAY	04-07-2019 THURSDAY	06-07-2019 SATURDAY	09-07-2019 TUESDAY	11-07-2019 THURSDAY
CADCAM-04	Elective-II Computer Aided Process Planning	Elective-II Automation in Manufacturing	Advanced FEM	Elective-I Mechanical Behavior of Materials Stress Analysis and Vibration Additive Manufacturing Technologies	Computer Aided Manufacturing	OEI Electrical Installation And Safety Fundamentals Of Cyber Security Computer Oriented Numerical Methods Renewable Energy Systems Principles Of Electronic Communications	Elective-II Performance Modeling and Analysis of Manufacturing Systems	Advanced CAD
COMPUTER SCIENCE-05	Advanced Algorithms	Software Engineering	Elective-I Network Security and Cryptography	Elective-I Internet of Things Mobile Application Development Graph Theory	Elective-Ii Parallel and Distributed Algorithms Embedded Systems Game Theory	OEI Principles Of Electronic Communications Optimization Techniques And Applications Electrical Installation And Safety Computer Oriented Numerical Methods Renewable Energy Systems	Elective-II Software Architecture and Design Patterns	Computer Networking

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Course	25-06-2019 TUESDAY	27-06-2019 THURSDAY	29-06-2019 SATURDAY	02-07-2019 TUESDAY	04-07-2019 THURSDAY	06-07-2019 SATURDAY	09-07-2019 TUESDAY	11-07-2019 THURSDAY
DIGITAL SYSTEMS AND COMPUTER ELECTRONICS -06		Advanced Digital System Design	Elective-I Advanced Data Communications / Digital Signal Processors and Architectures / Image and Video Processing	Real Time Operating Systems	Elective-II TCP/IP Internetworking / Wireless Communications and Networks	O E-I Fundamentals Of Cyber Security / Optimization Techniques And Applications / Electrical Installation And Safety / Computer Oriented Numerical Methods / Renewable Energy Systems	Elective-II CPLD and FPGA Architectures and Applications	CMOS VLSI Design
ELECTRICAL POWER SYSTEMS -07	Advanced Power System Analysis	Advanced Power System Protection	Modern Control Theory	Elective-I Advanced Digital Signal Processing		OE-I Fundamentals Of Cyber Security / Principles Of Electronic Communications / Computer Oriented Numerical Methods / Optimization Techniques And Applications	Elective-II Distribution Automation / Microcontrollers and applications / Power Quality	Elective-I EHV AC Transmission / High Voltage Engineering

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ENVIRONMENTAL ENGINEERING - 11	Environmental Chemistry and Microbiology	Advanced Water Supply Systems	Elective-I Environment and Ecology Environmental Hydrology Watershed Management	Elective-II Environmental Impact Assessment	Elective-II Environmental Sanitation Environmental System Engineering	OE-I Renewable Energy Systems Electrical Installation And Safety Optimization Techniques And Applications Principles Of Electronic Communications Fundamentals Of Cyber Security	Advanced Waste Water Treatment	
GEOTECHNICAL ENGINEERING - 12	Advanced Soil Mechanics	Elective-II Rock Mechanics and Engineering Physical Modeling in Geotechnical Engineering. Soil - Structure Interaction	Soil Dynamics and Machine Foundations		Advanced Foundation Engineering	OE-I Renewable Energy Systems Electrical Installation And Safety Optimization Techniques And Applications Principles Of Electronic Communications Fundamentals Of Cyber Security		Elective-I Earth & Rockfill Dams 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 Design Optimization / Mechanics of Metal Forming	ELECTIVE-II Advanced Mechanics of Composite Materials / Additive Manufacturing Technologies	OE-I Fundamentals Of Cyber Security / Principles Of Electronic Communications / Electrical Installation And Safety / Computer Oriented Numerical Methods / Renewable Energy Systems	ELECTIVE-II Design for Manufacturing & Assembly	Computer Aided Geometric Modeling for Design
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 Production & Operations Management / Quality Engineering in Manufacturing Systems	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 Precision Engineering

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Course	25-06-2019 TUESDAY	27-06-2019 THURSDAY	29-06-2019 SATURDAY	02-07-2019 TUESDAY	04-07-2019 THURSDAY	06-07-2019 SATURDAY	09-07-2019 TUESDAY	11-07-2019 THURSDAY
STRUCTURAL ENGINEERING -20		Structural Dynamics	Advanced Structural Analysis	ELECTIVE-II Plastic Analysis & Design Advanced Reinforced Concrete Design Soil Dynamic & Foundation Engineering	ELECTIVE-I Advanced Foundation Engineering Tall Buildings Advanced Concrete Technology	OE-I Renewable Energy Systems Electrical Installation And Safety Optimizatin Techniques And Applications Principles Of Electronic Communications Fundamentals Of Cyber Security		Theory of Elasticity
THERMAL ENGINEERING -21	Advanced Thermodynamics	Advanced Heat Transfer	Advanced Fluid Mechanics	ELECTIVE-I Fuels &Combustion Advanced Optimization Techniques & Applications	ELECTIVE-II Thermal Measurements & Process Control Advanced Materials for Thermal Systems Gas Dynamics	OE-I Computer Oriented Numerical Methods Renewable Energy Systems Electrical Installation And Safety Principles Of Electronic Communications Fundamentals Of Cyber Security		ELECTIVE-I Renewable Energy Sources

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M.TECH-I SEMESTER -R17 REGULATION- SUPPLEMENTARY EXAMINATIONS JUNE 2019
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Course	25-06-2019 TUESDAY	27-06-2019 THURSDAY	29-06-2019 SATURDAY	02-07-2019 TUESDAY	04-07-2019 THURSDAY	06-07-2019 SATURDAY	09-07-2019 TUESDAY	11-07-2019 THURSDAY
TRANSPORTATION ENGINEERING -22	Traffic Engineering and Management	Urban Transportation Planning and Management	Pavement Material Characterization	ELECTIVE-I Engineering of Ground Transportation System Management	Elective-ii Advanced Concrete Technology Highway Geometric Design	OE-I Renewable Energy Systems Electrical Installation And Safety Optimization Techniques And Applications Principles Of Electronic Communications Fundamentals Of Cyber Security	ELECTIVE-II Road Safety Engineering	ELECTIVE-I Bridge Engineering
SOFTWARE ENGINEERING -25	Advanced Algorithms	ELECTIVE-II Big Data Analytics	ELECTIVE-I Cryptography and Network Security	ELECTIVE-I Cloud Computing Database Internals Internet Technologies and Services	Software Development Methodologies	OE-I Computer Oriented Numerical Methods Renewable Energy Systems Electrical Installation And Safety Optimization Techniques And Applications Principles Of Electronic Communications	ELECTIVE-II Web Mining Machine Learning Software Metrics and Quality Assurance	Software Requirements and Estimation

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MICROWAVE AND RADAR ENGINEERING. -30	Advanced Electromagnetic Theory	ELECTIVE-II Detection and Estimation Theory	ELECTIVE-II Microwave Networks Optical Communications and Networks	ELECTIVE-I Radio Navigational Aids Advanced Digital Signal Processing	Radar Systems Engineering	OE-I Computer Oriented Numerical Methods Renewable Energy Systems Electrical Installation And Safety Optimization Techniques And Applications Fundamentals Of Cyber Security	Microwave Components and Measurements	ELECTIVE-I Satellite Communications
ADVANCED MANUFACTURING SYSTEMS - 33	Theory of Metal Cutting	Automation in Manufacturing	ELECTIVE-I Product Data Management Special Manufacturing Process	ELECTIVE-II Rapid Prototyping Technologies	Computer Aided Manufacturing	OE-I Computer Oriented Numerical Methods Renewable Energy Systems Electrical Installation And Safety Principles Of Electronic Communications Fundamentals Of Cyber Security	ELECTIVE-I Design For Manufacturing and Assembly	ELECTIVE-II Precision Engineering Advanced Mechatronics

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COMPUTER AND COMMUNICATION ENGINEERING -36	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 Computer Oriented Numerical Methods / Renewable Energy Systems / Electrical Installation And Safety / Optimization Techniques And Applications / Fundamentals Of Cyber Security	ELECTIVE-II Cognitive Radio Networks	Wireless Communications and Networks
CONTROL ENGINEERING -37			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 Computer Oriented Numerical Methods / Optimization Techniques And Applications / Principles Of Electronic Communica Tions / Fundamentals Of Cyber Security	Digital Control Systems	Estimation of Signals and Systems.

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

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Course	25-06-2019 TUESDAY	27-06-2019 THURSDAY	29-06-2019 SATURDAY	02-07-2019 TUESDAY	04-07-2019 THURSDAY	06-07-2019 SATURDAY	09-07-2019 TUESDAY	11-07-2019 THURSDAY
POWER AND INDUSTRIAL DRIVES-42	Machine Modeling and Analysis	Power Electronic Devices and Converters	Modern Control Theory	ELECTIVE-I Programmable Logic Controllers and Applications Special Machines High Frequency Magnetic Components	ELECTIVE-II Advanced Digital Signal Processing Electric Traction systems	OE-I Computer Oriented Numerical Methods Optimization Techniques And Applications Principles Of Electronic Communications Fundamentals Of Cyber Security	ELECTIVE-II Digital Control Systems	
POWER ELECTRONICS-43	Machine Modeling and Analysis	Power Electronic Devices and Converters	Modern Control Theory	ELECTIVE-I Programmable Logic Controllers and Applications Special Machines High Frequency Magnetic Components	ELECTIVE-II Advanced Digital Signal Processing Electric Traction systems	OE-I Computer Oriented Numerical Methods Optimization Techniques And Applications Principles Of Electronic Communications Fundamentals Of Cyber Security	ELECTIVE-II Digital Control Systems	

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Course	25-06-2019 TUESDAY	27-06-2019 THURSDAY	29-06-2019 SATURDAY	02-07-2019 TUESDAY	04-07-2019 THURSDAY	06-07-2019 SATURDAY	09-07-2019 TUESDAY	11-07-2019 THURSDAY
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 / Renewable Energy Systems / Electrical Installation And Safety / Optimization Techniques And Applications / Fundamentals Of Cyber Security	Adaptive Signal Processing	Transform Techniques
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 / Object Oriented Programming / Statistical Methods	OE-I Renewable Energy Systems / Electrical Installation And Safety / 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 Advanced Digital Signal Processing		OE-I Computer Oriented Numerical Methods Optimization Techniques And Applications Principles Of Electronic Communications Fundamentals Of Cyber Security	ELECTIVE-II Power Quality Microcontrollers and applications Distribution Automation	ELECTIVE-I High Voltage Engineering EHV AC Transmission
DESIGN FOR MANUFACTURING-52	Advanced Mechanics of Solids	ELECTIVE-II Theory of Elasticity & Plasticity Advanced Computer Aided Design	ELECTIVE-I Special Manufacturing Processes	ELECTIVE-I Advanced Finite Element Analysis MEMS & Micro Systems : Design & Manufacture	Elective-ii Quality Engineering in Manufacturing	OE-I Computer Oriented Numerical Methods Renewable Energy Systems Electrical Installation And Safety Principles Of Electronic Communica Tions Fundamentals Of Cyber Security	Design for Manufacturing & Assembly	Material Technology

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

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

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

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

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

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TIME: 10:00 AM TO 1:00 PM

Course	25-06-2019 TUESDAY	27-06-2019 THURSDAY	29-06-2019 SATURDAY	02-07-2019 TUESDAY	04-07-2019 THURSDAY	06-07-2019 SATURDAY	09-07-2019 TUESDAY	11-07-2019 THURSDAY
CONTROL SYSTEMS – 75			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 Computer Oriented Numerical Methods / Optimization Techniques And Applications / Principles Of Electronic Communications / Fundamentals Of Cyber Security	Digital Control Systems	Estimation of Signals and Systems.
EMBEDDED SYSTEMS & VLSI DESIGN-77	ELECTIVE-I Digital System Design / Hardware Software Co-Design	ELECTIVE-II CMOS Digital Integrated Circuit Design / VLSI DSP Architectures	VLSI Technology	ELECTIVE-I Advanced Computer Architecture	Embedded System Design	OE-I Computer Oriented Numerical Methods / Renewable Energy Systems / Electrical Installation And Safety / Optimization Techniques And Applications / Fundamentals Of Cyber Security	ELECTIVE-II CPLD and FPGA Architectures and Applications	CMOS Analog Integrated Circuit Design

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E X A M I N A T I O N B R A N C H
M.TECH-I SEMESTER -R17 REGULATION- SUPPLEMENTARY EXAMINATIONS JUNE 2019
T I M E T A B L E

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

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

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HEATING VENTILATION & AIR CONDITIONING -91	Advanced Thermodynamics	Refrigeration	Air Conditioning	ELECTIVE-I Renewable Energy Sources / Computational Fluid Dynamics	ELECTIVE-II Equipment Design for Thermal Systems / Alternative Refrigerants / Cold Storage Technology& Systems	OE-I Computer Oriented Numerical Methods / Renewable Energy Systems / Electrical Installation And Safety / Principles Of Electronic Communications / Fundamentals Of Cyber Security	ELECTIVE-I Cryogenic Engineering	
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 Mechanics of Metal Forming / Advanced Mechanics of Composite Materials	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 Theory of Elasticity

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

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

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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

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M.TECH-I SEMESTER -R13 REGULATION-SUPPLEMENTARY EXAMINATIONS JUNE-2019
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T I M E : 10:00 AM TO 1:00 PM

COURSE	25-06-2019 TUESDAY	27-06-2019 THURSDAY	29-06-2019 SATURDAY	02-07-2019 TUESDAY	04-07-2019 THURSDAY	06-07-2019 SATURDAY	09-07-2019 TUESDAY	11-07-2019 THURSDAY
BIOTECHNOLOGY~03	MICROBIAL ENGINEERING	MOLECULAR BIOLOGY & VIROLOGY		PREPARATORY CORE COURSE-I/II GENERAL AND INDUSTRIAL MICROBIOLOGY / PROCESS ENGINEERING PRINCIPALS	PREPARATORY CORE COURSE-I/II BIOCHEMISTRY AND METOBOLIC REGULATION	ELECTIVE I/II BIOCATALYSIS AND ENZYME MECHANISMS / BIOSTATICS & COMPUTER APPLICATION	ELECTIVE I/II IMMUNOLOGY BIOCHEMICAL & BIOPHYSICAL TECHNICS / ENZYME ENGINEERING & TECHNOLOGY	PREPARATORY CORE COURSE-I/II BASIC ENGINEERING MATHEMATICS
CAD/CAM~04	ELECTIVE I ADVANCED MECHANICS OF SOLIDS		PRECISION ENGINEERING	ADVANCED FINITE ELEMENT ANALYSIS	ELECTIVE I NUMERICAL METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS / ADVANCED MECHATRONICS	ELECTIVE II ADVANCED MECHANICS OF COMPOSITE MATERIALS / TOTAL QUALITY MANAGEMENT / STRESS ANALYSIS AND VIBRATIONS	DESIGN FOR MANUFACTURING AND ASSEMBLY	ADVANCED CAD
COMPUTER SCIENCE~05	ADVANCED DATA STRUCTURES AND ALGORITHMS	COMPUTER SYSTEM DESIGN	SOFTWARE PROCESS AND PROJECT MANAGEMENT	ADVANCED OPERATING SYSTEMS	ELECTIVE I NATURAL LANGUAGE PROCESSING / PATTERN RECOGNITION	ELECTIVE II SOFTWARE ARCHITECTURE AND DESIGN PATTERNS / PARALLEL AND DISTRIBUTED ALGORITHMS / MACHINE LEARNING		DISTRIBUTED SYSTEMS
DIGITAL SYSTEM & COMPUTER ELECTRONICS~06	DIGITAL SYSTEM DESIGN	VLSI TECHNOLOGY AND DESIGN	ADVANCED DATA COMMUNICATIONS	MICROCONTROLLERS FOR EMBEDDED SYSTEM DESIGN	ELECTIVE I IMAGE AND VIDEO PROCESSING / EMBEDDED SYSTEMS DESIGN	ELECTIVE II INTERNETWORKING / CMOS DIGITAL INTEGRATED CIRCUIT DESIGN / SOFT COMPUTING TECHNIQUES		ELECTIVE I CMOS ANALOG INTEGRATED CIRCUIT DESIGN

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M.TECH-I SEMESTER -R13 REGULATION-SUPPLEMENTARY EXAMINATIONS JUNE-2019
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ELECTRICAL POWER SYSTEM~07	ADVANCED POWER SYSTEM ANALYSIS	ADVANCED POWER SYSTEM PROTECTION	RENEWABLE ENERGY SYSTEMS	MODERN CONTROL THEORY	ELECTIVE I MICROCONTROLLERS AND APPLICATIONS	ELECTIVE II HVDC TRANSMISSION	ELECTIVE II DISTRIBUTION AUTOMATION POWER QUALITY	ELECTIVE I EHV AC TRANSMISSION HIGH VOLTAGE ENGINEERING
ENERGY SYSTEMS~10	APPLIED THERMODYNAMICS	ADVANCED HEAT AND MASS TRANSFER	INDUSTRIAL INSTRUMENTATION AND CONTROL ENGINEERING	RENEWABLE ENERGY TECHNOLOGIES	ELECTIVE I HYDROGEN AND FUEL CELLS THERMAL POWER PLANTS COMPUTATIONAL METHODS ENERGY POLICY ECOLOGY AND ENVIRONMENT	ELECTIVE II NUCLEAR ENERGY DESIGN OF EXPERIMENTS POLLUTION CONTROL IN POWER PLANTS I.C ENGINES & ALTERNATE FUELS		
ENVIRONMENTAL ENGINEERING~11	COMPUTER PROGRAMMING AND NUMERICAL METHODS	ENVIRONMENTAL CHEMISTRY AND MICROBIOLOGY		WASTE TREATMENT SYSTEMS	ELECTIVE I WATERSHED MANAGEMENT ENVIRONMENTAL HYDROLOGY ENVIRONMENT AND ECOLOGY	ELECTIVE II ENVIRONMENTAL SANITATION CLIMATOLOGY ENVIRONMENTAL SYSTEM ENGINEERING	ADVANCED WATER SUPPLY SYSTEMS	
GEOTECHNICAL ENGINEERING~12	ADVANCED SOIL MECHANICS	ADVANCED FOUNDATION ENGINEERING	SOIL DYNAMICS AND MACHINE FOUNDATIONS	ENGINEERING OF GROUND	ELECTIVE I GEO-ENVIRONMENTAL ENGINEERING GROUNDWATER HYDROLOGY NUMERICAL METHODS FOR GEOTECHNICAL ENGINEERS	ELECTIVE II FINITE ELEMENT METHODS FOR GEOTECHNICAL ENGINEERS GROUNDWATER CONTAMINATION AND REMEDIATION ENVIRONMENT AND ECOLOGY		

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INDUSTRIAL ENGINEERING AND MANAGEMENT~13	STATISTICAL QUALITY CONTROL	INDUSTRIAL ENGINEERING PRACTICES	MATERIALS MANAGEMENT	ADVANCED OPTIMIZATIONS TECHNIQUES AND APPLICATION	ELECTIVE I FINANCIAL MANAGEMENT MANAGEMENT THEORY AND PRACTICE	ELECTIVE II PRODUCT DATA MANAGEMENT MANAGEMENT INFORMATION SYSTEMS		
MACHINE DESIGN~15	ADVANCED MECHANICS OF SOLIDS	ELECTIVE II ADVANCED COMPUTER AIDED DESIGN	FATIGUE CREEP & FRACTURE MECHANICS	ADVANCED FINITE ELEMENT ANALYSIS	ELECTIVE I APPLIED TRIOBOLOGY THEORY OF ELASTICITY & PLASTICITY GEAR ENGINEERING	ELECTIVE II DATA BASE MANAGEMENT SYSTEM CONCURRENT ENGINEERING ADVANCED MECHANICS OF COMPOSITE MATERIALS	ADVANCED MECHANICAL ENGINEERING DESIGN	COMPUTATIONAL METHODS IN ENGINEERING
PRODUCTION ENGINEERING~16	THEORY OF METAL CUTTING		ADVANCED CASTING AND WELDING TECHNOLOGIES	COMPOSITE MATERIALS	ELECTIVE I MACHINE TOOL DESIGN ADVANCED MANUFACTURING PROCESSES	ELECTIVE II COMPUTER AIDED MANUFACTURING QUALITY ENGINEERING IN MANUFACTURING PRODUCTION & OPERATIONS MANAGEMENT	ADVANCED METAL FORMING	ADVANCED CAD
STRUCTURAL ENGINEERING~20	THEORY OF ELASTICITY AND PLASTICITY		THEORY AND ANALYSIS OF PLATES	ELECTIVE II COMPOSITE MATERIALS	ELECTIVE I CONCRETE TECHNOLOGY OPTIMIZATION TECHNIQUES IN STRUCTURAL ENGINEERING EXPERIMENTAL STRESS ANALYSIS	ELECTIVE II ADVANCED STRUCTURAL ANALYSIS SOIL DYNAMICS AND FOUNDATION ENGINEERING	COMPUTER ORIENTED NUMERICAL METHODS	ADVANCED REINFORCED CONCRETE DESIGN

