

# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY - HYDERABAD – 5000 85

EXAMINATION BRANCH

**III YEAR B.TECH – II SEMESTER– R16 REGULATION I - MID TERM EXAMINATIONS FEBRUARY -2020**

T I M E T A B L E

TIME → FN: 10.00 AM TO 11.30 AM

AN: 02.00 PM TO 03.30 PM

BRANCH	10-02-2020 FN MONDAY	10-02-2020 AN MONDAY	11-02-2020 FN TUESDAY	11-02-2020 AN TUESDAY	12-02-2020 FN WEDNESDAY
<b>CIVIL ENGINEERING  (01-CE)</b>	Design of Steel Structures (Common to CE ,CEE)	Environmental Engineering	Soil Mechanics	<b>Professional Elective - I</b>	<u><b>(Open Elective-I)</b></u>
				Air Pollution and Control.	Artificial Neural Networks Cyber Security Coal Gasification, Coal Bed Methane and Shale Gas
				Advanced Structural Analysis.	Data Structures Design Estimation and Costing of Electrical Systems
				Ground Water Development and Management	Energy Management and Conservation Environmental Impact Assessment Energy Storage Systems Entrepreneurship and Small Business Enterprises
				Earth and Rock fill Dams and Slope Stability	Fabrication Processes Fundamentals of Robotics Industrial Electronics Industrial Management Introduction to Aerospace Engineering Introduction to Material Handling Introduction to Mechatronics Java Programming Medical Electronics Metallurgy of Non Metallurgists Non-Conventional Energy Sources Optimization Technique Principles of Computer Communications and Networks Robotics Software Testing Methodologies Soft Computing Techniques Science and Technology of Nano Materials World Class Manufacturing

Date: 04-02-2020

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BRANCH	10-02-2020 FN MONDAY	10-02-2020 AN MONDAY	11-02-2020 FN TUESDAY	11-02-2020 AN TUESDAY	12-02-2020 FN WEDNESDAY
<b>ELECTRICAL AND ELECTRONICS ENGINEERING</b>  (02-EEE)	Power Systems Analysis	Power Electronics	Switch Gear and Protection	<b>Professional Elective - I</b>	<b><u>(Open Elective-I)</u></b>
					Artificial Neural Networks
				Computer Organization	Cyber Security
					Coal Gasification, Coal Bed Methane and Shale Gas
					Data Structures
				Linear Systems Analysis	Energy Management and Conservation
					Environmental Impact Assessment
					Entrepreneurship and Small Business Enterprises
				Linear and Digital IC Applications	Geo-Informatics
					Fabrication Processes
				Electrical and Electronics Instrumentation	Fundamentals of Robotics
					Industrial Electronics
					Industrial Management
					Introduction to Aerospace Engineering
					Introduction to Material Handling
					Intellectual Property Rights
					Java Programming
					Medical Electronics
					Metallurgy of Non Metallurgists
					Non-Conventional Energy Sources
	Optimization Technique				
	Principles of Computer Communications and Networks				
	Science and Technology of Nano Materials				
	Robotics				
	Remote Sensing and GIS				
	Software Testing Methodologies				
	Soft Computing Techniques				
	World Class Manufacturing				

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<b>MECHANICAL ENGINEERING</b>  <b>(03-ME)</b>	Thermal Engineering –II  (Common to ME ,AME)	Heat Transfer	Design of Machine Members-II	<b>Professional Elective - I</b>	<b>(Open Elective-I)</b> Artificial Neural Networks
				Finite Element Methods	Cyber Security Coal Gasification, Coal Bed Methane and Shale Gas
				Refrigeration and Air Conditioning	Data Structures
					Design Estimation and Costing of Electrical Systems
					Energy Management and Conservation
				Machine Tool Design	Environmental Impact Assessment
					Entrepreneurship and Small Business Enterprises
					Energy Storage Systems Geo-Informatics
				IC Engines and Gas Turbines	Industrial Electronics
					Introduction to Mechatronics
					Industrial Management
					Introduction to Aerospace Engineering
					Introduction to Material Handling
					Intellectual Property Rights
					Java Programming
					Medical Electronics
					Metallurgy of Non Metallurgists
					Non-Conventional Energy Sources
					Optimization Technique
					Principles of Computer Communications and Networks
Robotics					
Remote Sensing and GIS					
Software Testing Methodologies					
Soft Computing Techniques					
Science and Technology of Nano Materials					