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THERMAL ENGINEERING~21	ADVANCED THERMODYNAMICS	ADVANCED HEAT & MASS TRANSFER	ADVANCED FLUID MECHANICS	ADVANCED OPTIMIZATION TECHNIQUES & APPLICATIONS	ELECTIVE I CRYOGENICS ENGINEERING / SOLAR ENERGY TECHNOLOGY	ELECTIVE II NON-CONVENTIONAL ENERGY SOURCES / MATERIAL SCIENCE	ELECTIVE I TURBO-MACHINES	ELECTIVE II ADVANCED I.C ENGINES.
TRANSPORTATION ENGINEERING~22	TRAFFIC ENGINEERING AND MANAGEMANT	TRANSPORTATION INFRASTRUCTURE DESIGN	URBAN TRANSPORTATION POLICY PLANNING FOR SUSTAINABLE DEVELOPMENT	PAVENT MATERIAL CHARACTERIZATION	ELECTIVE I/II APPLIED STATISTICS ENGINEERING OF GROUND	ELECTIVE I/II TRANSPORTATION SYSTEM MANAGEMENT REMOTE SENSING AND GPS FOR TRANSPORTATION ENGINEERING	ELECTIVE I/II ADVANCED CONCRETE TECHNOLOGY	ELECTIVE I/II PROJECT MANAGEMENT
SOFTWARE ENGINEERING~25	ADVANCED DATA STRUCTURES AND ALGORITHMS	SOFTWARE DEVELOPMENT METHODOLOGIES	ELECTIVE II OBJECT ORIENTED MODELING	WEB TECHNOLOGIES AND SERVICES	ELECTIVE I SECURE SOFTWARE ENGINEERING CYBER SECURITY AND CYBER LAWS INFORMATION SECURITY AND AUDIT	ELECTIVE II ADVANCED DATA MINING PARALLEL ALGORITHMS		SOFTWARE REQUIREMENTS AND ESTIMATION
MICRO WAVE AND RADAR ENGINEERING~30	ADVANCED ELECTROMAGNETIC THEORY	MICROWAVE ANTENNA THEORY AND DESIGN	RADAR SYSTEM ENGINEERING	MICROWAVE COMPONENTS AND MEASUREMENTS	ELECTIVE I ADVANCED DIGITAL SIGNAL PROCESSING RADIO NAVIGATIONAL AIDS	ELECTIVE II RANDOM PROCESSES AND TIME SERIES ANALYSIS MICROWAVE INTEGRATED CIRCUITS EMI OR EMC		ELECTIVE I SATELLITE COMMUNICATIONS
ADVANCED MANUFACTURING SYSTEMS~33	AUTOMATION IN MANUFACTURING	COMPUTER AIDED MANUFACTURING	PRECISION ENGINEERING		ELECTIVE I TOTAL QUALITY MANAGEMENT SPECIAL MANUFACTURING PROCESS PRODUCT DATA MANAGEMENT	ELECTIVE II THEORY OF ELASTICITY & PLASTICITY ADVANCED MECHATRONICS	DESIGN FOR MANUFACTURING AND ASSEMBLY	ELECTIVE II ADVANCED CAD

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COMPUTER AND COMMUNICATION ENGINEERING~36	IMAGE AND VIDEO PROCESSING	INTERNETWORKING	ADVANCED DATA COMMUNICATIONS	ADVANCED DIGITAL SIGNAL PROCESSING	ELECTIVE I — DETECTION AND ESTIMATION THEORY / MICROCONTROLLERS FOR EMBEDDED SYSTEMS DESIGN / ADVANCED OPERATING SYSTEMS	ELECTIVE II — VOICE OVER INTERNET PROTOCOL / WIRELESS LANS AND PANS / SATELLITE COMMUNICATIONS		
CONTROL ENGINEERING~37	ADVANCED CONTROL SYSTEMS	DIGITAL CONTROL SYSTEMS	DSP PROCESSOR ARCHITECTURE AND APPLICATIONS	STATE AND PARAMETER ESTIMATION THEORY	ELECTIVE I — PROGRAMMABLE LOGIC CONTROLLERS AND THEIR APPLICATIONS / PROCESS MODELING AND SIMULATION / ADVANCED INSTRUMENTATION SYSTEMS	ELECTIVE II — ROBOTICS AND CONTROL / EMBEDDED SYSTEMS	ELECTIVE II — ADVANCED MICROPROCESSORS	
DIGITAL ELECTRONICS AND COMMUNICATION SYSTEMS/ENGG~38	DIGITAL SYSTEM DESIGN	VLSI TECHNOLOGY AND DESIGN	ADVANCED DATA COMMUNICATIONS	ADVANCED DIGITAL SIGNAL PROCESSING	ELECTIVE I — MICROCONTROLLERS FOR EMBEDDED SYSTEM DESIGN / DETECTION AND ESTIMATION THEORY / RADIO NAVIGATIONAL AIDS	ELECTIVE II — INTERNETWORKING	ELECTIVE II — EMBEDDED REAL TIME OPERATING SYSTEMS	ELECTIVE II — ADVANCED COMPUTER ARCHITECTURE
INFORMATION TECHNOLOGY~40	ADVANCED DATA STRUCTURES AND ALGORITHMS	DATABASE ENGINEERING	ADVANCED COMPUTER NETWORKS	INFORMATION RETRIEVAL SYSTEMS	ELECTIVE I — PARALLEL AND DISTRIBUTED ALGORITHMS / MACHINE LEARNING	ELECTIVE II — BIO METRICS / BUSINESS INTELLIGENCE & BIG DATA / SOFT COMPUTING	ELECTIVE I — SOFTWARE ARCHITECTURE AND DESIGN PATTERNS	

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POWER AND INDUSTRIAL DRIVES~42	MACHINE MODELING AND ANALYSIS	POWER ELECTRONIC CONVERTERS 1	POWER ELECTRONIC CONTROL OF DC DRIVES	MODERN CONTROL THEORY	ELECTIVE I EMBEDDED SYSTEMS OPERATIONS RESEARCH	ELECTIVE II PROGRAMMABLE LOGIC CONTROLLERS AND THEIR APPLICATIONS SPECIAL MACHINES	ELECTIVE II MICROCONTROLLERS AND APPLICATIONS	ELECTIVE I HVDC TRANSMISSION
POWER ELECTRONICS~43	MACHINE MODELING AND ANALYSIS	POWER ELECTRONIC CONVERTERS 1	POWER ELECTRONIC CONTROL OF DC DRIVES	MODERN CONTROL THEORY	ELECTIVE I EMBEDDED SYSTEMS OPERATIONS RESEARCH	ELECTIVE II PROGRAMMABLE LOGIC CONTROLLERS AND THEIR APPLICATIONS SPECIAL MACHINES	ELECTIVE II MICROCONTROLLERS AND APPLICATIONS	ELECTIVE I HVDC TRANSMISSION
SYSTEMS & SIGNAL PROCESSING~45		RANDOM PROCESSES AND TIME SERIES ANALYSIS	ELECTIVE II ADVANCED DATA COMMUNICATIONS	ADVANCED DIGITAL SIGNAL PROCESSING	ELECTIVE I VLSI SIGNAL PROCESSING RADAR SIGNAL PROCESSING BIOMEDICAL SIGNAL PROCESSING	ELECTIVE II DIGITAL SYSTEM DESIGN DETECTION AND ESTIMATION THEORY	WIRELESS COMMUNICATIONS AND NETWORKS	TRANSFORM TECHNIQUES
GEO-INFORMATICS & SURVEYING TECHNOLOGY~47	ELEMENTS OF PHOTOGRAMMETRY	DIGITAL IMAGE PROCESSING--I	INTRODUCTION TO REMOTE SENSING	FUNDAMENTALS OF GIS	SURVEYING	ELECTIVE I WEB TECHNOLOGIES INTERNET GIS		
ELECTRICAL POWER ENGINEERING~49	ADVANCED POWER SYSTEM ANALYSIS	ADVANCED POWER SYSTEM PROTECTION	RENEWABLE ENERGY SYSTEMS	MODERN CONTROL THEORY	ELECTIVE I EHV AC TRANSMISSION MICROCONTROLLERS AND APPLICATIONS	ELECTIVE II DISTRIBUTION AUTOMATION HVDC TRANSMISSION	ELECTIVE II POWER QUALITY	ELECTIVE I HIGH VOLTAGE ENGINEERING

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CHEMICAL ENGINEERING~51	ADVANCED TRANSPORT PHENOMENA	ADVANCED CHEMICAL REACTION ENGINEERING	OPTIMIZATION TECHNIQUES IN CHEMICAL ENGINEERING		ELECTIVE I PETROLEUM REFINERY ENGINEERING / ELECTROCHEMICAL ENGINEERING / COMPUTATIONAL FLUID DYNAMICS	ELECTIVE II CORROSION ENGINEERING / POLYMER TECHNOLOGY	ADVANCED CHEMICAL ENGINEERING THERMODYNAMICS	APPLIED NUMERICAL METHODS
DESIGN FOR MANUFACTURING~52	ADVANCED MECHANICS OF SOLIDS	MATERIALS TECHNOLOGY	PRECISION ENGINEERING		ELECTIVE I SPECIAL MANUFACTURING PROCESS / QUALITY ENGINEERING IN MANUFACTURING / PRODUCT DATA MANAGEMENT	ELECTIVE II ADVANCED MECHATRONICS / THEORY OF ELASTICITY & PLASTICITY	DESIGN FOR MANUFACTURING AND ASSEMBLY	ELECTIVE II ADVANCED CAD (PROJECT BASED)
POWER SYSTEM CONTROL AND AUTOMATION~53	ADVANCED POWER SYSTEM ANALYSIS	ADVANCED POWER SYSTEM PROTECTION	RENEWABLE ENERGY SYSTEMS	MODERN CONTROL THEORY	ELECTIVE I MICROCONTROLLERS AND APPLICATIONS / EHV AC TRANSMISSION	ELECTIVE II DISTRIBUTION AUTOMATION / HVDC TRANSMISSION POWER ELECTRONIC CONTROL OF DC DRIVES	ELECTIVE II POWER QUALITY	ELECTIVE I / HIGH VOLTAGE ENGINEERING
POWER ELECTRONICS AND ELECTRIC DRIVES~54	MACHINE MODELING AND ANALYSIS	POWER ELECTRONIC CONVERTERS 1	POWER ELECTRONIC CONTROL OF DC DRIVES	MODERN CONTROL THEORY	ELECTIVE I EMBEDDED SYSTEMS / OPERATIONS RESEARCH	ELECTIVE II SPECIAL MACHINES / PROGRAMMABLE LOGIC CONTROLLERS AND THEIR APPLICATIONS	ELECTIVE II / MICROCONTROLLERS AND APPLICATIONS	ELECTIVE I / HVDC TRANSMISSION

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M.TECH-I SEMESTER -R13 REGULATION-SUPPLEMENTARY EXAMINATIONS JUNE-2019

T I M E T A B L E

T I M E : 10:00 AM TO 1:00 PM

COURSE	25-06-2019 TUESDAY	27-06-2019 THURSDAY	29-06-2019 SATURDAY	02-07-2019 TUESDAY	04-07-2019 THURSDAY	06-07-2019 SATURDAY	09-07-2019 TUESDAY	11-07-2019 THURSDAY
EMBEDDED SYSTEMS~55	EMBEDDED SYSTEM DESIGN		EMBEDDED C	MICROCONTROLLERS FOR EMBEDDED SYSTEM DESIGN	ELECTIVE I VLSI TECHNOLOGY AND DESIGN	ELECTIVE II SOFT COMPUTING TECHNIQUES ADVANCED OPERATING SYSTEMS DIGITAL SYSTEM DESIGN	EMBEDDED REAL TIME OPERATING SYSTEMS	ELECTIVE I ADVANCED COMPUTER ARCHITECTURE EMBEDDED COMPUTING
POWER SYSTEM (HIGH VOLTAGE)~56	GENERATION AND MEASUREMENT OF HIGH VOLTAGES	DIELECTRIC AND INSULATION ENGINEERING	FLEXIBILITY AC TRANSMISSION SYSTEMS(FACTS)	HVDC TRANSMISSION	ELECTIVE I GAS INSULATED SYSTEMS (GIS) VOLTAGE STABILITY AI TECHNIQUES	ELECTIVE II MICROCONTROLLERS AND APPLICATIONS REACTIVE POWER COMPENSATION AND MANAGEMENT TRANSPORTATION SYSTEM MANAGEMENT	ELECTIVE II BREAKDOWN PHENOMENON IN INSULATION	
VLSI SYSTEM DESIGN / VLSI DESIGN~57	ELECTIVE I DIGITAL SYSTEM DESIGN	CMOS ANALOG INTEGRATED CIRCUIT DESIGN	VLSI TECHNOLOGY AND DESIGN	CMOS DIGITAL INTEGRATED CIRCUIT DESIGN	ELECTIVE I HARDWARE SOFTWARE CO-DESIGN DEVICE MODELING	ELECTIVE II ADVANCE OPERATING SYSTEMS MICRO CONTROLLERS FOR EMBEDDED SYSTEM DESIGN	CPLD AND FPGA ARCHITECTURES AND APPLICATIONS	ELECTIVE II ADVANCED COMPUTER ARCHITECTURE
COMPUTER SCIENCE ENGINEERING~58	ADVANCED DATA STRUCTURES AND ALGORITHMS	COMPUTER SYSTEM DESIGN	ELECTIVE II MACHINE LEARNING	ADVANCED OPERATING SYSTEMS	ELECTIVE I NATURAL LANGUAGE PROCESSING PATTERN RECOGNITION SOFTWARE PROCESS AND PROJECT MANAGEMENT	ELECTIVE II PARALLEL AND DISTRIBUTED ALGORITHMS	ELECTIVE I SOFTWARE ARCHITECTURE AND DESIGN PATTERNS	DISTRIBUTED SYSTEMS

DATE: 17/05/2019

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COMMUNICATION SYSTEMS~61	IMAGE AND VIDEO PROCESSING	WIRELESS COMMUNICATIONS AND NETWORKS	ADVANCED DATA COMMUNICATIONS	ADVANCED DIGITAL SIGNAL PROCESSING	ELECTIVE I INTERNETWORKING RF CIRCUIT DESIGN DETECTION AND ESTIMATION THEORY	ELECTIVE II VOICE OVER INTERNET PROTOCOL SATELLITE COMMUNICATIONS RADAR SIGNAL PROCESSING		
WEB TECHNOLOGIES~62	ADVANCED DATA STRUCTURES AND ALGORITHMS	ADVANCED JAVA & WEB PROGRAMMING	ADVANCED DATABASES	GRID AND CLOUD COMPUTING	ELECTIVE I SOFTWARE PROCESS AND PROJECT MANAGEMENT DATABASE SECURITY ADVANCED NETWORK PROGRAMMING	ELECTIVE II WEB DATA MINING E-COMMERCE SOFTWARE QUALITY ASSURANCE AND TESTING		
IMAGE PROCESSING~63	ADVANCED DATA STRUCTURES AND ALGORITHMS	DIGITAL SIGNAL PROCESSING	ADVANCED COMPUTER GRAPHICS	DIGITAL IMAGE PROCESSING	ELECTIVE I MACHINE LEARNING SPEECH PROCESSING PATTERN RECOGNITION	ELECTIVE II WIRELESS NETWORKS & MOBILE COMPUTING VIDEO PROCESSING EMBEDDED SYSTEMS		
POWER ENGINEERING AND ENERGY SYSTEMS~64	ADVANCED POWER SYSTEM ANALYSIS	ADVANCED POWER SYSTEM PROTECTION	RENEWABLE ENERGY SYSTEMS	MODERN CONTROL THEORY	ELECTIVE I EHV AC TRANSMISSION MICROCONTROLLERS AND APPLICATIONS	ELECTIVE II HVDC TRANSMISSION DISTRIBUTION AUTOMATION	ELECTIVE II POWER QUALITY	ELECTIVE I HIGH VOLTAGE ENGINEERING
WIRELESS AND MOBILE COMMUNICATION~65	IMAGE AND VIDEO PROCESSING	TCPORIP AND ATM NETWORKS	ADVANCED DATA COMMUNICATIONS	ADVANCED DIGITAL SIGNAL PROCESSING	ELECTIVE I RF CIRCUIT DESIGN DETECTION AND ESTIMATION THEORY	ELECTIVE II SPREAD SPECTRUM COMMUNICATIONS VOICE OVER IP	ELECTIVE I RANDOM PROCESSES AND TIME SERIES ANALYSIS	ELECTIVE II SATELLITE COMMUNICATIONS

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NANO TECHNOLOGY~66	NANO BIOTECHNOLOGY MATERIALS AND DEVICES	NUMERICAL METHODS AND ADVANCED COMPUTING TECHNIQUES	PROPERTIES OF NANO STRUCTURES	STRUCTURE BONDING AND QUANTUM MECHANICS	SYNTHESIS OF NANOMATERIALS	SCIENCE AND TECHNOLOGY OF THIN-FILMS		
VLSI AND EMBEDDED SYSTEMS~68	ELECTIVE I DIGITAL SYSTEM DESIGN	CMOS ANALOG INTEGRATED CIRCUIT DESIGN	VLSI TECHNOLOGY AND DESIGN	MICROCONTROLLERS FOR EMBEDDED SYSTEM DESIGN	ELECTIVE I SOFT COMPUTING TECHNIQUES HARDWARE SOFTWARE CO-DESIGN	ELECTIVE II ADVANCED OPERATING SYSTEMS NETWORK SECURITY AND CRYPTOGRAPHY CMOS DIGITAL INTEGRATED CIRCUIT DESIGN	CPLD AND FPGA ARCHITECTURES AND APPLICATIONS	
NEURAL NETWORKS ~69	ARTIFICIAL INTELLIGENCE	COMPUTER SYSTEMS DESIGN	IMAGE PROCESSING	NEURAL NETWORKS	ELECTIVE I SPEECH PROCESSING PERVASIVE COMPUTING MACHINE LEARNING	ELECTIVE II CLOUD COMPUTING STORAGE AREA NETWORKS WIRELESS NETWORKS & MOBILE COMPUTING		
ELECTRONICS AND COMMUNICATION ENGINEERING~70	DIGITAL SYSTEM DESIGN	VLSI TECHNOLOGY AND DESIGN	ADVANCED DATA COMMUNICATIONS	ADVANCED DIGITAL SIGNAL PROCESSING	ELECTIVE I RADIO NAVIGATIONAL AIDS MICROCONTROLLERS FOR EMBEDDED SYSTEM DESIGN DETECTION AND ESTIMATION THEORY	ELECTIVE II INTERNETWORKING	ELECTIVE II EMBEDDED REAL TIME OPERATING SYSTEMS	ELECTIVE II ADVANCED COMPUTER ARCHITECTURE
PARALLEL COMPUTING~74	ADVANCED DATA STRUCTURES AND ALGORITHMS	PARALLEL ALGORITHMS	DISTRIBUTED SYSTEMS	PARALLEL COMPUTER ARCHITECTURE	ELECTIVE I SEMANTIC WEB AND SOCIAL NETWORKS WEB SERVICES JAVA & WEB TECHNOLOGIES	ELECTIVE II NEURAL NETWORKS INFORMATION RETRIEVAL SYSTEMS WIRELESS NETWORKS AND MOBILE COMPUTING		

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CONTROL SYSTEMS~75	ADVANCED CONTROL SYSTEMS	DIGITAL CONTROL SYSTEMS	DSP PROCESSOR ARCHITECTURE AND APPLICATIONS	STATE AND PARAMETER ESTIMATION THEORY	ELECTIVE I PROCESS MODELING AND SIMULATION / PROGRAMMABLE LOGIC CONTROLLERS AND THEIR APPLICATIONS / ADVANCED INSTRUMENTATION SYSTEMS	ELECTIVE II ROBOTICS AND CONTROL / EMBEDDED SYSTEMS	ELECTIVE II ADVANCED MICROPROCESSORS	
AEROSPACE ENGINEERING~76	AIR TRANSPORTATION SYSTEMS	CONTINUUM MECHANICS	ENGINEERING ANALYSIS OF FLIGHT VEHICLES	MATHEMITICAL MODELING	ELECTIVE I AIR BREATHING PROPULSION / FLIGHT VEHICLES STRUCTURES / AIRCRAFT SYSTEMS // FUNDAMENTALS OF AEROSPACE ENGINEERING	ELECTIVE II ROTORCRAFT AERODYNAMICS / AIRLINES OPERATIONS AND SCHEDULING / FLIGHT NAVIGATION AND SURVEILLANCE SYSTEMS / MODELING AND SIMULATION OF FLUID FLOWS / COMPUTATIONAL STRUCTURAL ANALYSIS	AERODYNAMICS OF FLIGHT VEHICLES	
EMBEDDED SYSTEMS & VLSI DESIGN~77	ELECTIVE I // DIGITAL SYSTEM DESIGN	CMOS ANALOG INTEGRATED CIRCUIT DESIGN	VLSI TECHNOLOGY AND DESIGN	MICROCONTROLLERS FOR EMBEDDED SYSTEM DESIGN	ELECTIVE I SOFT COMPUTING TECHNIQUES // HARDWARE SOFTWARE CO-DESIGN	ELECTIVE II ADVANCED OPERATING SYSTEMS / NETWORK SECURITY AND CRYPTOGRAPHY / CMOS DIGITAL INTEGRATED CIRCUIT DESIGN	CPLD AND FPGA ARCHITECTURES AND APPLICATIONS	

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COMPUTER NETWORKS AND INFORMATION SECURITY~78	ADVANCED DATA STRUCTURES AND ALGORITHMS	PRINCIPLES OF INFORMATION SECURITY	ADVANCED COMPUTER NETWORKS	WEB TECHNOLOGIES AND SERVICES	ELECTIVE I ETHICAL HACKING / INFORMATION RETRIEVAL SYSTEMS	ELECTIVE II DATA WAREHOUSING AND MINING / NETWORK PROGRAMMING / EMBEDDED SYSTEMS		ELECTIVE I / DISTRIBUTED SYSTEMS
MECHATRONICS~80	AUTOMATION IN MANUFACTURING			INDUSTRIAL ELECTRICAL & ELECTRONICS	ELECTIVE I ELECTRO-OPTIC SYSTEMS / ADVANCED CNC TECHNOLOGY / PRECISION ENGINEERING	ELECTIVE II CONTROL SYSTEMS / INSTRUMENTATION & SENSOR TECHNOLOGY / POWER ELECTRONICS & DRIVES	APPLIED INDUSTRIAL HYDRAULICS	APPLIED INDUSTRIAL PNEUMATICS
INFRASTRUCTURE ENGG~81	COMPUTER ORIENTED NUMERICAL METHODS	CONSTRUCTION MANAGEMENT I	GEOTECHNICS FOR INFRASTRUCTURE	WATER RESOURCES SYSTEMS PLANNING AND MANAGEMENT	ELECTIVE I/II ADVANCED CONCRETE TECHNOLOGY / OPTIMIZATION TECHNIQUES	ELECTIVE I/II ADVANCED STRUCTURAL ANALYSIS / OFFSHORE GEOTECHNICS	ELECTIVE I/II STRUCTURAL DYNAMICS / GEO ENVIRONMENTAL ENGINEERING	
COMPUTER NETWORKS~82	NETWORK PROGRAMMING	DISTRIBUTED COMPUTING	ADVANCED COMPUTER NETWORKS	NETWORK SECURITY	ELECTIVE I JAVA & WEB TECHNOLOGIES / HIGH SPEED NETWORKS / TCP OR IP PROTOCOL SUITE	ELECTIVE II DISTRIBUTED DATABASES / DATA WAREHOUSING AND MINING / EMBEDDED SYSTEMS		
REAL TIME SYSTEMS~84	REAL TIME SYSTEMS AND DESIGN	MICRO CONTROLLERS	EMBEDDED C	ELECTIVE I CLOUD COMPUTING	ELECTIVE I DIGITAL SYSTEMS DESIGN / DISTRIBUTED OPERATING SYSTEMS	ELECTIVE II PARALLEL ALGORITHMS / FAULT TOLERANT SYSTEMS / ADVANCED COMPUTER NETWORKS		ADVANCED COMPUTER ARCHITECTURE

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HIGH VOLTAGE ENGINEERING~85	**GENERATION AND MEASUREMENT OF HIGH VOLTAGES**	**DIELECTRIC AND INSULATION ENGINEERING**	**FLEXIBILITY AC TRANSMISSION SYSTEMS (FACTS)**	**HVDC TRANSMISSION**	**ELECTIVE I** **VOLTAGE STABILITY** **GAS INSULATED SYSTEMS (GIS)** **AI TECHNIQUES**	**ELECTIVE II** **BREAKDOWN PHENOMENON IN INSULATION** **REACTIVE POWER COMPENSATION AND MANAGEMENT** **MICROCONTROLLERS AND APPLICATIONS**		
HIGHWAY ENGINEERING~87	**HIGHWAY INFRASTRUCTURE ENGINEERING**	**PAVEMENT MATERIAL CHARACTERIZATION**	**TRAFFIC ENGINEERING**	**URBAN TRANSPORTATION PLANNING**	**ELECTIVE I** **PROJECT MANAGEMENT** **APPLIED STATISTICS**	**ELECTIVE II** **REMOTE SENSING & GLOBAL POSITIONING SYSTEMS** **ENGINEERING OF GROUND** **CONCRETE TECHNOLOGY**		**ELECTIVE I** **BRIDGE ENGINEERING**
ELECTRONICS & INSTRUMENTATION~88		**DESIGN AND ANALYSIS OF SIGNAL CONDITIONING CIRCUITS**	**REAL TIME AND EMBEDDED SYSTEMS**	**TRANSDUCER TECHNOLOGY**	**ELECTIVE I** **OPTIMAL CONTROL SYSTEMS** **ARTIFICIAL INTELLIGENCE** **ADVANCED PROCESS CONTROL INSTRUMENTATION**	**ELECTIVE II** **WIRELESS SENSOR NETWORKS** **IMAGE & VIDEO PROCESSING** **BIOMEDICAL SIGNAL & IMAGE PROCESSING**	**CPLD & FPGA ARCHITECTURES & APPLICATIONS**	
AUTOMATION (MECHANICAL)~89	**AUTOMATION IN MANUFACTURING**	**MODERN CONTROL ENGINEERING**	**PRECISION ENGINEERING**	**SIMULATION MODELING & ANALYSIS OF MANUFACTURING SYSTEMS**	**ELECTIVE I** **ARTIFICIAL INTELLIGENCE & EXPERT SYSTEMS** **CONCURRENT ENGINEERING & PRODUCT LIFE CYCLE MANAGEMENT** **MICRO ELECTRO MECHANICAL SYSTEMS**	**ELECTIVE II** **MATERIALS TECHNOLOGY** **MECHATRONICS** **EXPERIMENTAL TECHNIQUES & DATA ANALYSIS**		

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HEATING VENTILATION & AIR CONDITIONING~91	ELECTIVE I ADVANCED THERMODYNAMICS	HEATING SYSTEM	REFRIGERATION	VENTILATION SYSTEM	ELECTIVE I FOOD PROCESSING TECHNOLOGY NON CONVENTIONAL ENERGY SOURCES	ELECTIVE II COMPUTATIONAL FLUID DYNAMICS MAINTENANCE MANAGEMENT MATERIAL SCIENCE	AIR CONDITIONING 1	
SYSTEMS AND SIGNAL PROCESSING~93	RANDOM PROCESSES AND TIME SERIES ANALYSIS		ELECTIVE-II ADVANCED DATA COMMUNICATIONS	ADVANCED DIGITAL SIGNAL PROCESSING	ELECTIVE I VLSI SIGNAL PROCESSING BIOMEDICAL SIGNAL PROCESSING RADAR SIGNAL PROCESSING	ELECTIVE II DETECTION AND ESTIMATION THEORY DIGITAL SYSTEM DESIGN	WIRELESS COMMUNICATIONS AND NETWORKS	TRANSFORM TECHNIQUES
ENGINEERING DESIGN~95	ADVANCED MECHANICS OF SOLIDS	ADVANCED MECHANICS OF MACHINERY	GEOMETRIC MODELING	MECHANICAL BEHAVIOUR OF ENGG. MATERIALS	ELECTIVE I MODERN CONTROL THEORY COMPUTER SIMULATIONS OF MACHINES ADVANCED OPTIMIZATION TECHNIQUES AND APPLICATIONS VIBRATION ANALYSIS OF MECHANICAL SYSTEMS	ELECTIVE II THEORY OF ELASTICITY AND PLASTICITY DESIGN FOR PROCESS AND PRODUCT DEVELOPMENT EXPERIMENTAL STRESS ANALYSIS INSTRUMENTATION AND CONTROL SYSTEMS COMPUTER AIDED MANUFACTURING	ELECTIVE-I ADVANCED METAL FORMING	

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AERONAUTICAL ENGINEERING~97	AIR TRANSPORTATION SYSTEMS	CONTINUUM MECHANICS	ENGINEERING ANALYSIS OF FLIGHT VEHICLES	MATHEMATICAL MODELING	ELECTIVE I AIRCRAFT SYSTEMS AIR - BREATHING PROPULSION FLIGHT VEHICLE STRUCTURES FUNDAMENTALS OF AEROSPACE ENGINEERING	ELECTIVE II COMPUTATIONAL STRUCTURAL ANALYSIS AIRLINES OPERATIONS AND SCHEDULING FLIGHT NAVIGATION AND SURVEILLANCE SYSTEMS ROTORCRAFT AERODYNAMICS MODELING AND SIMULATION OF FLUID FLOWS	ELECTIVE-I AERODYNAMICS OF FLIGHT VEHICLES	
POWERPLANT ENGINEERING AND ENERGY MANAGEMENT~99	BASIC POWER PLANT ENGINEERING	ENERGY SCENARIOS	COMPUTATIONAL FLUID DYNAMICS	POWER GENERATION METHODS	THERMAL AND NUCLEAR POWER PLANTS	ELECTIVE I ADVANCED TESTING METHODS MATERIAL MANAGEMENT ENERGY OPTIMIZATION TECHNIQUES POWER PLANT ERECTION COMMISSIONING AND OPERATION		
ELECTRONICS DESIGN TECHNOLOGY~A0	CPLD AND FPGA ARCHITECTURES AND APPLICATIONS	VLSI TECHNOLOGY AND DESIGN	CMOS ANALOG INTEGRATED CIRCUIT DESIGN	MICROCONTROLLERS FOR EMBEDDED SYSTEM DESIGN	ELECTIVE I HARDWARE SOFTWARE CO-DESIGN DIGITAL SYSTEM DESIGN SOFT COMPUTING TECHNIQUES	ELECTIVE II ADVANCED OPERATING SYSTEMS NETWORK SECURITY AND CRYPTOGRAPHY CMOS DIGITAL INTEGRATED CIRCUIT DESIGN		

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CONSTRUCTION MANAGEMENT~A1	CONSTRUCTION PROJECT PLANNING AND ADMINISTRATION	MANAGEMENT OF QUALITY AND SAFETY IN CONSTRUCTION		QUANTITAVE METHODS IN CONSTRUCTION MANAGEMENT	ELECTIVE I/II INFRASTRUCTURE VALUATION HUMAN RESOURCES DEVELOPMENT FOR CONSTRUCTION	ELECTIVE I/II EARTHQUAKE RESISTANT DESIGN OF STRUCTURES REMOTE SENSING AND GIS FOR URBAN PLANNING AND MANAGEMENT	ELECTIVE I/II OPTIMIZATION TECHNIQUES FORMWORK AND SCAFFOLDING DESIGN REHABILITATION AND RETROFITTING OF STRUCTURES	CONSTRUCTION ENGINEERING PRACTICE
CYBER FORENSIC INFORMATION SECURITY~A2		BIOMETRIC SYSTEMS AND BIOMETRIC IMAGE PROCESSING	MATHEMATICAL FOUNDATION FOR CYBER SECURITY	NETWORK AND WIRELESS SECURITY	ELECTIVE I DISTRIBUTED AND CLOUD COMPUTING INFORMATION STORAGE MANAGEMENT INFORMATION SYSTEMS AUDIT	ELECTIVE II WEB SECURITY DISTRIBUTED SYSTEMS IT SECURITY METRICS	APPLIED CRYPTOGRAPHY	
CYBER SECURITY~A3		BIOMETRIC SYSTEMS AND BIOMETRIC IMAGE PROCESSING	MATHEMATICAL FOUNDATION FOR CYBER SECURITY	NETWORK AND WIRELESS SECURITY	ELECTIVE I INFORMATION SYSTEMS AUDIT INFORMATION STORAGE MANAGEMENT DISTRIBUTED AND CLOUD COMPUTING	ELECTIVE II WEB SECURITY IT SECURITY METRICS DISTRIBUTED SYSTEMS	APPLIED CRYPTOGRAPHY	
BIOMEDICAL SIGNAL PROCESSING INSTRUMENTATION~A4	BIO SENSORS	MEDICAL IMAGE PROCESSING	REAL TIME SIGNAL PROCESSING	VIRTUAL INSTRUMENTATION	ELECTIVE I PHYSIOLOGY FOR ENGINEERS ELECTRONIC SYSTEM DESIGN	ELECTIVE II CLINICAL INSTRUMENTATION NEURAL NETWORKS AND FUZZY LOGIC3	ELECTIVE I BIOINFORMATICS AND APPLICATIONS	ELECTIVE II BIOSTATISTICS

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VLSI DESIGN~A5	CPLD AND FPGA ARCHITECTURES AND APPLICATIONS	VLSI TECHNOLOGY AND DESIGN	CMOS ANALOG INTEGRATED CIRCUIT DESIGN	CMOS DIGITAL INTEGRATED CIRCUIT DESIGN	**ELECTIVE I** DIGITAL SYSTEM DESIGN / DEVICE MODELING / HARDWARE SOFTWARE CO-DESIGN	**ELECTIVE II** MICRO CONTROLLERS FOR EMBEDDED SYSTEM DESIGN / ADVANCE OPERATING SYSTEMS		**ELECTIVE II** ADVANCED COMPUTER ARCHITECTURE

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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**

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BIOTECHNOLOGY~03	MICROBIAL ENGINEERING	MOLECULAR BIOLOGY AND GENETIC ENGINEERING	ENZYME ENGINEERING AND TECHNOLOGY	ELECTIVE-C1 INDUSTRIAL BIOTECHNOLOGY / BIOCHEMICAL AND BIOPHYSICAL TECHNIQUES	ELECTIVE-C2 BIOCHEMISTRY AND METABOLIC REGULATION / PROCESS ENGINEERING PRINCIPLES / TISSUE ENGINEERING AND STEM CELL TECHNOLOGY	OPEN ELECTIVE BIOBUSINESS MANAGEMENT / ENVIRONMENTAL BIOTECHNOLOGY		ELECTIVE-C1 BASIC ENGINEERING MATHEMATICS
CAD/CAM~04	ELECTIVE-C2 COMPUTER AIDED PROCESS PLANNING	COMPUTER AIDED MANUFACTURING	ADVANCED FEM	ELECTIVE-C1 STRESS ANALYSIS AND VIBRATION / RAPID PROTOTYPING TECHNOLOGIES / MECHANICAL BEHAVIOUR OF MATERIALS	OPEN ELECTIVE NUMERICAL METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS / PRODUCTION AND OPERATIONS MANAGEMENT	ELECTIVE-C2 AUTOMATION IN MANUFACTURING	ELECTIVE-C2 PERFORMANCE MODELING AND ANALYSIS OF MANUFACTURING SYSTEMS	ADVANCED CAD

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COMPUTER SCIENCE~05	DATA STRUCTURES AND ALGORITHMS	DATABASE INTERNALS		ELECTIVE-C1 INTERNET OF THINGS CLOUD COMPUTING ANDROID APPLICATION DEVELOPMENT NETWORK SECURITY	ELECTIVE-C2 PARALLEL AND DISTRIBUTED ALGORITHMS MACHINE LEARNING EMBEDDED SYSTEMS	OPEN ELECTIVE R-PROGRAMMING MOBILE COMPUTING LINUX PROGRAMMING JAVA PROGRAMMING INTELLECTUAL PROPERTY RIGHTS INFORMATION SECURITY AND AUDIT E – COMMERCE COMPUTER FORENSICS BIOMETRICS BIG DATA ANALYTICS ALGORITHMICS ANDROID APPLICATION DEVELOPMENT MOBILE APPLICATION SECURITY OPEN STACK CLOUD COMPUTING OPERATIONS RESEARCH WEB USABILITY STORAGE AREA NETWORKS SOFTWARE ENGINEERING SOCIAL MEDIA INTELLIGENCE SCRIPTING LANGUAGES	ELECTIVE-C2 SOFTWARE ARCHITECTURE AND DESIGN PATTERNS	DISTRIBUTED SYSTEMS

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M.TECH-I SEMESTER -R15 REGULATION- SUPPLEMENTARY EXAMINATIONS JUNE-2019
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						PRINCIPLES OF INFORMATION SECURITY / BIOINFORMATICS		
DIGITAL SYSTEM & COMPUTER ELECTRONICS~06	DIGITAL SYSTEM DESIGN	OPEN ELECTIVE SOFT COMPUTING TECHNIQUES / CODING THEORY AND TECHNIQUES / NANO ELECTRONICS	ADVANCED DATA COMMUNICATIONS	ELECTIVE-C1 EMBEDDED SYSTEM DESIGN / HARDWARE SOFTWARE CO-DESIGN	VLSI TECHNOLOGY AND DESIGN	ELECTIVE-C2 DESIGN OF FAULT TOLERANT SYSTEMS / CMOS DIGITAL INTEGRATED CIRCUIT DESIGN / INTERNETWORKING		ELECTIVE-C1 IMAGE AND VIDEO PROCESSING
ELECTRICAL POWER SYSTEM~07	ADVANCED POWER SYSTEM ANALYSIS	ADVANCED POWER SYSTEM PROTECTION	MODERN CONTROL THEORY	ELECTIVE-C1 ADVANCED DIGITAL SIGNAL PROCESSING		OPEN ELECTIVE HVDC TRANSMISSION / RENEWABLE ENERGY SYSTEMS / DIGITAL CONTROL SYSTEMS / OPTIMIZATION TECHNIQUES / EMBEDDED SYSTEMS / ANALYSIS OF POWER CONVERTERS	ELECTIVE-C2 DISTRIBUTION AUTOMATION / POWER QUALITY / MICROCONTROLLERS AND APPLICATIONS	ELECTIVE-C1 EHV AC TRANSMISSION / HIGH VOLTAGE ENGINEERING
ENERGY SYSTEMS~10	APPLIED THERMODYNAMICS	RENEWABLE ENERGY TECHNOLOGIES	APPLIED HEAT TRANSFER	ELECTIVE-C1 COMPUTATIONAL FLUID DYNAMICS / DESIGN AND OPTIMIZATION OF ENERGY SYSTEMS / INSTRUMENTATION & CONTROL ENGINEERING	ELECTIVE-C2 ELECTRICAL ENERGY MANAGEMENT & CONSERVATION / APPLIED FLUID MECHANICS / THERMAL ENERGY MANAGEMENT & CONSERVATION	OPEN ELECTIVE BIO CONVERSION & PROCESSING OF WASTE / ENERGY POLICY ECOLOGY AND ENVIRONMENT		

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ENVIRONMENTAL ENGINEERING~11	ENVIRONMENTAL CHEMISTRY AND MICROBIOLOGY		ELECTIVE-C1 ENVIRONMENTAL HYDROLOGY / ENVIRONMENT AND ECOLOGY / WATERSHED MANAGEMENT	ADVANCED WASTE WATER TREATMENT	ELECTIVE-C2 ENVIRONMENTAL SYSTEM ENGINEERING / SOLID WASTE MANAGEMENT / ENVIRONMENTAL SANITATION	OPEN ELECTIVE COMPUTER PROGRAMMING AND NUMERICAL METHODS / CLIMATOLOGY / OPTIMIZATION TECHNIQUES	ADVANCED WATER SUPPLY SYSTEMS	
GEOTECHNICAL ENGINEERING~12	ADVANCED SOIL MECHANICS	ELECTIVE-C2 ROCK MECHANICS AND ENGINEERING / GEO ENVIRONMENTAL ENGINEERING / PHYSICAL MODELING IN GEOTECHNICAL ENGINEERING.	GROUND IMPROVEMENT TECHNIQUES.	OPEN ELECTIVE COMPUTER ORIENTED NUMERICAL METHODS / ENVIRONMENT AND ECOLOGY / REMOTE SENSING & GEOGRAPHICAL INFORMATION SYSTEMS	ADVANCED FOUNDATION ENGINEERING			ELECTIVE-C1 EARTH & ROCKFILL DAMS / OPTIMIZATION TECHNIQUES / SOIL DYNAMICS AND MACHINE FOUNDATIONS
MACHINE DESIGN~15	ADVANCED MECHANICS OF SOLIDS	ADVANCED MECHANICS OF MACHINERY	ELECTIVE-C1 VIBRATION ANALYSIS OF MECHANICAL SYSTEMS	ELECTIVE-C1 COMPUTER SIMULATION OF MACHINES / DESIGN OPTIMIZATION	ELECTIVE-C2 MECHANICS OF METAL FORMING / ADVANCED MECHANICS OF COMPOSITE MATERIALS	OPEN ELECTIVE GEOMETRIC MODELING / MECHATRONICS	ELECTIVE-II DESIGN FOR MANUFACTURING & ASSEMBLY	THEORY OF ELASTICITY AND PLASTICITY

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PRODUCTION ENGINEERING~16	THEORY OF METAL CUTTING	ELECTIVE-C1 PRECISION ENGINEERING MACHINE TOOL DESIGN AUTOMATION IN MANUFACTURING	ADVANCED CASTING & WELDING TECHNOLOGIES		ELECTIVE-C2 QUALITY ENGINEERING IN MANUFACTURING SYSTEMS PRODUCTION AND OPERATIONS MANAGEMENT DESIGN FOR MANUFACTURING & ASSEMBLY	OPEN ELECTIVE INDUSTRIAL ROBOTICS	ADVANCED METAL FORMING	OPEN ELECTIVE INTELLIGENT MANUFACTURING SYSTEMS
STRUCTURAL ENGINEERING~20	THEORY OF ELASTICITY AND PLASTICITY	THEORY OF PLATES	ADVANCED STRUCTURAL ANALYSIS	ELECTIVE-C2 PLASTIC ANALYSIS & DESIGN	ELECTIVE-C1 TALL BUILDINGS ADVANCED FOUNDATION ENGINEERING ADVANCED CONCRETE TECHNOLOGY	OPEN ELECTIVE EXPERIMENTAL STRESS ANALYSIS RELIABILITY ENGINEERING	OPEN ELECTIVE COMPUTER ORIENTED NUMERICAL METHODS	E-2 ADVANCED R.C.DESIGN ==BRIDGE ENGINEERING==
THERMAL ENGINEERING~21	ADVANCED THERMODYNAMICS	ADVANCED I.C. ENGINES	ADVANCED FLUID MECHANICS	OPEN ELECTIVE NANOFLUIDS ADVANCED OPTIMIZATION TECHNIQUES & APPLICATIONS	ELECTIVE-C2 THERMAL AND NUCLEAR POWER PLANTS THERMAL MEASUREMENTS & PROCESS CONTROLS ADVANCED MATERIALS FOR THERMAL SYSTEMS	ELECTIVE-C1 REFRIGERATION & AIR CONDITIONING	ELECTIVE-C1 TURBO MACHINES	NON CONVENTIONAL ENERGY SOURCES

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TRANSPORTATION ENGINEERING~22	TRAFFIC ENGINEERING AND MANAGEMENT	URBAN TRANSPORTATION PLANNING AND MANAGEMENT	PAVEMENT MATERIAL CHARACTERIZATION	ELECTIVE-C1 TRANSPORTATION SYSTEM MANAGEMENT ENGINEERING OF GROUND	ELECTIVE-C2 TRANSPORTATION INFRASTRUCTURE DESIGN ADVANCED CONCRETE TECHNOLOGY	OPEN ELECTIVE APPLIED STATISTICS PROJECT MANAGEMENT REMOTE SENSING AND GIS	ELECTIVE-C2 ROAD SAFETY ENGINEERING	ELECTIVE-C1 BRIDGE ENGINEERING

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SOFTWARE ENGINEERING~25	DATA STRUCTURES AND ALGORITHMS	ELECTIVE-C2 BIG DATA ANALYTICS	ELECTIVE-C2 OBJECT ORIENTED MODELLING INFORMATION THEORY AND CODING	ELECTIVE-C1 CLOUD COMPUTING INTERNET TECHNOLOGIES AND SERVICES COMPONENT BASED SOFTWARE ENGINEERING DATABASE INTERNALS	SOFTWARE DEVELOPMENT METHODOLOGIES	OPEN ELECTIVE BIG DATA ANALYTICS OPERATIONS RESEARCH PRINCIPLES OF INFORMATION SECURITY SCRIPTING LANGUAGES SOCIAL MEDIA INTELLIGENCE SOFTWARE ENGINEERING STORAGE AREA NETWORKS WEB USABILITY OPEN STACK CLOUD COMPUTING BIOMETRICS COMPUTER FORENSICS BIOINFORMATICS R-PROGRAMMING ALGORITHMICS ANDROID APPLICATION DEVELOPMENT E – COMMERCE INFORMATION SECURITY AND AUDIT INTELLECTUAL PROPERTY RIGHTS JAVA PROGRAMMING LINUX PROGRAMMING	ELECTIVE-C2 WEB MINING	SOFTWARE REQUIREMENTS AND ESTIMATION