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BRANCH	10-02-2020 FN MONDAY	10-02-2020 AN MONDAY	11-02-2020 FN TUESDAY	11-02-2020 AN TUESDAY	12-02-2020 FN WEDNESDAY
<b>ELECTRONICS AND COMMUNICATION ENGINEERING</b>  <b>(04-ECE)</b>	Antennas and Wave Propagation (Common to ECE ,ETM )	Microprocessors and Microcontrollers (Common to ECE , ETM E.COMP.E )	Digital Signal Processing (Common to ECE ,EIE, ETM, BME, E.COMP.E)	<b>Professional Elective - I</b>	<b>(Open Elective-I)</b> Artificial Neural Networks Cyber Security
				Computer organization and operating system	Coal Gasification, Coal Bed Methane and Shale Gas Data Structures Design Estimation and Costing of Electrical Systems
				Digital Image Processing	Energy Management and Conservation Environmental Impact Assessment Entrepreneurship and Small Business Enterprises
				Spread Spectrum Communications	Energy Storage Systems Geo-Informatics Fabrication Processes
				Digital system Design	Fundamentals of Robotics Industrial Electronics Industrial Management Introduction to Mechatronics Introduction to Aerospace Engineering Introduction to Material Handling Intellectual Property Rights Java Programming Medical Electronics Metallurgy of Non Metallurgists Non-Conventional Energy Sources Optimization Technique Remote Sensing and GIS Robotics Science and Technology of Nano Materials Soft Computing Techniques Software Testing Methodologies World Class Manufacturing

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BRANCH	10-02-2020 FN MONDAY	10-02-2020 AN MONDAY	11-02-2020 FN TUESDAY	11-02-2020 AN TUESDAY	12-02-2020 FN WEDNESDAY
<b>COMPUTER SCIENCE AND ENGINEERING</b>  (05-CSE)	Compiler Design  (Common to CSE , IT)	Web Technologies (Common to CSE , IT)	Cryptography and Network Security (Common to CSE , IT)	<b>Professional Elective - I</b>	<b>(Open Elective-I)</b> Artificial Neural Networks
				Mobile Computing	Coal Gasification, Coal Bed Methane and Shale Gas
				Design Patterns	Data Structures
					Design Estimation and Costing of Electrical Systems
				Artificial Intelligence	Energy Management and Conservation
					Environmental Impact Assessment
					Entrepreneurship and Small Business Enterprises
				Information Security Management (Security Analyst - I)	Energy Storage Systems
					Geo-Informatics
					Fabrication Processes
					Fundamentals of Robotics
				Introduction to Analytics (Associate Analytics - I)	Industrial Electronics
					Industrial Management
					Introduction to Aerospace Engineering
					Introduction to Material Handling
					Intellectual Property Rights
					Introduction to Mechatronics
	Medical Electronics				
	Metallurgy of Non Metallurgists				
	Non-Conventional Energy Sources				
	Optimization Technique				
	Principles of Computer Communications and Networks				
	Remote Sensing and GIS				
	Robotics				
	Science and Technology of Nano Materials				
	Soft Computing Techniques				
	World Class Manufacturing				

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<b>ELECTRONICS AND INSTRUMENTATION ENGINEERING</b>  <b>(10-EIE)</b>	Process Dynamics and Control	Analytical Instrumentation	Digital Signal Processing Common to (ECE ,EIE, ETM, BME, E.COMP.E)	<b>Professional Elective - I</b>	<b>(Open Elective-I)</b>
					Artificial Neural Networks
					Coal Gasification, Coal Bed Methane and Shale Gas
					Data Structures
					Principles of Communications
					Cyber Security
					Design Estimation and Costing of Electrical Systems
					Virtual Instrumentation
					Energy Management and Conservation
					Environmental Impact Assessment
					Object Oriented Programming through JAVA
					Entrepreneurship and Small Business Enterprises
					Energy Storage Systems
					Hydraulic And Pneumatic Control Systems
					Geo-Informatics
					Fabrication Processes
					Fundamentals of Robotics
					Industrial Management
					Introduction to Aerospace Engineering
					Introduction to Material Handling
					Intellectual Property Rights
					Introduction to Mechatronics
					Java Programming
					Medical Electronics
					Metallurgy of Non Metallurgists
Non-Conventional Energy Sources					
Optimization Technique					
Introduction to Mechatronics					
Principles of Computer Communications and Networks					
Remote Sensing and GIS					
Robotics					
Science and Technology of Nano Materials					
Soft Computing Techniques					
Software Testing Methodologies					
World Class Manufacturing					