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						MOBILE COMPUTING / MOBILE APPLICATION SECURITY / EMBEDDED SYSTEMS		
MICRO WAVE AND RADAR ENGINEERING~30	ADVANCED ELECTROMAGNETIC THEORY	ELECTIVE-C2 RANDOM PROCESSES AND TIME SERIES ANALYSIS / EMI/EMC / MICROWAVE INTEGRATED CIRCUITS	OPEN ELECTIVE ADVANCED DATA COMMUNICATIONS / MICROWAVE ANTENNA THEORY AND DESIGN / OPTICAL NETWORKS	ELECTIVE-C1 ADVANCED DIGITAL SIGNAL PROCESSING / RADIO NAVIGATIONAL AIDS	RADAR SYSTEMS ENGINEERING		MICROWAVE COMPONENTS AND MEASUREMENTS	ELECTIVE-C1 SATELLITE COMMUNICATIONS
ADVANCED MANUFACTURING SYSTEMS~33	THEORY OF METAL CUTTING	COMPUTER AIDED MANUFACTURING	OPEN ELECTIVE NEURAL NETWORKS & FUZZY LOGIC / APPLIED TRIBOLOGY	ELECTIVE-C2 RAPID PROTOTYPING TECHNOLOGIES / PRECISION ENGINEERING	ELECTIVE-C1 PRODUCT DATA MANAGEMENT / SPECIAL MANUFACTURING PROCESSES	AUTOMATION IN MANUFACTURING	ELECTIVE-I DESIGN FOR MANUFACTURING & ASSEMBLY	ELECTIVE-C2 ADVANCED MECHATRONICS
COMPUTER AND COMMUNICATION ENGINEERING~36	INTERNETWORKING	CODING THEORY AND TECHNIQUES	ADVANCED DATA COMMUNICATIONS	OPEN ELECTIVE ADVANCED DIGITAL SIGNAL PROCESSING / EMBEDDED SYSTEM DESIGN	ELECTIVE-C2 WIRELESS MIMO COMMUNICATIONS / VOICE OVER INTERNET PROTOCOL / RF CIRCUIT DESIGN	ELECTIVE-C1 QUEUEING THEORY AND APPLICATIONS / SPREAD SPECTRUM COMMUNICATION	ELECTIVE-C1 DETECTION AND ESTIMATION THEORY	OPEN ELECTIVE IMAGE AND VIDEO PROCESSING

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CONTROL ENGINEERING~37	MODERN CONTROL THEORY	DIGITAL CONTROL SYSTEMS		ELECTIVE-C1 PROCESS DYNAMICS AND CONTROL PROCESS MODELING AND SIMULATION PROGRAMMABLE LOGIC CONTROLLERS AND THEIR APPLICATIONS	ELECTIVE-C2 EMBEDDED SYSTEMS DSP PROCESSOR ARCHITECTURE AND APPLICATIONS	OPEN ELECTIVE ANALYSIS OF POWER CONVERTERS OPTIMIZATION TECHNIQUES DIGITAL CONTROL SYSTEMS RENEWABLE ENERGY SYSTEMS HVDC TRANSMISSION EMBEDDED SYSTEMS	E2 ADVANCED MICROPROCESSORS	ESTIMATION OF SIGNALS AND SYSTEMS.
DIGITAL ELECTRONICS AND COMMUNICATION SYSTEMS/ENGG~38	DIGITAL SYSTEM DESIGN	VLSI TECHNOLOGY AND DESIGN	ADVANCED DATA COMMUNICATIONS	ELECTIVE-C2 REAL TIME OPERATING SYSTEMS INTERNETWORKING	ELECTIVE-C1 ADVANCED DIGITAL SIGNAL PROCESSING EMBEDDED SYSTEM DESIGN	OPEN ELECTIVE ADVANCED COMMUNICATIONS AND NETWORKS SPREAD SPECTRUM COMMUNICATION VIRTUAL INSTRUMENTATION	ELECTIVE-C1 DETECTION AND ESTIMATION THEORY	ELECTIVE-C2 ADVANCED COMPUTERE ARCHITECTURE

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INFORMATION TECHNOLOGY~40	DATA STRUCTURES AND ALGORITHMS	ELECTIVE-C2 BIG DATA ANALYTICS INFORMATION RETRIEVAL SYSTEMS COMPUTER NETWORKING SOFT COMPUTING	ELECTIVE-C1 MULTIMEDIA AND RICH INTERNET APPLICATIONS HUMAN COMPUTER INTERACTION PARALLEL AND DISTRIBUTED ALGORITHMS	INTERNET OF THINGS	DATABASE INTERNALS	OPEN ELECTIVE WEB USABILITY LINUX PROGRAMMING MOBILE COMPUTING MOBILE APPLICATION SECURITY OPEN STACK CLOUD COMPUTING OPERATIONS RESEARCH PRINCIPLES OF INFORMATION SECURITY SCRIPTING LANGUAGES SOCIAL MEDIA INTELLIGENCE SOFTWARE ENGINEERING STORAGE AREA NETWORKS JAVA PROGRAMMING INTELLECTUAL PROPERTY RIGHTS INFORMATION SECURITY AND AUDIT E – COMMERCE R-PROGRAMMING ANDROID APPLICATION DEVELOPMENT ALGORITHMICS BIG DATA	ELECTIVE-C1 SOFTWARE ARCHITECTURE AND DESIGN PATTERNS	

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						ANALYTICS BIOINFORMATICS BIOMETRICS COMPUTER FORENSICS		
POWER AND INDUSTRIAL DRIVES~42	MACHINE MODELING AND ANALYSIS	POWER ELECTRONIC DEVICES AND CIRCUITS	MODERN CONTROL THEORY	ELECTIVE-C1 PROGRAMMABLE LOGIC CONTROLLERS AND THEIR APPLICATIONS SPECIAL MACHINES	ELECTIVE-C2 EMBEDDED SYSTEMS	OPEN ELECTIVE RENEWABLE ENERGY SYSTEMS OPTIMIZATION TECHNIQUES ANALYSIS OF POWER CONVERTERS EMBEDDED SYSTEMS DIGITAL CONTROL SYSTEMS HVDC TRANSMISSION	ELECTIVE-C2 MICROCONTROLLERS AND APPLICATIONS DIGITAL CONTROL SYSTEMS	ELECTIVE-C1 HVDC TRANSMISSION
POWER ELECTRONICS~43	MACHINE MODELING AND ANALYSIS	POWER ELECTRONIC DEVICES AND CIRCUITS	MODERN CONTROL THEORY	ELECTIVE-C1 SPECIAL MACHINES PROGRAMMABLE LOGIC CONTROLLERS AND THEIR APPLICATIONS	ELECTIVE-C2 EMBEDDED SYSTEMS	OPEN ELECTIVE DIGITAL CONTROL SYSTEMS RENEWABLE ENERGY SYSTEMS HVDC TRANSMISSION OPTIMIZATION TECHNIQUES EMBEDDED SYSTEMS ANALYSIS OF POWER CONVERTERS	ELECTIVE-C2 DIGITAL CONTROL SYSTEMS MICROCONTROLLERS AND APPLICATIONS	ELECTIVE-C1 HVDC TRANSMISSION

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SYSTEMS & SIGNAL PROCESSING~ (45/93)	ELECTIVE-C2 DIGITAL SYSTEM DESIGN	RANDOM PROCESSES AND TIME SERIES ANALYSIS	ELECTIVE-C2 ADVANCED DATA COMMUNICATIONS	ADVANCED DIGITAL SIGNAL PROCESSING	OPEN ELECTIVE DEVICE MODELING WIRELESS COMMUNICATIONS AND NETWORKS EMBEDDED SYSTEM DESIGN	ELECTIVE-C1 BIOMEDICAL SIGNAL PROCESSING RADAR SIGNAL PROCESSING VLSI SIGNAL PROCESSING	ELECTIVE-C2 DETECTION AND ESTIMATION THEORY	TRANSFORM TECHNIQUES
GEO-INFORMATICS & SURVEYING TECHNOLOGY~47	SURVEYING	FUNDAMENTALS OF REMOTE SENSING AND GIS	WATERSHED MANAGEMENT	OPEN ELECTIVE ELEMENTS OF PHOTOGRAMMETRY ENVIRONMENTAL IMPACT ASSESSMENT COMPUTER ORIENTED NUMERICAL METHODS	ELECTIVE-C2 GIS APPLICATIONS IN WATER RESOURCES ENGINEERING GNSS SURVEYING AIR POLLUTION AND CONTROL	ELECTIVE-C1 WATER RESOURCES SYSTEMS ANALYSIS DIGITAL IMAGE PROCESSING – I CLIMATOLOGY		
ELECTRICAL POWER ENGINEERING~49	ADVANCED POWER SYSTEM ANALYSIS	ADVANCED POWER SYSTEM PROTECTION	MODERN CONTROL THEORY	ELECTIVE-C1 ADVANCED DIGITAL SIGNAL PROCESSING EHV AC TRANSMISSION	ELECTIVE-C2 MICROCONTROLLERS AND APPLICATIONS DISTRIBUTION AUTOMATION	OPEN ELECTIVE OPTIMIZATION TECHNIQUES EMBEDDED SYSTEMS ANALYSIS OF POWER CONVERTERS RENEWABLE ENERGY SYSTEMS DIGITAL CONTROL SYSTEMS HVDC TRANSMISSION	ELECTIVE-C2 POWER QUALITY	ELECTIVE-C1 HIGH VOLTAGE ENGINEERING

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CHEMICAL ENGINEERING~51	ADVANCED TRANSPORT PHENOMENA		REACTOR DESIGN AND ANALYSIS	ELECTIVE-C1 OPTIMIZATION TECHNIQUES IN CHEMICAL ENGINEERING / PETROLEUM REFINERY ENGINEERING / ELECTROCHEMICAL ENGINEERING	ELECTIVE-C2 CORROSION ENGINEERING / POLYMER TECHNOLOGY	OPEN ELECTIVE ENVIRONMENTAL ENGINEERING RENEWABLE ENERGY RESOURCES MEMBRANE TECHNOLOGY	ADVANCED CHEMICAL ENGINEERING THERMODYNAMICS	APPLIED NUMERICAL METHODS
DESIGN FOR MANUFACTURING~52	ADVANCED MECHANICS OF SOLIDS	ELECTIVE-C2 QUALITY ENGINEERING IN MANUFACTURING THEORY OF ELASTICITY & PLASTICITY ADVANCED COMPUTER AIDED DESIGN	OPEN ELECTIVE ADVANCED MECHATRONICS	ELECTIVE-C1 ADVANCED FINITE ELEMENT ANALYSIS DESIGN AND MANUFACTURING OF MEMS & MICRO SYSTEMS	OPEN ELECTIVE PERFORMANCE MODELING AND ANALYSIS OF MANUFACTURING SYSTEMS	MATERIAL TECHNOLOGY	DESIGN FOR MANUFACTURING & ASSEMBLY	ELECTIVE-C1 SPECIAL MANUFACTURING PROCESSES
POWER SYSTEM CONTROL AND AUTOMATION~53	ADVANCED POWER SYSTEM ANALYSIS	ADVANCED POWER SYSTEM PROTECTION	MODERN CONTROL THEORY	ELECTIVE-C1 EHV AC TRANSMISSION ADVANCED DIGITAL SIGNAL PROCESSING	ELECTIVE-C2 MICROCONTROLLERS AND APPLICATIONS DISTRIBUTION AUTOMATION	OPEN ELECTIVE ANALYSIS OF POWER CONVERTERS RENEWABLE ENERGY SYSTEMS HVDC TRANSMISSION EMBEDDED SYSTEMS OPTIMIZATION TECHNIQUES DIGITAL CONTROL SYSTEMS	ELECTIVE-C2 POWER QUALITY	ELECTIVE-C1 HIGH VOLTAGE ENGINEERING

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POWER ELECTRONICS AND ELECTRIC DRIVES~54	MACHINE MODELING AND ANALYSIS	POWER ELECTRONIC DEVICES AND CIRCUITS	MODERN CONTROL THEORY	ELECTIVE-C1 SPECIAL MACHINES PROGRAMMABLE LOGIC CONTROLLERS AND THEIR APPLICATIONS	ELECTIVE-C2 EMBEDDED SYSTEMS	OPEN ELECTIVE RENEWABLE ENERGY SYSTEMS HVDC TRANSMISSION ANALYSIS OF POWER CONVERTERS DIGITAL CONTROL SYSTEMS EMBEDDED SYSTEMS OPTIMIZATION TECHNIQUES	ELECTIVE-C2 DIGITAL CONTROL SYSTEMS MICROCONTROLLERS AND APPLICATIONS	ELECTIVE-C1 HVDC TRANSMISSION
EMBEDDED SYSTEMS~55	ELECTIVE-C2 DIGITAL SYSTEMDESIGN	OPEN ELECTIVE TCP/IP NETWORKS CODING THEORY AND TECHNIQUES SOFT COMPUTING TECHNIQUES	REAL TIME OPERATING SYSTEMS	ARM ARCHITECTURES	ELECTIVE-C2 DESIGN FOR TESTABILITY	EMBEDDED SYSTEM DESIGN	ELECTIVE-C2 EMBEDDED C	ELECTIVE-C1 ADVANCED COMPUTER ARCHITECTURE EMBEDDED COMPUTING VLSI TECHNOLOGY AND DESIGN
POWER SYSTEM (HIGH VOLTAGE)~56	GENERATION AND MEASUREMENT OF HIGH VOLTAGES	ELECTIVE-C2 ADVANCED POWER SYSTEM PROTECTION REACTIVE POWER COMPENSATION & MANAGEMENT	HVDC TRANSMISSION	ELECTIVE-C1 FLEXIBILITY AC TRANSMISSION SYSTEMS (FACTS) VOLTAGE STABILITY GAS INSULATED SYSTEMS (GIS)	DIELECTRIC AND INSULATION ENGINEERING	OPEN ELECTIVE OPTIMIZATION TECHNIQUES RENEWABLE ENERGY SYSTEMS DIGITAL CONTROL SYSTEMS ANALYSIS OF POWER CONVERTERS HVDC TRANSMISSION EMBEDDED SYSTEMS	ELECTIVE-C2 BREAKDOWN PHENOMENON IN INSULATION	

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VLSI SYSTEM DESIGN / VLSI DESIGN~57	VLSI TECHNOLOGY	CMOS ANALOG INTEGRATED CIRCUIT DESIGN	OPEN ELECTIVE SOFT COMPUTING TECHNIQUES	ELECTIVE-C1 DIGITAL SYSTEM DESIGN — HARDWARE SOFTWARE CO-DESIGN	ELECTIVE-C2 DEVICE MODELING — EMBEDDED SYSTEM DESIGN — ALGORITHMS FOR VLSI DESIGN AUTOMATION	CMOS DIGITAL INTEGRATED CIRCUIT DESIGN	ELECTIVE-C1 CPLD AND FPGA ARCHITECTURES AND APPLICATIONS	OPEN ELECTIVE IMAGE AND VIDEO PROCESSING — SOFTWARE DEFINED RADIO

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COMPUTER SCIENCE ENGINEERING~58	DATA STRUCTURES AND ALGORITHMS	DATABASE INTERNALS	ELECTIVE-C2 MACHINE LEARNING	ELECTIVE-C1 NETWORK SECURITY CLOUD COMPUTING INTERNET OF THINGS ANDROID APPLICATION DEVELOPMENT	ELECTIVE-C2 PARALLEL AND DISTRIBUTED ALGORITHMS EMBEDDED SYSTEMS	OPEN ELECTIVE INFORMATION SECURITY AND AUDIT SOCIAL MEDIA INTELLIGENCE PRINCIPLES OF INFORMATION SECURITY SOFTWARE ENGINEERING E – COMMERCE STORAGE AREA NETWORKS JAVA PROGRAMMING LINUX PROGRAMMING INTELLECTUAL PROPERTY RIGHTS MOBILE APPLICATION SECURITY OPEN STACK CLOUD COMPUTING OPERATIONS RESEARCH SCRIPTING LANGUAGES WEB USABILITY COMPUTER FORENSICS BIOMETRICS BIOINFORMATICS BIG DATA ANALYTICS ALGORITHMICS ANDROID APPLICATION DEVELOPMENT R-PROGRAMMING MOBILE COMPUTING	ELECTIVE-C2 SOFTWARE ARCHITECTURE AND DESIGN PATTERNS	DISTRIBUTED SYSTEMS

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COMMUNICATION SYSTEMS~61	SPREAD SPECTRUM COMMUNICATION	ELECTIVE-C1 DETECTION AND ESTIMATION THEORY	ADVANCED DATA COMMUNICATIONS	ELECTIVE-C1 ADVANCED DIGITAL SIGNAL PROCESSING RF CIRCUIT DESIGN	ELECTIVE- C2 RADAR SIGNAL PROCESSING INTERNETWORKING	OPEN ELECTIVE DEVICE MODELING VOICE OVER INTERNET PROTOCOL EMBEDDED SYSTEM DESIGN	WIRELESS COMMUNICATIONS AND NETWORKS	ELECTIVE-C2 SOFTWARE DEFINED RADIO

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WEB TECHNOLOGIES~62	DATA STRUCTURES AND ALGORITHMS	INTERNET TECHNOLOGIES AND SERVICES	ELECTIVE-C2 NETWORK PROGRAMMING MULTIMEDIA AND RICH INTERNET APPLICATIONS OBJECT ORIENTED MODELLING SCRIPTING LANGUAGES INFORMATION RETRIEVAL SYSTEMS	INTERNET OF THINGS	ELECTIVE-C1 DATABASE INTERNALS WEB SECURITY	OPEN ELECTIVE ALGORITHMICS INTELLECTUAL PROPERTY RIGHTS R-PROGRAMMING SOFTWARE ENGINEERING BIG DATA ANALYTICS BIOINFORMATICS BIOMETRICS ANDROID APPLICATION DEVELOPMENT COMPUTER FORENSICS E – COMMERCE INFORMATION SECURITY AND AUDIT SCRIPTING LANGUAGES SOCIAL MEDIA INTELLIGENCE PRINCIPLES OF INFORMATION SECURITY OPERATIONS RESEARCH OPEN STACK CLOUD COMPUTING STORAGE AREA NETWORKS WEB USABILITY JAVA PROGRAMMING LINUX PROGRAMMING	ELECTIVE-C1 WEB MINING	

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						MOBILE COMPUTING / MOBILE APPLICATION SECURITY		
POWER ENGINEERING AND ENERGY SYSTEMS~64	ADVANCED POWER SYSTEM ANALYSIS	ADVANCED POWER SYSTEM PROTECTION	MODERN CONTROL THEORY	ELECTIVE-C1 EHV AC TRANSMISSION / ADVANCED DIGITAL SIGNAL PROCESSING	ELECTIVE-C2 MICROCONTROLLERS AND APPLICATIONS / DISTRIBUTION AUTOMATION	OPEN ELECTIVE OPTIMIZATION TECHNIQUES / DIGITAL CONTROL SYSTEMS / RENEWABLE ENERGY SYSTEMS / HVDC TRANSMISSION / ANALYSIS OF POWER CONVERTERS / EMBEDDED SYSTEMS	ELECTIVE-C2 POWER QUALITY	ELECTIVE-C1 HIGH VOLTAGE ENGINEERING
WIRELESS AND MOBILE COMMUNICATION~65	SPREAD SPECTRUM COMMUNICATION	CODING THEORY AND TECHNIQUES	ADVANCED DATA COMMUNICATIONS	ELECTIVE-C1 / RF CIRCUIT DESIGN	OPEN ELECTIVE INTERNETWORKING / **ADVANCED DIGITAL SIGNAL PROCESSING**	ELECTIVE-C2 VOICE OVER INTERNET PROTOCOL / GPS APPLICATIONS / QUEUEING THEORY AND APPLICATIONS	ELECTIVE-C1 DETECTION AND ESTIMATION THEORY / RANDOM PROCESSES AND TIME SERIES ANALYSIS	OPEN ELECTIVE IMAGE AND VIDEO PROCESSING
NANO TECHNOLOGY~66	PROPERTIES OF NANO STRUCTURES AND MATERIALS	SYNTHESIS OF NANOMATERIALS	MATERIAL CHARACTERIZATION TECHNIQUES	ELECTIVE-C1 NUMERICAL METHODS AND ADVANCED COMPUTING TECHNIQUES / INTRODUCTION TO NANO SCIENCE AND TECHNOLOGY	ELECTIVE-C2 ENVIRONMENTAL NANOTECHNOLOGY / NANO BIO-TECHNOLOGY MATERIALS AND DEVICES / ---	OPEN ELECTIVE STRUCTURE BONDING AND QUANTUM MECHANICS / ELEMENTS OF SOLID STATE PHYSICS		

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VLSI AND EMBEDDED SYSTEMS~68	VLSI TECHNOLOGY	CMOS ANALOG INTEGRATED CIRCUIT DESIGN	OPEN ELECTIVE ADVANCED DATA COMMUNICATIONS NETWORK SECURITY AND CRYPTOGRAPHY SOFT COMPUTING TECHNIQUES	ELECTIVE-C1 DIGITAL SYSTEM DESIGN HARDWARE SOFTWARE CO-DESIGN	EMBEDDED SYSTEM DESIGN	ELECTIVE-C2 CMOS DIGITAL INTEGRATED CIRCUIT DESIGN VLSI AND DSP ARCHITECTURES	ELECTIVE-C2 CPLD AND FPGA ARCHITECTURES AND APPLICATIONS	ELECTIVE-C1 ADVANCED COMPUTER ARCHITECTURE
ELECTRONICS AND COMMUNICATION ENGINEERING~70	DIGITAL SYSTEM DESIGN	VLSI TECHNOLOGY AND DESIGN	ADVANCED DATA COMMUNICATIONS	ELECTIVE-C2 INTERNETWORKING REAL TIME OPERATING SYSTEMS	ELECTIVE-C1 EMBEDDED SYSTEM DESIGN ADVANCED DIGITAL SIGNAL PROCESSING	OPEN ELECTIVE VIRTUAL INSTRUMENTATION ADVANCED COMMUNICATIONS AND NETWORKS SPREAD SPECTRUM COMMUNICATION	ELECTIVE-C1 DETECTION AND ESTIMATION THEORY	ELECTIVE-C2 ADVANCED COMPUTER ARCHITECTURE
CONTROL SYSTEMS~75	MODERN CONTROL THEORY	DIGITAL CONTROL SYSTEMS		ELECTIVE-C1 PROCESS MODELING AND SIMULATION PROGRAMMABLE LOGIC CONTROLLERS AND THEIR APPLICATIONS PROCESS DYNAMICS AND CONTROL	ELECTIVE-C2 EMBEDDED SYSTEMS DSP PROCESSOR ARCHITECTURE AND APPLICATIONS	OPEN ELECTIVE RENEWABLE ENERGY SYSTEMS HVDC TRANSMISSION ANALYSIS OF POWER CONVERTERS EMBEDDED SYSTEMS DIGITAL CONTROL SYSTEMS OPTIMIZATION TECHNIQUES	ELECTIVE-C2 ADVANCED MICROPROCESSORS	ESTIMATION OF SIGNALS AND SYSTEMS.

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AEROSPACE ENGINEERING~76	**ADVANCED MATHEMATICS IN AEROSPACE ENGINEERING**		**FLIGHT VEHICLE** STRUCTURES	**ELECTIVE-C1** AVIONICS / ADVANCED HEAT TRANSFER / ADDITIVE MANUFACTURING / STRUCTURAL DYNAMICS OF SPACECRAFT / ORBITAL MECHANICS	**ELECTIVE-C2** MODELLING AND SIMULATION OF FLUID FLOWS / AIRPORT OPERATIONS / COMPUTATIONAL STRUCTURAL MECHANICS / AIRCRAFT SYSTEMS / HELICOPTER AERODYNAMICS	**OPEN ELECTIVE** INTRODUCTION TO AEROSPACE ENGINEERING / JETS MISSILES AND ROCKETS	**AERODYNAMICS OF** FLIGHT VEHICLES	
EMBEDDED SYSTEMS & VLSI DESIGN~77	**VLSI TECHNOLOGY**	**CMOS ANALOG INTEGRATED CIRCUIT DESIGN**	**OPEN ELECTIVE** SOFT COMPUTING TECHNIQUES / NETWORK SECURITY AND CRYPTOGRAPHY / ADVANCED DATA COMMUNICATIONS	**ELECTIVE-C1** DIGITAL SYSTEM DESIGN / HARDWARE SOFTWARE CO-DESIGN	**EMBEDDED SYSTEM** DESIGN	**ELECTIVE-C2** VLSI AND DSP ARCHITECTURES / CMOS DIGITAL INTEGRATED CIRCUIT DESIGN	**ELECTIVE-C2** CPLD AND FPGA ARCHITECTURES AND APPLICATIONS	Elective-I ADVANCED COMPUTER ARCHITECTURE

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COMPUTER NETWORKS AND INFORMATION SECURITY~78	DATA STRUCTURES AND ALGORITHMS	COMPUTER NETWORKING	NETWORK PROGRAMMING	ELECTIVE-C1 DATABASE INTERNALS CLOUD COMPUTING TCP/IP PROTOCOL SUITE SOFTWARE DEFINED NETWORKS	ELECTIVE-C2 DISTRIBUTED COMPUTING INTERNET OF THINGS EMBEDDED SYSTEMS	OPEN ELECTIVE MOBILE APPLICATION SECURITY STORAGE AREA NETWORKS SOFTWARE ENGINEERING MOBILE COMPUTING SOCIAL MEDIA INTELLIGENCE SCRIPTING LANGUAGES PRINCIPLES OF INFORMATION SECURITY OPERATIONS RESEARCH WEB USABILITY LINUX PROGRAMMING COMPUTER FORENSICS BIOMETRICS OPEN STACK CLOUD COMPUTING E – COMMERCE BIOINFORMATICS BIG DATA ANALYTICS INTELLECTUAL PROPERTY RIGHTS JAVA PROGRAMMING ALGORITHMICS INFORMATION SECURITY AND		ELECTIVE-C2 DISTRIBUTED SYSTEMS

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						AUDIT ANDROID APPLICATION DEVELOPMENT R-PROGRAMMING		
MECHATRONICS~80	AUTOMATION IN MANUFACTURING		INDUSTRIAL ELECTRICAL & ELECTRONICS	ELECTIVE-C2 CONTROL SYSTEMS INSTRUMENTATION & SENSOR TECHNOLOGY PROGRAMMABLE LOGIC CONTROLLERS AND THEIR APPLICATIONS	ELECTIVE-C1 PHOTO VOLTAIC & SOLAR THERMAL SYSTEMS PRECISION ENGINEERING ADVANCED CNC TECHNOLOGY	OPEN ELECTIVE POWER ELECTRONICS & DRIVES ELECTRO-OPTIC SYSTEMS	OE APPLIED INDUSTRIAL HYDRAULICS	APPLIED INDUSTRIAL PNEUMATICS
INFRASTRUCTURE ENGG~81	WATER RESOURCES SYSTEMS PLANNING AND MANAGEMENT	CONSTRUCTION MANAGEMENT I	GEOTECHNICS FOR INFRASTRUCTURE	OPEN ELECTIVE PORTS & HARBOUR ENGINEERING AIRPORT ENGINEERING GEO ENVIRONMENTAL ENGINEERING	ELECTIVE-C2 CONSTRUCTION TECHNIQUES NEW CONSTRUCTION MATERIALS	ELECTIVE-C1 BUILDING PLANNING AND CONSTRUCTION. COMPUTER ORIENTED NUMERICAL METHODS	ELECTIVE-C1 INTEGRATED WATER RESOURCES MANAGEMENT	E2 ADVANCED REINFORCED CONCRETE DESIGN

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COMPUTER NETWORKS~82	DATA STRUCTURES AND ALGORITHMS	COMPUTER NETWORKING	NETWORK PROGRAMMING	ELECTIVE-C1 TCP/IP PROTOCOL SUITE CLOUD COMPUTING DATABASE INTERNALS SOFTWARE DEFINED NETWORKS	ELECTIVE-C2 DISTRIBUTED COMPUTING INTERNET OF THINGS EMBEDDED SYSTEMS	OPEN ELECTIVE SCRIPTING LANGUAGES SOCIAL MEDIA INTELLIGENCE SOFTWARE ENGINEERING STORAGE AREA NETWORKS WEB USABILITY PRINCIPLES OF INFORMATION SECURITY OPERATIONS RESEARCH OPEN STACK CLOUD COMPUTING R-PROGRAMMING ANDROID APPLICATION DEVELOPMENT ALGORITHMICS BIG DATA ANALYTICS BIOINFORMATICS BIOMETRICS COMPUTER FORENSICS E – COMMERCE JAVA PROGRAMMING MOBILE APPLICATION SECURITY MOBILE COMPUTING LINUX PROGRAMMING		ELECTIVE-C2 DISTRIBUTED SYSTEMS

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						INTELLECTUAL PROPERTY RIGHTS INFORMATION SECURITY AND AUDIT		
HIGH VOLTAGE ENGINEERING~85	GENERATION AND MEASUREMENT OF HIGH VOLTAGES	ELECTIVE-C2 BREAKDOWN PHENOMENON IN INSULATION REACTIVE POWER COMPENSATION & MANAGEMENT ADVANCED POWER SYSTEM PROTECTION	HVDC TRANSMISSION	ELECTIVE-C1 GAS INSULATED SYSTEMS (GIS) VOLTAGE STABILITY FLEXIBILITY AC TRANSMISSION SYSTEMS (FACTS)	DIELECTRIC AND INSULATION ENGINEERING	OPEN ELECTIVE EMBEDDED SYSTEMS ANALYSIS OF POWER CONVERTERS RENEWABLE ENERGY SYSTEMS HVDC TRANSMISSION OPTIMIZATION TECHNIQUES DIGITAL CONTROL SYSTEMS		
HIGHWAY ENGINEERING~87	URBAN TRANSPORTATION PLANNING	TRAFFIC ENGINEERING	PAVEMENT MATERIAL CHARACTERIZATION	ELECTIVE-C1 ENGINEERING OF GROUND	ELECTIVE-C2 HIGHWAY INFRASTRUCTURE DESIGN ADVANCED CONCRETE TECHNOLOGY TRANSPORTATION SYSTEM MANAGEMENT	OPEN ELECTIVE REMOTE SENSING AND GIS PROJECT MANAGEMENT APPLIED STATISTICS	ELECTIVE-C1 ROAD SAFETY ENGINEERING	ELECTIVE-C1 BRIDGE ENGINEERING
ELECTRONICS & INSTRUMENTATION~88	ANALYSIS AND DESIGN OF SIGNAL CONDITIONING CIRCUITS	REAL TIME EMBEDDED SYSTEMS	TRANSDUCERS AND SMART INSTRUMENTS	ELECTIVE-C1 TRANSFORM TECHNIQUES ANALYTICAL INSTRUMENTATION SOFT COMPUTING TECHNIQUES	ELECTIVE-C2 INDUSTRIAL INSTRUMENTATION LINEAR AND NON LINEAR SYSTEMS ADVANCED DIGITAL SIGNAL PROCESSING	OPEN ELECTIVE DIGITAL INSTRUMENTATION BIOMEDICAL SIGNAL PROCESSING EMBEDDED SYSTEM DESIGN		

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AUTOMATION (MECHANICAL)~89	**AUTOMATION IN** MANUFACTURING	**OPEN ELECTIVE** SMART MATERIALS & STRUCTURES **QUALITY ENGINEERING IN MANUFACTURING**	**ELECTIVE-C2** NEURAL NETWORKS & FUZZY LOGIC **ADVANCED MECHATRONICS**	**ELECTIVE-C1** DESIGN AND MANUFACTURING OF MEMS & MICRO SYSTEMS	**MICRO PROCESSOR &** APPLICATIONS	**INDUSTRIAL** ROBOTICS	**ELECTIVE-C1** INTELLIGENT MANUFACTURING SYSTEMS **PERFORMANCE MODELING AND ANALYSIS OF MANUFACTURING SYSTEMS**	**ELECTIVE-C2** SPECIAL MANUFACTURING PROCESSES
HEATING VENTILATION & AIR CONDITIONING~91	**ADVANCED** THERMODYNAMICS	**ADVANCED HEAT AND MASS TRANSFER**	**REFRIGERATION**	**OPEN ELECTIVE** ENERGY MANAGEMENT **ADVANCED FINITE ELEMENT ANALYSIS**	**ELECTIVE-C2** REFRIGERATION EQUIPMENT & CONTROL SYSTEMS **FOOD PROCESSING TECHNOLOGY EQUIPMENT DESIGN FOR THERMAL SYSTEMS**	**ELECTIVE-C1** NON CONVENTIONAL ENERGY SOURCES **COMPUTATIONAL FLUID DYNAMICS**	**ELECTIVE-C1** CRYOGENIC ENGINEERING	
ENGINEERING DESIGN~95	**ADVANCED MECHANICS OF SOLIDS**	**ADVANCED MECHANICS OF MACHINERY**	**VIBRATION ANALYSIS OF MECHANICAL SYSTEMS**	**ELECTIVE-C1** DESIGN OPTIMIZATION **COMPUTER SIMULATION OF MACHINES**	**ELECTIVE-C2** MECHANICS OF METAL FORMING **ADVANCED MECHANICS OF COMPOSITE MATERIALS DESIGN FOR MANUFACTURING & ASSEMBLY**	**OPEN ELECTIVE** MECHATRONICS **GEOMETRIC MODELING**	**ELECTIVE-C1** THEORY OF ELASTICITY AND PLASTICITY	

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AERONAUTICAL ENGINEERING~97	ADVANCED MATHEMATICS IN AEROSPACE ENGINEERING		FLIGHT VEHICLE STRUCTURES	ELECTIVE-C1 ORBITAL MECHANICS / AVIONICS / STRUCTURAL DYNAMICS OF SPACECRAFT / ADVANCED HEAT TRANSFER / ADDITIVE MANUFACTURING	ELECTIVE-C2 HELICOPTER AERODYNAMICS / MODELLING AND SIMULATION OF FLUID FLOWS / AIRCRAFT SYSTEMS / COMPUTATIONAL STRUCTURAL MECHANICS / AIRPORT OPERATIONS	OPEN ELECTIVE JETS MISSILES AND ROCKETS INTRODUCTION TO AEROSPACE ENGINEERING	AERODYNAMICS OF FLIGHT VEHICLES	
POWERPLANT ENGINEERING AND ENERGY MANAGEMENT~99	ADVANCED THERMODYNAMICS	POWER PLANT MAINTENANCE	ELECTIVE-C2 POWER PLANT PROTECTION AND SWITCH GEAR / POWER DISTRIBUTION SYSTEMS / ADVANCED FLUID MECHANICS	OPEN ELECTIVE ENERGY OPTIMIZATION TECHNIQUES ENERGY SCENARIO	ADVANCED POWER PLANT ENGINEERING	ELECTIVE-C1 MATERIAL HANDLING MANAGEMENT / COMPUTATIONAL FLUID DYNAMICS / POWER PLANT ERECTION		
CONSTRUCTION MANAGEMENT~A1	CONSTRUCTION PROJECT PLANNING AND ADMINISTRATION	MANAGEMENT OF QUALITY AND SAFETY IN CONSTRUCTION	ELECTIVE-C2 . GEOTECHNICS FOR INFRASTRUCTURE	ELECTIVE-C1 QUANTITATIVE METHODS IN CONSTRUCTION MANAGEMENT. / INFRASTRUCTURE VALUATION / FORMWORK AND SCAFFOLDING DESIGN.	OPEN ELECTIVE HUMAN RESOURCES DEVELOPMENT FOR CONSTRUCTION	OPEN ELECTIVE REMOTE SENSING AND GIS FOR URBAN PLANNING & MANAGEMENT OPTIMIZATION TECHNIQUES	ELECTIVE-C2 INTEGRATED WATER RESOURCES MANAGEMENT REHABILITATION AND RETROFITTING OF STRUCTURES	CONSTRUCTION ENGINEERING PRACTICES

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CYBER FORENSIC INFORMATION SECURITY~A2	DATA STRUCTURES AND ALGORITHMS		NETWORK AND WIRELESS SECURITY	ELECTIVE-C1 INFORMATION SYSTEMS CONTROL AND AUDIT INFORMATION STORAGE MANAGEMENT DATABASE INTERNALS CLOUD COMPUTING	ELECTIVE-C2 MOBILE APPLICATION SECURITY DISTRIBUTED SYSTEMS WEB SECURITY INTERNET OF THINGS	OPEN ELECTIVE SCRIPTING LANGUAGES BIOMETRICS BIOINFORMATICS SOCIAL MEDIA INTELLIGENCE ALGORITHMICS ANDROID APPLICATION DEVELOPMENT R-PROGRAMMING PRINCIPLES OF INFORMATION SECURITY WEB USABILITY STORAGE AREA NETWORKS COMPUTER FORENSICS E – COMMERCE INFORMATION SECURITY AND AUDIT OPERATIONS RESEARCH OPEN STACK CLOUD COMPUTING BIG DATA ANALYTICS SOFTWARE ENGINEERING MOBILE APPLICATION SECURITY MOBILE COMPUTING	APPLIED CRYPTOGRAPHY	
						LINUX PROGRAMMING JAVA PROGRAMMING INTELLECTUAL PROPERTY RIGHTS		

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COURSE	25-06-2019 TUESDAY	27-06-2019 THURSDAY	29-06-2019 SATURDAY	02-07-2019 TUESDAY	04-07-2019 THURSDAY	06-07-2019 SATURDAY	09-07-2019 TUESDAY	11-07-2019 THURSDAY
CYBER SECURITY~A3	DATA STRUCTURES AND ALGORITHMS		NETWORK AND WIRELESS SECURITY	ELECTIVE-C1 CLOUD COMPUTING DATABASE INTERNALS INFORMATION STORAGE MANAGEMENT INFORMATION SYSTEMS CONTROL AND AUDIT	ELECTIVE-C2 DISTRIBUTED SYSTEMS INTERNET OF THINGS WEB SECURITY MOBILE APPLICATION SECURITY	OPEN ELECTIVE STORAGE AREA NETWORKS E – COMMERCE LINUX PROGRAMMING MOBILE APPLICATION SECURITY ALGORITHMICS COMPUTER FORENSICS BIOMETRICS OPEN STACK CLOUD COMPUTING BIOINFORMATICS JAVA PROGRAMMING PRINCIPLES OF INFORMATION SECURITY OPERATIONS RESEARCH R-PROGRAMMING ANDROID APPLICATION DEVELOPMENT SCRIPTING LANGUAGES MOBILE COMPUTING BIG DATA ANALYTICS INFORMATION SECURITY AND AUDIT SOCIAL MEDIA INTELLIGENCE	APPLIED CRYPTOGRAPHY	

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M.TECH-I SEMESTER -R15 REGULATION- SUPPLEMENTARY EXAMINATIONS JUNE-2019
T I M E T A B L E

T I M E : 10:00 AM TO 1:00 PM

COURSE	25-06-2019 TUESDAY	27-06-2019 THURSDAY	29-06-2019 SATURDAY	02-07-2019 TUESDAY	04-07-2019 THURSDAY	06-07-2019 SATURDAY	09-07-2019 TUESDAY	11-07-2019 THURSDAY
						SOFTWARE ENGINEERING INTELLECTUAL PROPERTY RIGHTS WEB USABILITY		
BIOMEDICAL SIGNAL PROCESSING INSTRUMENTATION~A4	PHYSIOLOGY FOR ENGINEERS	MEDICAL INSTRUMENTATION	ADVANCED MEDICAL IMAGING TECHNIQUES	OPEN ELECTIVE EMBEDDED SYSTEM DESIGN SOFT COMPUTING TECHNIQUES	ELECTIVE-C2 ROBOTICS IN MEDICAL APPLICATIONS BIO-MEMS AND NANOTECHNOLOGY ELECTRONIC SYSTEM DESIGN	ELECTIVE-C1 TRANSFORM TECHNIQUES MEDICAL SENSORS	ELECTIVE-C1 BIOINFORMATICS AND APPLICATIONS	OPEN ELECTIVE BIOSTATISTICS
VLSI DESIGN~A5	VLSI TECHNOLOGY	CMOS ANALOG INTEGRATED CIRCUIT DESIGN	OPEN ELECTIVE SOFT COMPUTING TECHNIQUES	ELECTIVE-C1 HARDWARE SOFTWARE CO-DESIGN DIGITAL SYSTEM DESIGN	ELECTIVE-C2 DEVICE MODELING ALGORITHMS FOR VLSI DESIGN AUTOMATION EMBEDDED SYSTEM DESIGN	CMOS DIGITAL INTEGRATED CIRCUIT DESIGN	ELECTIVE-C1 CPLD AND FPGA ARCHITECTURES AND APPLICATIONS	OPEN ELECTIVE SOFTWARE DEFINED RADIO IMAGE AND VIDEO PROCESSING

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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

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M.TECH-II SEMESTER -R15 REGULATION SUPPLEMENTARY EXAMINATIONS JUNE 2019
T I M E T A B L E

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CAD/CAM-04	ELECTIVE-III Special Manufacturing Process Design Optimization	Flexible Manufacturing Systems	Industrial Robotics	Design for Manufacturing And Assembly	(OE2) Engineering Research and Methodology	(ELECTIVE-IV) Advanced Mechatronics Design and Manufacturing of MEMS and Micro Systems Fuzzy Logic and Neural Networks	(OE2) Quality Engineering in Manufacturing	(ELECTIVE-III) Intelligent Manufacturing Systems
COMPUTR SCIENCE-05	Network Programming	Elective-IV Software Process and Project Management	Internet Technologies and Services	(ELECTIVE-III) 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	(ELECTIVE-IV) Big Data Analytics Soft Computing Distributed Computing	(ELECTIVE-III) Cyber Security Data Mining	Information Retrieval Systems

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

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

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

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

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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) Instrumentation & Control Intelligent Control Smart grid technologies AI Techniques in Electrical Engineering Reliability Engineering Energy Auditing, Conservation & Management	(Elective –IV) High-Frequency Magnetic Components Dynamics of Electrical Machines	(Elective –III) Power Quality Advanced Digital Signal Processing Switched Mode Power Supplies (SMPS)	(Elective –IV) Flexible AC Transmission Systems
Power Electronics -43	Power Electronic Converters	Power Electronic Control of DC Drives	Power Electronic Control of AC Drives		(OE2) Instrumentation & Control Intelligent Control Smart grid technologies AI Techniques in Electrical Engineering Reliability Engineering Energy Auditing, Conservation & Manageme nt	(Elective –IV) High-Frequency Magnetic Components Dynamics of Electrical Machines	(Elective –III) Power Quality Advanced Digital Signal Processing Switched Mode Power Supplies (SMPS)	(Elective –IV) Flexible AC Transmission Systems

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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 CPLD and FPGA Architectures and Applications	(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
Electrical Power Engineering -49	Power System Dynamics		Power System Operation and Deregulation	(Elective –III) Gas Insulated Systems(GIS) Programmable Logic Controllers and their applications High frequency magnetic components	(OE2) Instrumentation & Control Intelligent Control Smart grid technologies AI Techniques in Electrical Engineering Reliability Engineering Energy Auditing, Conservation & Management	(Elective –IV) Reactive Power Compensation and Management Power System Reliability Voltage Stability		Flexible AC Transmission Systems (FACTS)
Design for manufacturing-52	Design of Hydraulic & Pneumatic Systems	(Elective –IV) Advanced Optimization Techniques & Applications	Advanced Tool Design	(Elective –III) Intelligent Manufacturing Systems Product Data Management Neural Network & Fuzzy Logic	(OE2) Concurrent Engineering & Product Life Cycle Management	(Elective –IV) Smart Materials & Structures Vibration Analysis & Condition Monitoring	(OE2) Experimental Techniques & Data Analysis	Precision Engineering

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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 Intelligent Control Smart grid technologies AI Techniques in Electrical Engineering Reliability Engineering Energy Auditing, Conservation & Management	(Elective –IV) High Frequency Magnetic Components Dynamics of Electrical Machines	(Elective –III) Power Quality Advanced Digital Signal Processing Switched Mode Power Supplies (SMPS)	(Elective –IV) Flexible AC Transmission Systems
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 Device Modeling	(Elective –III) Wireless Communication and Networks	(Elective –III) System On Chip Architecture CPLD and FPGA Architectures and Applications	(OE2) Adhoc Wireless and Sensor Networks
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 Scripting Languages	(Elective –III) VLSI and DSP Architectures Full custom Design Hardware Description Language	(Elective –IV) System On Chip Architecture	(OE2) Coding Theory and Techniques

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

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

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Web Technologies -62	Android Application Development		Semantic Web and Social Networks	(Elective –III) Human Computer Interaction Cyber Security Software Architecture and Design Patterns Computer Forensics	(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 Distributed Systems Distributed Computing	(Elective –IV) Cloud Computing	Web Services and Service Oriented Architecture

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

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

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

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E X A M I N A T I O N B R A N C H
M.TECH-II SEMESTER -R15 REGULATION- SUPPLEMENTARY EXAMINATIONS JUNE 2019
T I M E T A B L E

TIME : 10:00 AM TO 1:00 PM

COURSE	24-06-2019 MONDAY	26-06-2019 WEDNESDAY	28-06-2019 FRIDAY	01-07-2019 MONDAY	03-07-2019 WEDNESDAY	05-07-2019 FRIDAY	08-07-2019 MONDAY	10-07-2019 WEDNESDAY
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 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		Industrial Robotics	(Elective –III) Design for Manufacture & Assembly Adaptive Manufacturing Processes	(OE2) Simulation, Modeling of Manufacturing Systems Autotronics & Vehicle Intelligence Experimental Techniques & Data Analysis	Fuzzy Logic & Neural Networks	(Elective –III) MEMS	(Elective –IV) Intelligent Manufacturing Systems Computer Aided Metrology & Machine Vision Nano Composites-Design & Synthesis
Computer Networks -82	Network Security	Wireless Networks		(Elective –III) Internet Technologies and Services 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	(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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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 / Disaster Management / Finite Element Method	(Elective –IV) Intelligent transportation systems / Rural Roads / Airport Engineering	Pavement Construction, Maintenance & Management	(Elective –III) Highway Project Formulation and Economics
Electronics and Instrumentation -88	Industrial Automation	Industrial Data Communications		(Elective –III) Advanced Instrumentation Systems / Quality and Reliability Engineering / CPLD and FPGA Architectures and Applications	(OE2) Sensors and Actuators / Multimedia and Signal Coding	(Elective –IV) MEMS and Applications / Robotic Design and Control / Advanced Image Processing	Advanced Process Control Instrumentation	(OE2) Instrumentation Practices in Industries
Heating Ventilation & Air Conditioning -91	Air Conditioning	Ventilation systems	Heating systems	(Elective –III) Environmental friendly refrigerants / Ducting & A/C Supply systems / A/C instrumentation & control systems	(OE2) Advanced optimization techniques / Green building concepts	(Elective –IV) Advanced materials for Thermal Systems / Unconventional Refrigeration & Air-Conditioning systems / Maintenance of A/C equipment		

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

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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 US

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TIME : 10:00 AM TO 1:00 PM

COURSE	24-06-2019 MONDAY	26-06-2019 WEDNESDAY	28-06-2019 FRIDAY	01-07-2019 MONDAY	03-07-2019 WEDNESDAY	05-07-2019 FRIDAY	08-07-2019 MONDAY	10-07-2019 WEDNESDAY
CAD/CAM-04	ELECTIVE-III Special Manufacturing Process	Flexible Manufacturing Systems	Industrial Robotics	Design for Manufacturing And Assembly	(OE-II) Finite Element Method Optimization Techniques Industrial Instrumentation Principles of Computer Communications and Networks Energy From Waste Distributed Generation and Microgrid Reliability Engineering Machine Learning	(ELECTIVE-IV) Advanced Mechatronics MEMS and Micro Systems: Design and Manufacturing Fuzzy Logic and Neural Networks	(ELECTIVE-III) Optimization Techniques and Applications	(ELECTIVE-III) Intelligent Manufacturing Systems
COMPUTR SCIENCE-05	Network Programming	Elective-IV Software Process and Project Management	Distributed Systems and Cloud Computing	(ELECTIVE-III) Data Warehousing and Data Mining Storage Area Networks Semantic Web and Social Networks	(OE-II) Finite Element Method Optimization Techniques Industrial Instrumentation Principles of Computer Communications and Networks Energy From Waste Distributed Generation and Microgrid Reliability Engineering Engineering Research Methodology	(ELECTIVE-IV) Big Data Analytics Soft Computing Machine Learning	(ELECTIVE-III) Cyber Security	Theory of Computation

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DIGITAL SYSTEM &COMPUTER ELECTRONICS -06	Advanced Computer Architecture	Design of Fault Tolerant Systems	Embedded System Design	(E-III) Virtual Instrumentation Network Security and Cryptography	(OE-II) Finite Element Method Optimization Techniques Energy From Waste Distributed Generation and Microgrid Reliability Engineering Engineering Research Methodology Machine Learning	(Elective-IV) Verilog Hardware Description Language Adhoc Wireless Networks	(Elective-IV) System On Chip Architectures	(E-III) Scripting Languages
ELECTRICAL POWER SYSTEMS – 07	Power System Dynamics and Control		Power System Operation and Deregulation	(Elective -III) Gas Insulated Systems(GIS) Programmable Logic Controllers and their applications Energy Auditing Conservation and Management	(OE-II) Finite Element Method Optimization Techniques Industrial Instrumentation Principles Of Computer Communications And Networks Machine Learning Engineering Research Methodology	Elective -IV) Reactive Power Compensation and Management Power System Reliability Voltage Stability		Flexible AC Transmission Systems (FACTS)

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Environmental Engineering-11	Air Pollution and Control	Industrial Waste Water Treatment	Solid Waste Management	(Elective -III) Ground Water Contamination and Remediation Disaster Management Water Quality Modeling	(OE-II) Industrial Instrumentation Principles of Computer Communications and Networks Energy From Waste Distributed Generation and Microgrid Reliability Engineering Engineering Research Methodology Machine Learning	Elective -IV) Environmental Geotechnology Environmental Biotechnology Hazardous Waste management		
Machine Design-15	Experimental Stress Analysis(ST)	Analysis & Synthesis of Mechanisms	(Elective –III) Industrial Robotics Product Design & Development	(Elective –III) Fuzzy logic & Neural Networks	(OE-II) Finite Element Method Optimization Techniques Industrial Instrumentation Principles of Computer Communications and Networks Energy From Waste Distributed Generation and Microgrid Reliability Engineering Machine Learning Mechanical Behavior of Engineering Materials (ST)	(Elective –IV) Vehicle Dynamics Design and Analysis of Experiments Structural Health Monitoring	Finite Element Analysis	Engineering Design

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Production Engineering -16	Advanced Manufacturing Processes	E-IV Performance Modeling & Analysis Of Manufacturing System Advanced Finite Element Methods	Advanced Tool Design	(Elective –III) Material Technology Additive manufacturing Technologies	(OE-II) Finite Element Method Optimization Techniques Industrial Instrumentation Principles of Computer Communications and Networks Energy From Waste Distributed Generation and Microgrid Reliability Engineering Machine Learning	(Elective –III) Vibration Analysis & Condition Monitoring	(E-IV) Experimental Techniques &Data Analysis	(Core) Computer Aided Process Planning
Structural Engineering -20	Pre-stressed Concrete	core Advanced Steel Design	(Elective –IV) Repair & Rehabilitation of Buildings	Theory of Plates	(OE-II) Industrial Instrumentation Principles of Computer Communications and Networks Energy From Waste Distributed Generation and Microgrid Reliability Engineering Engineering Research Methodology Machine Learning	(Elective –IV) Earthquake Resistant Design of Buildings	(Elective –IV) Stability of Structures	(E-III) Finite Element Method Bridge Engineering Design of Substructures

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Thermal Engineering- 21	Refrigeration and Air Conditioning	(E-III) Advanced Finite Element Methods	Computational Fluid Dynamics	(Elective –III) Alternate Fuels for I.C. Engines	(OE-II) Finite Element Method / Optimization Techniques	(Elective –IV) Convective Heat Transfer		Advanced I.C. Engines
				Turbo machines & Propulsion Systems	Industrial Instrumentation / Principles of Computer Communications and Networks / Energy From Waste / Distributed Generation and Microgrid / Reliability Engineering / Machine Learning	Equipment Design For Thermal Systems / Computer Simulation of SI & CI Engine		
Transportation Engineering -22	Traffic Analysis	Land Use Transportation Modeling	(Elective –III) Airport Engineering	Pavement Analysis and Design	(OE-II) Industrial Instrumentation / Principles of Computer Communications and Networks / Energy From Waste	(Elective –IV) Pavement Construction Maintenance and Management	(Elective –III) Environmental Impact assessment for Transportation Projects	(Elective –III) Highway Project Formulation & Economics
					Distributed Generation and Microgrid / Reliability Engineering / Engineering Research Methodology / Machine Learning	Intelligent transportation systems / 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	(OE-II) Finite Element Method	(Elective –IV) Software Security Engineering	(Elective –IV) Cyber Security	(Elective –III) Scripting Languages
					Optimization Techniques			Information Retrieval Systems
					Industrial Instrumentation	Information Security And Audit		E - Commerce
					Principles of Computer Communications and Networks	Systems Engineering		
					Energy From Waste			
					Distributed Generation and Microgrid			
					Reliability Engineering			
					Engineering Research Methodology			

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Microwave & Radar engineering -30	Microwave Antenna Theory & Design	Radar Signals and Processing Techniques	Microwave Solid State Devices	(Elective –III) Broadband Communications Phased Array Systems EMI / EMC	OE-II Finite Element Method Optimization Techniques Energy From Waste Distributed Generation and Microgrid Reliability Engineering Engineering Research Methodology Machine Learning		(Elective –IV) Smart Antennas Microwave Integrated Circuits Radar Signal Processing	
Advanced Manufacturing Systems -33	Manufacturing Systems: Simulation Modeling & Analysis	Performance Modeling & Analysis of Manufacturing Systems	(Elective –III) Industrial Robotics Advanced Tool Design	Materials Technology	OE-II Finite Element Method Optimization Techniques Industrial Instrumentation Principles of Computer Communications and Networks Energy From Waste Distributed Generation and Microgrid Reliability Engineering Machine Learning	(Elective –IV) Total Quality Management Vibrational Analysis & Conditioning Monitoring Concurrent Engineering & Product life cycle Management	(Elective –III) Quality Engineering in Manufacturing	

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Digital Electronics and communication systems/engg-38	Detection and Estimation Theory	Design of Fault Tolerant Systems	(Elective –IV) Digital Signal Processors and Architectures EMI / EMC	Elective-III Software Defined Radio Cellular and Mobile Communications	OE-II Finite Element Method Optimization Techniques Energy From Waste Distributed Generation And Microgrid Reliability Engineering Engineering Research Methodology Machine Learning	(Elective –IV) Network Security And Cryptography	Elective-III System on Chip Architecture	Wireless Communications and Networks
Information Technology-40	Machine Learning with R	Mobile Application Development	(Elective –IV) Software Quality Assurance and Testing Cyber Security and Forensics	(Elective –III) Information Security And Audit Internet Technologies and Services Semantic Web and Social Networks Embedded Systems	(OE-II) Finite Element Method Optimization Techniques Industrial Instrumentation Principles Of Computer Communications And Networks Energy From Waste Distributed Generation And Microgrid Reliability Engineering Engineering Research Methodology	Software Engineering	(Elective –IV) Cloud Computing and Distributed Computing	(Elective –IV) E-Commerce

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Power and Industrial Drives -42	Power Electronic Applications to Renewable Energy	Embedded Systems for Power Electronic Applications	Power Electronic Control of Drives		(OE-II) Finite Element Method Optimization Techniques Industrial Instrumentation Principles Of Computer Communications And Networks Engineering Research Methodology Machine Learning	(Elective –IV) Dynamics of Electrical Machines Hybrid Electric Vehicles Smart Grid Technologies	(Elective –III) Switched Mode Power Supplies (SMPS) HVDC & FACTS AI Techniques in Electrical Engineering	
Power Electronics -43	Power Electronic Applications to Renewable Energy	Embedded Systems for Power Electronic Applications	Power Electronic Control of Drives		(OE-II) Finite Element Method Optimization Techniques Industrial Instrumentation Principles Of Computer Communications And Networks Engineering Research Methodology Machine Learning	(Elective –IV) Dynamics of Electrical Machines Hybrid Electric Vehicles Smart Grid Technologies	(Elective –III) Switched Mode Power Supplies (SMPS) HVDC & FACTS AI Techniques in Electrical Engineering	

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Systems and Signal processing -45	Detection and Estimation Theory	Digital Signal Processors and Architectures	CORE Image and Video Processing	(Elective –III) Embedded System Design	OE-II Finite Element Method Optimization Techniques Energy From Waste Distributed Generation And Microgrid Reliability Engineering Engineering Research Methodology Machine Learning	(Elective –III) Spread Spectrum Communication Speech Signal Processing	(Elective –IV) System on Chip Architecture	(Elective –IV) Coding Theory and Techniques Wireless Communications and Networks
Electrical Power Engineering -49	Power System Dynamics and Control		Power System Operation and Deregulation	(Elective -III) Gas Insulated Systems(GIS) Programmable Logic Controllers and their applications Energy Auditing Conservation and Management	(OE-II) Finite Element Method Optimization Techniques Industrial Instrumentation Principles of Computer Communications and Networks Engineering Research Methodology Machine Learning	Elective -IV) Reactive Power Compensation and Management Power System Reliability Voltage Stabiity		Flexible AC Transmission Systems (FACTS)

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Design for manufacturing-52	Design of Hydraulic & Pneumatic Systems		Advanced Tool Design	(Elective –III) Intelligent Manufacturing Systems Product Data Management Fuzzy Logic and Neural Networks	OE-II Finite Element Method Optimization Techniques Industrial Instrumentation Energy From Waste Distributed Generation And Microgrid Reliability Engineering Machine Learning Principles Of Computer Communications And Networks	(Elective –IV) Smart Materials & Structures Vibration Analysis & Condition Monitoring	(Elective –IV) Optimization Techniques and Applications	Precision Engineering
Power Electronics and Electric Drives -54	Power Electronic Applications to Renewable Energy	Embedded Systems for Power Electronic Applications	Power Electronic Control of Drives		(OE-II) Finite Element Method Optimization Techniques Industrial Instrumentation Principles Of Computer Communications And Networks Engineering Research Methodology Machine Learning	(Elective –IV) Dynamics of Electrical Machines Hybrid Electric Vehicles Smart Grid Technologies	(Elective –III) Switched Mode Power Supplies (SMPS) HVDC & FACTS AI Techniques in Electrical Engineering	

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Embedded Systems -55	(Elective –IV) Hardware Software Co-Design	(Core) Embedded Computing	Sensors and Actuators	(Elective –IV) Advanced Digital Signal Processing	OE-II Finite Element Method / Optimization Techniques / Energy From Waste / Distributed Generation And Microgrid / Reliability Engineering / Engineering Research Methodology / Machine Learning	(Elective –IV) Network Security and Cryptography	CORE System on Chip Architecture	(Elective –III) Design for Testability / Scripting Languages / Wireless Communication and Networks
VLSI system Design/VLSI Design -57	Low Power VLSI Design	CMOS Mixed Signal Circuit Design	Design For Testability	(Elective –IV) RF IC Design	(OE-II) Finite Element Method / Optimization Techniques / Energy From Waste / Distributed Generation And Microgrid / Reliability Engineering / Engineering Research Methodology / Machine Learning	(Elective –III) VLSI and DSP Architectures / Full custom IC Design / Verilog Hardware Description Language	(Elective –IV) System On Chip Architecture	(Elective –IV) Scripting Languages

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Computer Science Engineering -58	Network Programming	Elective-IV Software Process and Project Management	Distributed Systems and Cloud Computing	(Elective –III) Data Warehousing and Data Mining Storage Area Networks Semantic Web and Social Networks	(OE-II) Finite Element Method Optimization Techniques Industrial Instrumentation Principles Of Computer Communications And Networks Energy From Waste Distributed Generation And Microgrid Reliability Engineering Engineering Research Methodology	(Elective –IV) Big Data Analytics Soft Computing Machine Learning	(Elective –III) Cyber Security	Theory of Computation
Communicatin Systems -61	Advanced Communications and Networks	3G Networks	(E3) Wireless MIMO Communications	(E3) Wireless LANs and PANs Ad-hoc Wireless Networks	OE-II Finite Element Method Optimization Techniques Energy From Waste Distributed Generation And Microgrid Reliability Engineering Engineering Research Methodology Machine Learning	(E4) Network Security and Cryptography Multimedia and Signal Coding	(E4) Optical Communications and Networks	Coding Theory and Techniques

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Web Technologies -62	(Elective –III) Software Architecture and Design Patterns	Mobile Application Development	Internet Of Things	(Elective –III) Human Computer Interaction Cyber Security Computer Forensics	OE-II Finite Element Method Optimization Techniques Industrial Instrumentation Principles Of Computer Communications And Networks Energy From Waste Distributed Generation And Microgrid Reliability Engineering Engineering Research Methodology	(Elective –IV) Big Data Analytics Distributed Systems Distributed Computing	(Elective –IV) Cloud Computing	Web Services and Service Oriented Architecture
power engineering & energy systems 64	Modern Control Theory		Smart Grid Technologies	(Elective-III) Energy Auditing Conservation and Management Programmable Logic Controllers and their applications High Frequency Magnetic Components	(OE-II) Finite Element Method Optimization Techniques Industrial Instrumentation Principles Of Computer Communications And Networks Engineering Research Methodology Machine Learning	(Elective-IV) Reactive Power Compensation and Management Power System Reliability Voltage Stability		Flexible AC Transmission Systems (FACTS)

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Wireless and Mobile Communication -65	Advanced Communication Systems	(Elective –IV) Software Defined Radio / 3G Networks	Adhoc Wireless Networks	(Elective –III) Optical Communications and Networks / Wireless LANs and PANs	OE-II Finite Element Method / Optimization Techniques / Energy From Waste / Distributed Generation And Microgrid / Reliability Engineering / Engineering Research Methodology / Machine Learning	(Elective –IV) Network Security and Cryptography	Spread Spectrum Communications	(Elective –III) Wireless Sensor Networks
VLSI and Embedded Systems -68	Low Power VLSI Design	CMOS Mixed Signal Circuit Design	Real Time Operating Systems	(Elective –III) Embedded Networking / Advanced Digital Signal Processing	OE-II Finite Element Method / Optimization Techniques / Energy From Waste / Distributed Generation And Microgrid / Reliability Engineering / Engineering Research Methodology / Machine Learning	(Elective –IV) Physical Design Automation	(Elective –III) System On Chip Architecture	(Elective –IV) Design for Testability / Scripting Languages
Electronics and Communication Engineering-70	System on Chip Architectures	Elective -IV Design of Fault Tolerant Systems	Embedded System Design	E-IV Image and Video Processing	OE-II Finite Element Method / Optimization Techniques / Energy From Waste / Distributed Generation And Microgrid / Reliability Engineering / Engineering Research Methodology / Machine Learning	(Elective –III) Spread Spectrum Communications / Network Security And Cryptography / Adaptive Signal Processing	E-IV Optical Communications and Networks	Wireless Communications and Networks

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Control Systems -75	Optimal Control Theory	Adaptive and Learning Control	Embedded Systems and Control	(Elective –IV) Advanced Digital Signal Processing	OE-II Finite Element Method / Optimization Techniques / Industrial Instrumentation / Principles Of Computer Communications And Networks / Engineering Research Methodology / Machine Learning	(Elective –III) Programmable Logic Controllers and Applications / Robust Control	(Elective –IV) Real Time Systems / Robotics and Control	(Elective –III) Non-linear Systems
Embedded Systems & VLSI Design-77	Low Power VLSI Design	CMOS Mixed Signal Circuit Design	Real Time Operating Systems	(Elective –III) Advanced Digital Signal Processing / Embedded Networking	OE-II Finite Element Method / Optimization Techniques / Energy From Waste / Distributed Generation And Microgrid / Reliability Engineering / Engineering Research Methodology / Machine Learning	(Elective –IV) Physical Design Automation	(Elective –III) System On Chip Architecture	(Elective –IV) Design for Testability / Scripting Languages

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Computer Networks and Information Security -78	Network Programming	Wireless Networks		ELECTIVE-III Digital Water Marking and Steganography / Big Data Analytics / Network Security Standards and Applications Evaluation / Internet Technologies and Services	(OE-II) Finite Element Method / Optimization Techniques / Industrial Instrumentation / Principles Of Computer Communications And Networks / Energy From Waste / Distributed Generation And Microgrid / Reliability Engineering / Engineering Research Methodology	(Elective –IV) Storage Area Networks / Ethical Hacking / Information Systems control and Audit	(Elective –IV) Cyber Security	IT Security- Threats and Vulnerability
Mechatronics -80	Micro Controller & Applications	Additive Manufacturing Technologies	Industrial Robotics	(Elective –III) Design for Manufacture & Assembly / Fuzzy Logic & Neural Networks	OE-II Finite Element Method / Optimization Techniques / Industrial Instrumentation / Principles Of Computer Communications And Networks / Energy From Waste / Distributed Generation And Microgrid / Reliability Engineering / Machine Learning	ELECTIVE-IV Computer Aided Metrology & Machine Vision / Nano Composites- Design & Synthesis	(Elective –III) MEMS	(Elective –IV) Intelligent Manufacturing Systems

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Computer Networks -82	Network Programming	Wireless Networks		(Elective –III) Internet Technologies and Services	(OE-II) Finite Element Method / Optimization Techniques	(Elective –IV) Storage Area Networks	(Elective –IV) Cyber Security	IT Security- Threats and Vulnerability
				Digital Water Marking and Steganography	Industrial Instrumentation	Ethical Hacking		
				Big Data Analytics	Principles Of Computer Communications And Networks	Information Systems Control And Audit		
				Network Security Standards and Applications Evaluation	Energy From Waste			
					Distributed Generation And Microgrid			
					Reliability Engineering			
					Engineering Research Methodology			
Highway Engineering -87	(Elective-III) Traffic Analysis	(Elective –III) Land use and Transportation Modeling	(Elective –IV) Airport Engineering	Pavement Analysis and Design	(OE-II) Industrial Instrumentation	(Elective –IV) Intelligent transportation systems	Pavement Construction, Maintenance & Management	Highway Project Formulation and Economics
		Environmental Impact Assessment for Transportation Projects			Principles Of Computer Communications And Networks	Rural Roads		
					Energy From Waste			
					Distributed Generation And Microgrid			
					Reliability Engineering			
					Engineering Research Methodology			
					Machine Learning			

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Electronics and Instrumentation -88	Industrial Automation		Sensors and Actuators	(Elective –III) Advanced Instrumentation Systems Quality and Reliability Engineering	(OE-II) Finite Element Method Optimization Techniques Energy From Waste Distributed Generation and Microgrid Reliability Engineering Engineering Research Methodology Machine Learning	(Elective –IV) MEMS and Applications Robotic Design and Control Advanced Image Processing	Advanced Process Control Instrumentation	(Elective-iii) Instrumentation Practices in Industries
Heating Ventilation & Air Conditioning -91	Advanced Heat Transfer	Ventilation Systems	Heating systems	(Elective –III) Refrigeration Air Condition Equipment & Control Systems Ducting And Air-Conditioning Supply Systems Energy Storage Systems	(OE-II) Finite Element Method Optimization Techniques Industrial Instrumentation Principles Of Computer Communications And Networks Energy From Waste Distributed Generation And Microgrid Reliability Engineering Machine Learning	(Elective –IV) Energy Conversion and Management Automotive Air Conditioning Maintenance of Refrigeration & Air Conditioning Equipment		
Systems and Signal processing -93	Detection and Estimation Theory	Digital Signal Processors and Architectures	(Elective –III) Embedded System Design	CORE Image and Video Processing	OE-II Finite Element Method Optimization Techniques Energy From Waste Distributed Generation And Microgrid Reliability Engineering Engineering Research Methodology Machine Learning	(Elective –III) Spread Spectrum Communication Speech Signal Processing	Elective –IV) System on Chip Architecture	Elective –IV) Coding Theory and Techniques Wireless Communications and Networks

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Engineering Design -95	Experimental Stress Analysis	Advanced Finite Element Methods	(Elective –III) Industrial Robotics	(Elective –III) Fuzzy logic & Neural Networks	OE-II Finite Element Method / Optimization Techniques / Industrial Instrumentation / Principles Of Computer Communications And Networks / Energy From Waste / Distributed Generation And Microgrid / Reliability Engineering / Machine Learning	(Elective –IV) Vehicle Dynamics / Design and Analysis of Experiments / Structural Health monitoring	(Elective –III) Engineering Design	Mechanical Behavior of Engineering Materials
Construction Management -A1	Management of quality and safety in construction	Construction and Contract Management		(Elective –III) Construction Economics and Finance / Waste Management System / Building services.	OE-II Industrial Instrumentation / Principles Of Computer Communications And Networks / Energy From Waste / Distributed Generation And Microgrid / Reliability Engineering / Engineering Research Methodology / Machine Learning	(Elective –IV) Under Water Construction / Urban/Regional Transportation Analysis and Planning Methods	(Elective –IV) Advanced concrete Technology.	Civil Engineering Materials and Recent Advances

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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 US

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BIOTECHNOLOGY~03	BIOREACTOR ENGINEERING	GENETIC ENGINEERING	DOWNSTREAM PROCESSING	ELECTIVE III/IV/V ENVIRONMENTAL BIOTECHNOLOGY	ELECTIVE III/IV/V PLANT BIOTECHNOLOGY	ELECTIVE III/IV/V ANIMAL CELL SCIENCE AND TECHNOLOGY	ELECTIVE III/IV/V NANO BIOTECHNOLOGY AND NANO DEVICES BIOINFORMATICS ADVANCED IMMUNOLOGY AND IMMUNOTECHNOLOGY	
CAD/CAM~04	DESIGN OF HYDRAULICS AND PNEUMATICS SYSTEMS	FLEXIBLE MANUFACTURING SYSTEMS	INDUSTRIAL ROBOTICS	COMPUTER AIDED MANUFACTURING	ELECTIVE III COMPUTATIONAL FLUID DYNAMICS AUTOMATION IN MANUFACTURING PRODUCTION AND OPERATIONS MANAGEMENT	ELECTIVE IV INTELLIGENT MANUFACTURING SYSTEMS DESIGN OPTIMIZATION		ELECTIVE IV COMPUTER AIDED PROCESS PLANNING
COMPUTER SCIENCE~05	ADVANCED NETWORK PROGRAMMING	WEB SERVICES AND SERVICE ORIENTED ARCHITECTURE	WIRELESS NETWORKS AND MOBILE COMPUTING	ELECTIVE IV SEMANTIC WEB AND SOCIAL NETWORKS	ELECTIVE III ADVANCED DATA MINING STORAGE AREA NETWORKS DATABASE SECURITY	ELECTIVE IV CLOUD COMPUTING	ADVANCED DATABASES	ELECTIVE IV INFORMATION RETRIEVAL SYSTEMS
DIGITAL SYSTEM & COMPUTER ELECTRONICS~06	ADVANCED COMPUTER ARCHITECTURE		EMBEDDED REAL TIME OPERATING SYSTEMS		ELECTIVE III CPLD AND FPGA ARCHITECTURES AND APPLICATIONS SYSTEM ON CHIP ARCHITECTURE NETWORK SECURITY AND CRYPTOGRAPHY	ELECTIVE IV DIGITAL SIGNAL PROCESSORS AND ARCHITECTURES TCP/IP AND ATM NETWORKS CMOS MIXED SIGNAL CIRCUIT DESIGN	LOW POWER VLSI DESIGN	DESIGN FOR TESTABILITY
ELECTRICAL POWER SYSTEM~07	POWER SYSTEM DYNAMICS		POWER SYSTEM OPERATION AND DEREGULATION	ELECTIVE III GAS INSULATED SYSTEMS(GIS) ELECTRIC SMART GRID ENERGY AUDITING CONSERVATION AND MANAGEMENT	AI TECHNIQUES IN ELECTRICAL POWER ENGINEERING	ELECTIVE IV VOLTAGE STABILITY REACTIVE POWER COMPENSATION AND MANAGEMENT POWER SYSTEM RELIABILITY		FLEXIBLE AC TRANSMISSION SYSTEMS (FACTS)
ENERGY SYSTEMS~10	PHOTOVOLTAIC & SOLAR THERMAL SYSTEMS	DESIGN AND OPTIMISATION OF ENERGY SYSTEMS	THERMAL ENERGY MANAGEMENT AND CONSERVATION	ELECTRICAL ENERGY MANAGEMENT AND CONSERVATION	ELECTIVE III SOLAR REFRIGERATION AND AIR CONDITIONING ADVANCED CONTROL SYSTEMS HYDEL POWER ENGINEERING STEAM AND GAS TURBINES	ELECTIVE IV COMPUTATIONAL FLUID DYNAMICS BIO-CONVERSION & PROCESSING OF WASTE COGENERATION GREEN BUILDINGS CONCEPTS		
ENVIRONMENTAL ENGINEERING~11	AIR POLLUTION AND CONTROL	INDUSTRIAL WASTE WATER TREATMENT	SOLID WASTE MANAGEMENT	ENVIRONMENTAL IMPACT ASSESMENT	ELECTIVE III WATER QUALITY MODELING DISASTER MANAGEMENT GROUND WATER CONTAMINATION AND REMEDIATION	ELECTIVE IV ENVIRONMENTAL BIOTECHNOLOGY ENVIRONMENTAL GEOTECHNOLOGY REMOTE SENSING AND GIS		

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GEOTECHNICAL ENGINEERING~12	GEOSYNTHETICS & SOIL REINFORCEMENT	EARTH & ROCK FILL DAMS AND SLOPE STABILITY	RETAINING STRUCTURES	SOIL - STRUCTURE INTERACTION	ELECTIVE III ROCK MECHANICS AND ENGINEERING THEORETICAL SOIL MECHANICS GEOTECHNICAL EARTHQUAKE ENGINEERING	ELECTIVE IV ENVIRONMENTAL IMPACT ASSESSMENT AND MANAGEMENT GEOGRAPHICAL INFORMATION SYSTEMS PAVEMENT ANALYSIS AND DESIGN		
INDUSTRIAL ENGINEERING AND MANAGEMENT~13	SIMULATION MODELING & ANALYSIS OF MANUFACTURING SYSTEMS	SUPPLY CHAIN MANAGEMENT	PRODUCTION AND OPERATIONS MANAGEMENT	RELIABILITY ENGINEERING AND MAINTENANCE MANAGEMENT	ELECTIVE III ENTERPRISE RESOURCE PLANNING TOTAL QUALITY MANAGEMENT	ELECTIVE IV MARKETING MANAGEMENT ENERGY MANAGEMENT		
MACHINE DESIGN~15	EXPERIMENTAL STRESS ANALYSIS	ADVANCED OPTIMIZATION TECHNIQUES AND APPLICATIONS	ELECTIV III INDUSTRIAL ROBOTICS	ADVANCED MECHANICS OF MACHINERY	ELECTIVE III NON LINEAR VIBRATIONS DESIGN SYNTHESIS PRESSURE VESSEL DESIGN	ELECTIVE IV SIGNAL ANALYSIS AND CONDITION MONITORING THEORY OF PLATES AND SHELLS MECHATRONICS	ELECTIVE IV COMPUTATIONAL FLUID DYNAMICS	MECHANICAL VIBRATIONS
PRODUCTION ENGINEERING~16	PRECISION ENGINEERING	RAPID PROTOTYPING TECHNOLOGIES	ELECTIVE IV INDUSTRIAL ROBOTICS	AUTOMATION IN MANUFACTURING	ELECTIVE III FINITE ELEMENT TECHNIQUES DESIGN AND MANUFACTURE OF MEMS & MICRO SYSTEMS INTELLIGENT MANUFACTURING SYSTEMS	ELECTIVE IV DESIGN FOR MANUFACTURE & ASSEMBLY MECHATRONICS	OPTIMIZATION TECHNIQUES AND APPLICATIONS	
STRUCTURAL ENGINEERING~20	ELECTIVE III PRE STRESSED CONCRETE	STRUCTURAL DYNAMICS	ANALYSIS AND DESIGN OF SHELLS AND FOLDED PLATES	ADVANCED. STEEL DESIGN	ELECTIVE III ADVANCED FOUNDATION ENGINEERING COMPUTER AIDED DESIGN IN STRUCTURAL ENGINEERING (CAD)	ELECTIVE IV PLASTIC ANALYSIS AND DESIGN. EARTHQUAKE RESISTANT DESIGN OF BUILDINGS PRINCIPLES OF BRIDGE ENGINEERING	ELECTIVE IV STABILITY OF STRUCTURES	FINITE ELEMENT METHODS
THERMAL ENGINEERING~21	FUELS COMBUSTION & ENVIRONMENT	ENERGY MANAGEMENT	COMPUTATIONAL FLUID DYNAMICS		ELECTIVE III CONVECTIVE HEAT TRANSFER EQUIPMENT DESIGN FOR THERMAL SYSTEMS THERMAL & NUCLEAR POWER PLANTS	ELECTIVE IV THERMAL MEASUREMENTS AND PROCESS CONTROLS JET PROPULSION & ROCKETRY REFRIGERATION & AIR-CONDITIONING	ADVANCED FINITE ELEMENT ANALYSIS	
TRANSPORTATION ENGINEERING~22	TRAFFIC ANALYSIS	LAND USE TRANSPORTATION MODELING	HIGHWAY PROJECT FORMULATION & ECONOMICS	PAVEMENT ANALYSIS AND DESIGN	ELECTIVE III/IV INTELLIGENT TRANSPORTATION SYSTEMS OPTIMIZATION TECHNIQUES	ELECTIVE III/IV RURAL ROAD	ELECTIVE III/IV PAVEMENT CONSTRUCTION MAINTENANCE AND MANAGEMENT	ELECTIVE III/IV GIS APPLICATIONS IN TRANSPORTATION ENGINEERING ENVIRONMENTAL IMPACT ASSESSMENT FOR TRANSPORTATION PROJECTS

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SOFTWARE ENGINEERING~25	SOFTWARE ARCHITECTURE AND DESIGN PATTERNS	SOFTWARE PROCESS AND PROJECT MANAGEMENT	SOFTWARE QUALITY ASSURANCE AND TESTING	COMPONENT BASED SOFTWARE ENGINEERING	ELECTIVE III SEMANTIC WEB AND SOCIAL NETWORKS SCRIPTING LANGUAGES	ELECTIVE IV BUSINESS PROCESS MANAGEMENT	ELECTIVE IV CLOUD COMPUTING ADVANCED DATABASES	ELECTIVE III INFORMATION RETRIEVAL Systems
MICRO WAVE AND RADAR ENGINEERING~30	MICROWAVE NETWORKS	RADAR SIGNAL PROCESSING	MICROWAVE SOLID STATE DEVICES	PHASED ARRAY SYSTEMS	ELECTIVE III SOFTWARE RADIO RF CIRCUIT DESIGN OPTICAL COMMUNICATION TECHNOLOGY	ELECTIVE IV SMART ANTENNAS DETECTION AND ESTIMATION THEORY		ELECTIVE IV WIRELESS COMMUNICATIONS AND NETWORKS
ADVANCED MANUFACTURING SYSTEMS~33	SIMULATION MODELING OF MANUFACTURING SYSTEMS	QUALITY ENGINEERING IN MANUFACTURING	PRODUCTION AND OPERATIONS MANAGEMENT	MATERIALS TECHNOLOGY	ELECTIVE III DESIGN AND MANUFACTURING OF MEMS AND MICRO SYSTEMS INDUSTRIAL ROBOTICS	ELECTIVE IV COMPUTATIONAL FLUID DYNAMICS PERFORMANCE MODELING AND ANALYSIS OF MANUFACTURING SYSTEMS	ELECTIVE III ADVANCED TOOL DESIGN	ELECTIVE IV INTELLIGENT MANUFACTURING SYSTEMS
COMPUTER AND COMMUNICATION ENGINEERING~36	WIRELESS COMMUNICATIONS AND NETWORKS	CODING THEORY AND TECHNIQUES	NETWORK SECURITY AND CRYPTOGRAPHY	ADVANCED COMPUTER NETWORKS	ELECTIVE III MOBILE COMPUTING TECHNOLOGIES ADVANCED COMPUTER ARCHITECTURE OPTICAL NETWORKS	ELECTIVE IV TELECOMMUNICATION SWITCHING SYSTEMS AND NETWORKS DATA BASE MANAGEMENT SYSTEMS OPTICAL COMMUNICATIONS TECHNOLOGY		
CONTROL ENGINEERING~37	OPTIMAL CONTROL THEORY	ADAPTIVE CONTROL THEORY	NEURAL NETWORKS & FUZZY SYSTEMS	CONTROL SYSTEM DESIGN	ELECTIVE III NON-LINEAR SYSTEMS PROCESS DYNAMICS AND CONTROL DISTRIBUTED CONTROL SYSTEMS	ELECTIVE IV INTELLIGENT AND KNOWLEDGE BASED SYSTEMS REAL TIME SYSTEMS ADVANCED DIGITAL SIGNAL PROCESSING		
DIGITAL ELECTRONICS AND COMMUNICATION SYSTEMS/ENGG~38	WIRELESS COMMUNICATIONS AND NETWORKS	ELECTIVE III SPEECH PROCESSING OPTICAL NETWORKS RADAR SIGNAL PROCESSING	OPTICAL COMMUNICATIONS TECHNOLOGY		IMAGE AND VIDEO PROCESSING	ELECTIVE IV DIGITAL SIGNAL PROCESSORS AND ARCHITECTURES NETWORK SECURITY AND CRYPTOGRAPHY SATELLITE COMMUNICATIONS		CODING THEORY AND TECHNIQUES
INFORMATION TECHNOLOGY~40		WEB SERVICES AND SERVICE ORIENTED ARCHITECTURE	ELECTIVE III EMBEDDED SYSTEMS SEMANTIC WEB AND SOCIAL NETWORKS MACHINE LEARNING	MOBILE APPLICATION DEVELOPMENT	INFORMATION SECURITY AND AUDIT	ELECTIVE IV SOFTWARE TESTING & QUALITY ASSURANCE BIO-INFORMATICS MOBILE COMMERCE	CLOUD COMPUTING	

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POWER AND INDUSTRIAL DRIVES~42	POWER ELECTRONIC CONVERTERS-II		POWER ELECTRONIC CONTROL OF AC DRIVES	NEURAL NETWORKS AND FUZZY SYSTEMS	ELECTIVE III / POWER QUALITY / DIGITAL CONTROL SYSTEMS / ADVANCED DIGITAL SIGNAL PROCESSING	ELECTIVE IV / HIGH-FREQUENCY MAGNETIC COMPONENTS / RENEWABLE ENERGY SYSTEMS / DYNAMICS OF ELECTRICAL MACHINES		FLEXIBLE AC TRANSMISSION SYSTEMS (FACTS)
POWER ELECTRONICS~43	POWER ELECTRONIC CONVERTERS-II		POWER ELECTRONIC CONTROL OF AC DRIVES	NEURAL NETWORKS AND FUZZY SYSTEMS	ELECTIVE III / DIGITAL CONTROL SYSTEMS	ELECTIVE IV / DYNAMICS OF ELECTRICAL MACHINES / HIGH-FREQUENCY MAGNETIC COMPONENTS / RENEWABLE ENERGY SYSTEMS	ELECTIV III / ADVANCED DIGITAL SIGNAL PROCESSING / POWER QUALITY	FLEXIBLE AC TRANSMISSION SYSTEMS (FACTS)
SYSTEMS & SIGNAL PROCESSING~45	ADAPTIVE SIGNAL PROCESSING		SPEECH PROCESSING	DIGITAL SIGNAL PROCESSORS AND ARCHITECTURES	ELECTIVE III / EMBEDDED REAL-TIME OPERATING SYSTEMS / AD-HOC AND WIRELESS SENSOR NETWORKS / CPLD AND FPGA ARCHITECTURES AND APPLICATION	ELECTIVE IV / DIGITAL CONTROL SYSTEMS / SYSTEM ON CHIP ARCHITECTURE / IMAGE AND VIDEO PROCESSING		CODING THEORY AND TECHNIQUES
GEO-INFORMATICS & SURVEYING TECHNOLOGY~47	DIGITAL PHOTOGRAMMETRY	GIS ANALYSIS AND APPLICATIONS	REMOTE SENSING APPLICATIONS	GNSS SURVEYING	GIS PROJECT PLANNING & MANAGEMENT	ELECTIVE II / ADVANCED GEO SPATIAL TECHNOLOGY / REMOTE SENSING AND GIS FOR URBAN PLANNING AND MANAGEMENT / REMOTE SENSING AND GIS FOR ENVIRONMENTAL ENGINEERING / DIGITAL IMAGE PROCESSING-II		
ELECTRICAL POWER ENGINEERING~49	POWER SYSTEM DYNAMICS		POWER SYSTEM OPERATION AND DEREGULATION	AI TECHNIQUES IN ELECTRICAL POWER ENGINEERING	ELECTIVE III / ENERGY AUDITING CONSERVATION AND MANAGEMENT / GAS INSULATED SYSTEMS(GIS) / ELECTRIC SMART GRID	ELECTIVE IV / VOLTAGE STABILITY / POWER SYSTEM RELIABILITY / REACTIVE POWER COMPENSATION AND MANAGEMENT		FLEXIBLE AC TRANSMISSION SYSTEMS (FACTS)
CHEMICAL ENGINEERING~51	SEPARATION PROCESSES	ADVANCED PROCESS CONTROL.	PROCESS MODELING & SIMULATION	ENVIRONMENTAL ENGINEERING	ELECTIVE III / BIOPROCESS ENGINEERING / NANOTECHNOLOGY / COLLOIDAL INTERFACIAL ENGINEERING	ELECTIVE IV / DESIGN & ANALYSIS OF EXPERIMENTS / INDUSTRIAL SAFETY / FLUIDIZATION ENGINEERING		
DESIGN FOR MANUFACTURING~52	DESIGN OF HYDRAULICS AND PNEUMATICS SYSTEMS	SIMULATION MODELING & ANALYSIS OF MANUFACTURING SYSTEM	COMPUTER AIDED MANUFACTURING	DESIGN AND MANUFACTURING OF MEMS AND MICRO SYSTEMS	ELECTIVE III / INDUSTRIAL ROBOTICS / PRODUCTION AND OPERATIONS MANAGEMENT / ADVANCED TOOL DESIGN	ELECTIVE IV / AUTOMATION IN MANUFACTURING / PERFORMANCE MODELING AND ANALYSIS OF MANUFACTURING SYSTEMS / COMPUTATIONAL FLUID DYNAMICS		

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POWER SYSTEM CONTROL AND AUTOMATION~53	POWER SYSTEM DYNAMICS		POWER SYSTEM OPERATION AND DEREGULATION	AI TECHNIQUES IN ELECTRICAL POWER ENGINEERING	ELECTIVE III ELECTRIC SMART GRID ENERGY AUDITING CONSERVATION AND MANAGEMENT GAS INSULATED SYSTEMS(GIS)	ELECTIVE IV POWER SYSTEM RELIABILITY VOLTAGE STABILITY REACTIVE POWER COMPENSATION AND MANAGEMENT		FLEXIBLE AC TRANSMISSION SYSTEMS (FACTS)
POWER ELECTRONICS AND ELECTRIC DRIVES~54	POWER ELECTRONIC CONVERTERS-II		POWER ELECTRONIC CONTROL OF AC DRIVES	NEURAL NETWORKS AND FUZZY SYSTEMS	ELECTIVE III DIGITAL CONTROL SYSTEMS ADVANCED DIGITAL SIGNAL PROCESSING	ELECTIVE IV HIGH-FREQUENCY MAGNETIC COMPONENTS RENEWABLE ENERGY SYSTEMS DYNAMICS OF ELECTRICAL MACHINES	ELECTIVE III POWER QUALITY	FLEXIBLE AC TRANSMISSION SYSTEMS (FACTS)
EMBEDDED SYSTEMS~55	HARDWARE SOFTWARE CO-DESIGN	DIGITAL SIGNAL PROCESSORS AND ARCHITECTURES		EMBEDDED NETWORKING	ELECTIVE III SENSORS AND ACTUATORS NETWORK SECURITY AND CRYPTOGRAPHY	ELECTIVE IV SYSTEM ON CHIP ARCHITECTURE WIRELESS LANS AND PANS MULTIMEDIA AND SIGNAL CODING	CPLD AND FPGA ARCHITECTURES AND APPLICATIONS	ELECTIVE III WIRELESS COMMUNICATIONS AND NETWORKS
POWER SYSTEM (HIGH VOLTAGE)~56	HIGH VOLTAGE TESTING TECHNOLOGY	EHV AC TRANSMISSION	SURGE PHENOMENA AND INSULATION COORDINATION	ADVANCED POWER SYSTEM PROTECTION	ELECTIVE III POWER SYSTEM TRANSIENTS PROGRAMMABLE LOGIC CONTROLLERS AND THEIR APPLICATIONS PARTIAL DISCHARGE IN HIGH VOLTAGE EQUIPMENT	ELECTIVE IV HV TRANSFORMERS PULSE POWER ENGINEERING ADVANCED EM FIELDS		
VLSI SYSTEM DESIGN / VLSI DESIGN~57		CMOS MIXED SIGNAL CIRCUIT DESIGN	CAD FOR VLSI CIRCUITS	ELECTIVE III DIGITAL SIGNAL PROCESSORS AND ARCHITECTURES	ELECTIVE III SCRIPTING LANGUAGES VLSI SIGNAL PROCESSING	ELECTIVE IV OPTIMIZATION TECHNIQUES IN VLSI DESIGN SYSTEM ON CHIP ARCHITECTURE SEMICONDUCTOR MEMORY DESIGN AND TESTING	LOW POWER VLSI DESIGN	DESIGN FOR TESTABILITY
COMPUTER SCIENCE ENGINEERING~58	ADVANCED NETWORK PROGRAMMING	WEB SERVICES AND SERVICE ORIENTED ARCHITEC3TU RE	ELECTIVE IV WIRELESS NETWORKS AND MOBILE COMPUTING	ELECTIVE IV SEMANTIC WEB AND SOCIAL NETWORKS	ELECTIVE III DATABASE SECURITY ADVANCED DATA MINING STORAGE AREA NETWORKS	GRID AND CLOUD COMPUTING	ADVANCED DATABASES	ELECTIVE IV INFORMATION RETRIEVAL SYSTEMS
COMMUNICATION SYSTEMS~61	WIRELESS LANS AND PANS	CODING THEORY AND TECHNIQUES	OPTICAL COMMUNICATIONS TECHNOLOGY	TCP/IP AND ATM NETWORKS	ELECTIVE III OPTICAL NETWORKS MOBILE COMPUTING TECHNOLOGIES AD-HOC AND WIRELESS SENSOR NETWORKS	ELECTIVE IV NETWORK SECURITY AND CRYPTOGRAPHY SOFTWARE RADIO PROPAGATION MODELS FOR WIRELESS COMMUNICATIONS		

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WEB TECHNOLOGIES~62	WEB SECURITY	WEB SERVICES AND SERVICE ORIENTED ARCHITECTURE	SEMANTIC WEB & SOCIAL NETWORKS	SCRIPTING LANGUAGES	ELECTIVE III MULTIMEDIA AND RICH INTERNET APPLICATIONS STORAGE AREA NETWORKS ADVANCED DATA MINING	ELECTIVE IV BUSINESS INTELLIGENCE & BIG DATA SOFTWARE ARCHITECTURE AND DESIGN PATTERNS INFORMATION RETRIEVAL SYSTEMS		
IMAGE PROCESSING~63	REMOTE SENSING & GIS	NEURAL NETWORKS	ROBOTICS AND MACHINE VISION	PARALLEL ALGORITHMS	ELECTIVE III BIOMETRICS DATA MINING RADAR IMAGING	ELECTIVE IV MULTIMEDIA DATABASES GENETIC ALGORITHMS STORAGE AREA NETWORKS		
POWER ENGINEERING AND ENERGY SYSTEMS~64	POWER SYSTEM DYNAMICS		POWER SYSTEM OPERATION AND DEREGULATION	AI TECHNIQUES IN ELECTRICAL POWER ENGINEERING	ELECTIVE III ENERGY AUDITING CONSERVATION AND MANAGEMENT GAS INSULATED SYSTEMS(GIS) ELECTRIC SMART GRID	ELECTIVE IV VOLTAGE STABILITY POWER SYSTEM RELIABILITY REACTIVE POWER COMPENSATION AND MANAGEMENT		FLEXIBLE AC TRANSMISSION SYSTEMS (FACTS)
WIRELESS AND MOBILE COMMUNICATION~65	WIRELESS COMMUNICATIONS & NETWORKS	CODING THEORY AND TECHNIQUES	OPTICAL COMMUNICATIONS TECHNOLOGY	TELECOMMUNICATION SWITCHING SYSTEMS AND NETWORKS WIRELESS LANS AND PANS	ELECTIVE III MOBILE COMPUTING TECHNOLOGIES OPTICAL NETWORKS AD-HOC AND WIRELESS SENSOR NETWORKS	ELECTIVE IV PROPAGATION MODELS FOR WIRELESS COMMUNICATIONS SOFTWARE RADIO	ELECTIVE IV NETWORK SECURITY AND CRYPTOGRAPHY	
NANO TECHNOLOGY~66	MATERIAL CHARACTERIZATION TECHNIQUES	CARBON NANOTUBES AND APPLICATIONS	NANO COMPOSITES – DESIGN AND SYNTHESIS	ELECTIVE-III MICRO/NANO FABRICATION	ELECTIVE I NANO ELECTRONICS AND NANO PHOTONICS ACTUATORS AND SENSORS MEMS/NEMS DESIGN AND APPLICATION	ELECTIVE II STRENGTHENING MECHANISMS WITH NANOMATERIALS NANOTECHNOLOGY FOR ENERGY SYSTEMS ENVIRONMENTAL NANO TECHNOLOGY		
VLSI AND EMBEDDED SYSTEMS~68	EMBEDDED C	CMOS MIXED SIGNAL CIRCUIT DESIGN	EMBEDDED REAL TIME OPERATING SYSTEMS	ELECTIVE III DIGITAL SIGNAL PROCESSORS AND ARCHITECTURES	ELECTIVE III SYSTEM ON CHIP ARCHITECTURE EMBEDDED NETWORKING	ELECTIVE IV SEMICONDUCTOR MEMORY DESIGN AND TESTING SENSORS AND ACTUATORS	ELECTIVE IV LOW POWER VLSI DESIGN	DESIGN FOR TESTABILITY
NEURAL NETWORKS ~69	PATTERN RECOGNITION	GENETIC ALGORITHMS	DATA MINING	NATURAL LANGUAGE PROCESSING	ELECTIVE III WEB SERVICES JAVA & WEB TECHNOLOGIES SEMANTIC WEB AND SOCIAL NETWORKS	ELECTIVE IV DISTRIBUTED SYSTEMS INFORMATION RETRIEVAL SYSTEMS INFORMATION SECURITY		
ELECTRONICS AND COMMUNICATION ENGINEERING~70	WIRELESS COMMUNICATIONS AND NETWORKS	ELECTIVE III OPTICAL NETWORKS RADAR SIGNAL PROCESSING SPEECH PROCESSING	OPTICAL COMMUNICATIONS TECHNOLOGY		IMAGE AND VIDEO PROCESSING	ELECTIVE IV SATELLITE COMMUNICATIONS DIGITAL SIGNAL PROCESSORS AND ARCHITECTURES NETWORK SECURITY AND CRYPTOGRAPHY		CODING THEORY AND TECHNIQUES

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PARALLEL COMPUTING~74	DISTRIBUTED DATABASES	INFORMATION SECURITY	ADHOC AND SENSOR NETWORKS	GRID AND CLOUD COMPUTING	ELECTIVE III PATTERN RECOGNITION DATA MINING MACHINE LEARNING	ELECTIVE IV ADVANCED COMPUTER NETWORKS PERVASIVE COMPUTING STORAGE AREA NETWORKS		
CONTROL SYSTEMS~75	OPTIMAL CONTROL THEORY	ADAPTIVE CONTROL THEORY	CONTROL SYSTEM DESIGN	NEURAL NETWORKS & FUZZY SYSTEMS	ELECTIVE III DISTRIBUTED CONTROL SYSTEMS PROCESS DYNAMICS AND CONTROL	ELECTIVE IV REAL TIME SYSTEMS INTELLIGENT AND KNOWLEDGE BASED SYSTEMS	ELECTIVE IV ADVANCED DIGITAL SIGNAL PROCESSING	ELECTIVE III NON-LINEAR SYSTEMS
AEROSPACE ENGINEERING~76	AIRCRAFT CONTROL AND SIMULATION	SPACE TRANSPORTATION SYSTEMS	COMPUTATIONAL APPROACHES TO AEROSPACE VEHICLE DESIGN	AEROSPACE SENSORS AND MEASUREMENT SYSTEMS	ELECTIVE III SPACECRAFT DYNAMICS AND CONTROL MISSILE GUIDANCE AERO-THERMODYNAMICS OF HYPERSONIC FLIGHT ADVANCED TOPICS IN AIR TRAFFIC MANAGEMENT SYSTEMS DYNAMICS AND CONTROL OF STRUCTURES	ELECTIVE IV TACTICAL MISSILE DESIGN ROCKET AND SPACECRAFT PROPULSION OPTIMAL CONTROL HIGH ANGLE OF ATTACK AERODYNAMICS MECHANICS OF COMPOSITE MATERIALS		
EMBEDDED SYSTEMS & VLSI DESIGN~77	EMBEDDED C	CMOS MIXED SIGNAL CIRCUIT DESIGN	EMBEDDED REAL TIME OPERATING SYSTEMS	ELECTIVE III DIGITAL SIGNAL PROCESSORS AND ARCHITECTURES	ELECTIVE III EMBEDDED NETWORKING SYSTEM ON CHIP ARCHITECTURE	ELECTIVE IV SEMICONDUCTOR MEMORY DESIGN AND TESTING SENSORS AND ACTUATORS	ELECTIVE IV LOW POWER VLSI DESIGN	DESIGN FOR TESTABILITY
COMPUTER NETWORKS AND INFORMATION SECURITY~78	WIRELESS NETWORKS AND MOBILE COMPUTING	APPLICATIONS OF NETWORK SECURITY	INFORMATION SECURITY MANAGEMENT AND STANDARD	AD HOC AND SENSOR NETWORKS	ELECTIVE III WIRELESS SECURITY DATABASE SECURITY MOBILE APPLICATION DEVELOPMENT USING J2ME AND ANDROID	ELECTIVE IV SEMANTIC WEB AND SOCIAL NETWORKS NETWORK MANAGEMENT SYSTEMS	ELECTIVE-IV CLOUD COMPUTING	
MECHATRONICS~80	MICRO CONTROLLER & APPLICATIONS	FUZZY LOGIC & NEURAL NETWORKS		INDUSTRIAL ROBOTICS	ELECTIVE III SIMULATION MODELING OF MANUFACTURING SYSTEMS INTELLIGENT MANUFACTURING SYSTEMS DESIGN FOR MANUFACTURE & ASSEMBLY	ELECTIVE IV AUTOTRONICS & VEHICLE INTELLIGENCE COMPUTER AIDED METROLOGY & MACHINE VISION ENTREPRENEURSHIP	MEMS	
INFRASTRUCTURE ENGG~81	WASTE MANAGEMENT SYSTEMS	FINITE ELEMENT METHOD	RETAINING STRUCTURES	URBAN/REGIONAL TRANSPORTATION ANALYSIS AND PLANNING METHODS	ELECTIVE III/IV CONSTRUCTION MANAGEMENT II REHABILITATION AND RETROFITTING OF STRUCTURES PRINCIPLES OF BRIDGE ENGINEERING	ELECTIVE III/IV EARTHQUAKE RESISTANT DESIGN OF STRUCTURES GIS BASICS OF STRUCTURAL ENGINEERING	ELECTIVE III/IV ENGINEERING OF GROUND INTEGRATED WATER RESOURCES MANAGEMENT	ELECTIVE III/IV PROJECT PLANNING AND FINANCIAL MANAGEMENT

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COMPUTER NETWORKS~82	WIRELESS NETWORKS	MOBILE COMPUTING	DISTRIBUTED SYSTEMS	AD HOC AND SENSOR NETWORKS	ELECTIVE III STORAGE AREA NETWORKS DIGITAL IMAGE PROCESSING	ELECTIVE IV NETWORK MANAGEMENT & PERFORMANCE EVOLUTION E-COMMERCE WEB SERVICES		INFORMATION RETRIEVAL SYSTEMS
REAL TIME SYSTEMS~84	EMBEDDED LINUX PROGRAMMING	EMBEDDED SYSTEMS DEVELOPMENT	EMBEDDED REAL TIME OPERATING SYSTEMS	SCRIPTING LANGUAGES	ELECTIVE III LOW POWER VLSI DESIGN CASE STUDIES IN REAL TIME APPLICATIONS MOBILE COMPUTING	ELECTIVE IV INFORMATION SECURITY NEURAL NETWORKS QUALITY ASSURANCE IN RTS		
HIGH VOLTAGE ENGINEERING~85	HIGH VOLTAGE TESTING TECHNOLOGY	EHV AC TRANSMISSION	SURGE PHENOMENA AND INSULATION COORDINATION	ADVANCED POWER SYSTEM PROTECTION	ELECTIVE III PROGRAMMABLE LOGIC CONTROLLERS AND THEIR APPLICATIONS POWER SYSTEM TRANSIENTS PARTIAL DISCHARGE IN HIGH VOLTAGE EQUIPMENT	ELECTIVE IV ADVANCED EM FIELDS HV TRANSFORMERS PULSE POWER ENGINEERING		
HIGHWAY ENGINEERING~87	TRAFFIC ANALYSIS		HIGHWAY PROJECT FORMULATION AND ECONOMICS	PAVEMENT ANALYSIS AND DESIGN	ELECTIVE III LAND USE AND TRANSPORTATION MODELING TRANSPORTATION SYSTEM MANAGEMENT ROAD SAFETY ENGINEERING	ELECTIVE IV ENVIRONMENTAL IMPACT ASSESSMENT FOR TRANSPORTATION PROJECTS	PAVEMENT CONSTRUCTION MAINTENANCE & MANAGEMENT	ELECTIVE IV GIS APPLICATIONS IN TRANSPORTATION ENGINEERING OPTIMIZATION TECHNIQUES
ELECTRONICS & INSTRUMENTATION~88	DATA ACQUISITION SYSTEM	QUALITY & RELIABILITY ENGINEERING IN ELECTRONIC SYSTEM	ROBOTICS DESIGN AND CONTROL	VIRTUAL INSTRUMENTATION	ELECTIVE III INDUSTRIAL INSTRUMENTATION SYSTEM ON CHIP ARCHITECTURES	ELECTIVE IV MEMS & APPLICATIONS PLC & ITS APPLICATIONS FIBER OPTIC AND LASER INSTRUMENTATION	ELECTIVE III ADVANCED DIGITAL SIGNAL. PROCESSING	
AUTOMATION (MECHANICAL)~89	FLUID POWER SYSTEMS	MICROPROCESSOR & APPLICATIONS	INTELLIGENT INSTRUMENTATION & MANUFACTURING	INDUSTRIAL ROBOT TECHNOLOGY	ELECTIVE III QUALITY ENGINEERING IN MANUFACTURING ADVANCED OPTIMIZATION TECHNIQUE &APPLICATIONS NEURAL NETWORK & FUZZY LOGIC	ELECTIVE IV DESIGN FOR MANUFACTURING & ASSEMBLY SMART MATERIALS & STRUCTURES VIBRATION ANALYSIS & CONDITION MONITORING		
HEATING VENTILATION & AIR CONDITIONING~91	AIR-CONDITIONING -II	ELECTIVE III ENERGY MANAGEMENT	ADVANCE INSTRUMENTATION CONTROL SYSTEMS	REFRIGERATION &A/C EQUIPMENTS & CONTROL	ELECTIVE III ADVANCED FINITE ELEMENT ANALYSIS EQUIPMENT DESIGN FOR THERMAL SYSTEMS	ELECTIVE IV TURBO MACHINES CRYOGENIC ENGINEERING THERMAL AND NUCLEAR POWER PLANTS		ADVANCED HEAT AND MASS TRANSFER

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SYSTEMS AND SIGNAL PROCESSING~93	ADAPTIVE SIGNAL PROCESSING		SPEECH PROCESSING	DIGITAL SIGNAL PROCESSORS AND ARCHITECTURES	ELECTIVE III CPLD AND FPGA ARCHITECTURES AND APPLICATION EMBEDDED REAL-TIME OPERATING SYSTEMS AD-HOC AND WIRELESS SENSOR NETWORKS	ELECTIVE IV IMAGE AND VIDEO PROCESSING SYSTEM ON CHIP ARCHITECTURE DIGITAL CONTROL SYSTEMS		CODING THEORY AND TECHNIQUES
ENGINEERING DESIGN~95	ADVANCED MACHINE DESIGN	DESIGN FOR MANUFACTURING AND ASSEMBLY	FINITE ELEMENT AND BOUNDARY ELEMENT METHODS	INDUSTRIAL ROBOTICS	ELECTIVE III MATERIALS HANDLING EQUIPMENT DESIGN APPLIED RANDOM VIBRATIONS FRACTURE MECHANICS PRODUCT DATA MANAGEMENT APPLIED TRIBOLOGY	ELECTIVE IV NANO COMPOSITES DESIGN AND SYNTHESIS VEHICLE DYNAMICS DIGITAL IMAGE PROCESSING AND COMPUTER VISION ADVANCED TOOL DESIGN ADVANCED MECHANICS OF COMPOSITE MATERIALS		
AERONAUTICAL ENGINEERING~97	AIRCRAFT CONTROL AND SIMULATION	SPACE TRANSPORTATION SYSTEMS	COMPUTATIONAL APPROACHES TO AEROSPACE VEHICLE DESIGN	AEROSPACE SENSORS AND MEASUREMENT SYSTEMS	ELECTIVE III SPACECRAFT DYNAMICS AND CONTROL MISSILE GUIDANCE AERO-THERMODYNAMICS OF HYPERSONIC FLIGHT ADVANCED TOPICS IN AIR TRAFFIC MANAGEMENT SYSTEMS DYNAMICS AND CONTROL OF STRUCTURES	ELECTIVE IV TACTICAL MISSILE DESIGN HIGH ANGLE OF ATTACK AERODYNAMICS MECHANICS OF COMPOSITE MATERIALS ROCKET AND SPACECRAFT PROPULSION OPTIMAL CONTROL		
POWERPLANT ENGINEERING AND ENERGY MANAGEMENT~99	ADVANCED POWER PLANT ENGINEERING	POWER PLANT INSTRUMENTATION	POWER PLANT MAINTENANCE	ENERGY CONSERVATION	EQUIPMENT DESIGN FOR THERMAL SYSTEMS	ELECTIVE III POWER DISTRIBUTION SYSTEM ENVIRONMENT & SAFETY ENGINEERING POWER PLANT PERFORMANCE MONITORING & TESTING POWER PLANT PROTECTION & SWITCH GEAR		
ELECTRONICS DESIGN TECHNOLOGY~A0	EMBEDDED C	CMOS MIXED SIGNAL CIRCUIT DESIGN	EMBEDDED REAL TIME OPERATING SYSTEMS	DESIGN FOR TESTABILITY	ELECTIVE III DIGITAL SIGNAL PROCESSORS AND ARCHITECTURES SYSTEM ON CHIP ARCHITECTURE EMBEDDED NETWORKING	ELECTIVE IV SENSORS AND ACTUATORS SEMICONDUCTOR MEMORY DESIGN AND TESTING LOW POWER VLSI DESIGN		
CONSTRUCTION MANAGEMENT~A1	CONSTRUCTION METHODS AND EQUIPMENT	CONSTRUCTION AND CONTRACT MANAGEMENT	CONSTRUCTION ECONOMICS AND FINANCE	ELECTIVE III/IV BUILDING SERVICES	ELECTIVE III/IV UNDER WATER CONSTRUCTION. STRATEGIC MANAGEMENT IN CONSTRUCTION.	ELECTIVE III/IV CRITICAL CHAIN MANAGEMENT. GEO-ENVIRONMENTAL ENGINEERING.	ELECTIVE III/IV ADVANCED CONCRETE TECHNOLOGY	CIVIL ENGINEERING MATERIALS AND RECENT ADVANCES

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CYBER FORENSIC INFORMATION SECURITY~A2	SOFTWARE VULNERABILITY ANALYSIS	INTRUSION DETECTION AND PREVENTION SYSTEMS	CYBER CRIME INVESTIGATIONS AND DIGITAL FORENSICS	CYBER LAWS AND SECURITY POLICIES	ELECTIVE III SECURITY THREATS DIGITAL WATERMARKING AND STEGANOGRAPHY INFORMATION THEORY AND CODING	ELECTIVE IV DISTRIBUTED SYSTEMS SECURITY INTELLECTUAL PROPERTY RIGHTS NETWORK PROGRAMMING		
CYBER SECURITY~A3	SOFTWARE VULNERABILITY ANALYSIS	INTRUSION DETECTION AND PREVENTION SYSTEMS	CYBER CRIME INVESTIGATIONS AND DIGITAL FORENSICS	CYBER LAWS AND SECURITY POLICIES	ELECTIVE III DIGITAL WATERMARKING AND STEGANOGRAPHY INFORMATION THEORY AND CODING SECURITY THREATS	ELECTIVE IV INTELLECTUAL PROPERTY RIGHTS DISTRIBUTED SYSTEMS SECURITY NETWORK PROGRAMMING		
BIOMEDICAL SIGNAL PROCESSING INSTRUMENTATION~A4	ELECTIVE III ADAPTIVE SIGNAL PROCESSING	ADVANCED MEDICAL IMAGING	FIBER OPTICS AND LASER INSTRUMENTATION	DIGITAL SIGNAL PROCESSORS AND ARCHITECTURES	ELECTIVE III DESIGN AND ANALYSIS OF SIGNAL CONDITIONING CIRCUITS SENSORS AND ACTUATORS	ELECTIVE IV BIOMEMS AND NANOTECHNOLOGY SPEECH PROCESSING REHABILITATION ENGINEERING	ADVANCED BIOMEDICAL SIGNAL PROCESSING	
VLSI DESIGN~A5	LOW POWER VLSI DESIGN	CMOS MIXED SIGNAL CIRCUIT DESIGN	CAD FOR VLSI CIRCUITS	DESIGN FOR TESTABILITY	ELECTIVE III VLSI SIGNAL PROCESSING SCRIPTING LANGUAGES DIGITAL SIGNAL PROCESSORS AND ARCHITECTURES	ELECTIVE IV SYSTEM ON CHIP ARCHITECTURE SEMICONDUCTOR MEMORY DESIGN AND TESTING OPTIMIZATION TECHNIQUES IN VLSI DESIGN		

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