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BRANCH	10-02-2020 FN MONDAY	10-02-2020 AN MONDAY	11-02-2020 FN TUESDAY	11-02-2020 AN TUESDAY	12-02-2020 FN WEDNESDAY
<b>BIO-MEDICAL ENGINEERING (11-BME)</b>	Biomedical Signal Processing	Biofluid Mechanics	Digital Signal Processing  Common to (ECE ,EIE, ETM, BME, E.COMP.E)	<b>Professional Elective - I</b>	<b>(Open Elective-I)</b> Artificial Neural Networks
					Coal Gasification, Coal Bed Methane and Shale Gas
				Laser and Fiber Optic Instrumentation	Data Structures
					Cyber Security
					Metallurgy of Non Metallurgists
				Biological Control Systems	Design Estimation and Costing of Electrical Systems
					Energy Management and Conservation
				VLSI Design	Environmental Impact Assessment
					Entrepreneurship and Small Business Enterprises
				General Surgery and Radiology	Energy Storage Systems
					Geo-Informatics
					Fabrication Processes
					Fundamentals of Robotics
					Industrial Electronics
					Industrial Management
					Introduction to Aerospace Engineering
					Introduction to Material Handling
					Intellectual Property Rights
					Introduction to Mechatronics
					Java Programming
	Non-Conventional Energy Sources				
	Optimization Technique				
	Principles of Computer Communications and Networks				
	Remote Sensing and GIS				
	Robotics				
	Software Testing Methodologies				
	Science and Technology of Nano Materials				
	Soft Computing Techniques				
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<b>INFORMATION TECHNOLOGY</b>  (12- I T)	Compiler Design  (Common to CSE , IT)	Web Technologies (Common to CSE , IT)	Cryptography and Network Security (Common to CSE , IT)	<b>Professional Elective - I</b>	<b>(Open Elective-I)</b> Artificial Neural Networks Coal Gasification, Coal Bed Methane and Shale Gas
				Mobile Computing	Data Structures
				Object Oriented Analysis and Design	Design Estimation and Costing of Electrical Systems Energy Management and Conservation Environmental Impact Assessment
				Computer Forensics	Entrepreneurship and Small Business Enterprises
				Information Security Management (Security Analyst - I)	Energy Storage Systems Geo-Informatics Fabrication Processes Fundamentals of Robotics Industrial Electronics
				Introduction to Analytics (Associate Analytics - I)	Industrial Management Introduction to Aerospace Engineering Introduction to Material Handling Intellectual Property Rights
					Introduction to Mechatronics Medical Electronics Metallurgy of Non Metallurgists Non-Conventional Energy Sources Optimization Technique Principles of Computer Communications and Networks Remote Sensing and GIS Robotics Science and Technology of Nano Materials Soft Computing Techniques World Class Manufacturing

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<b>MECHANICAL ENGINEERING (MECHATRONICS)</b>  <b>(14-MECT)</b>	Dynamics of Machinery	Motion Control Design	CAD/CAM	<b>Professional Elective - I</b>	<b>(Open Elective-I)</b> Cyber Security
				Machine Drawing	Coal Gasification, Coal Bed Methane and Shale Gas
				Total Quality Management	Design Estimation and Costing of Electrical Systems Energy Management and Conservation
				Unconventional Machining Processes	Environmental Impact Assessment Entrepreneurship and Small Business Enterprises Energy Storage Systems Geo-Informatics
				Nanotechnology	Fabrication Processes Fundamentals of Robotics Industrial Electronics Introduction to Aerospace Engineering Introduction to Material Handling Introduction to Mechatronics Intellectual Property Rights Java Programming Medical Electronics Metallurgy of Non Metallurgists Non-Conventional Energy Sources Optimization Technique Principles of Computer Communications and Networks Remote Sensing and GIS Robotics Science and Technology of Nano Materials Soft Computing Techniques Software Testing Methodologies World Class Manufacturing

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<b>ELECTRONICS AND TELEMATICS ENGINEERING (17-ETM)</b>	Antennas and Wave Propagation (Common to ECE ,ETM )	Microprocessors and Microcontrollers (Common to ECE , ETM E.COMP.E )	Digital Signal Processing (Common to ECE ,EIE, ETM, BME, E.COMP.E)	<b>Professional Elective - I</b>	<b>(Open Elective-I)</b> Artificial Neural Networks
				Computer organization and operating system	Cyber Security Coal Gasification, Coal Bed Methane and Shale Gas
				Electronic Measurements and Instrumentation	Data Structures Design Estimation and Costing of Electrical Systems Energy Management and Conservation Environmental Impact Assessment
				Spread Spectrum Communications	Entrepreneurship and Small Business Enterprises Energy Storage Systems Geo-Informatics Fabrication Processes
				Digital system Design	Fundamentals of Robotics
				Antennas and Wave Propagation	Industrial Management Introduction to Aerospace Engineering Introduction to Material Handling Introduction to Mechatronics Intellectual Property Rights Java Programming Medical Electronics Metallurgy of Non Metallurgists Non-Conventional Energy Sources Optimization Technique Remote Sensing and GIS Robotics Science and Technology of Nano Materials Soft Computing Techniques Software Testing Methodologies World Class Manufacturing Industrial Electronics

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<b>METALLURGICAL AND MATERIALS ENGINEERING</b>  <b>(18-MMT)</b>	Steel Making	Welding Metallurgy	Foundry Technology	<b>Professional Elective - I</b>	<b>(Open Elective-I)</b> Artificial Neural Networks
					Cyber Security
				Non Ferrous Extractive Metallurgy	Coal Gasification, Coal Bed Methane and Shale Gas
					Data Structures
				Surface Engineering	Design Estimation and Costing of Electrical Systems
					Energy Management and Conservation
					Environmental Impact Assessment
				Electronic and Magnetic Materials	Entrepreneurship and Small Business Enterprises
					Energy Storage Systems
					Geo-Informatics
					Fabrication Processes
					Fundamentals of Robotics
					Industrial Electronics
					Industrial Management
					Introduction to Aerospace Engineering
					Introduction to Material Handling
					Introduction to Mechatronics
					Intellectual Property Rights
					Java Programming
					Medical Electronics
	Non-Conventional Energy Sources				
	Optimization Technique				
	Principles of Computer Communications and Networks				
	Remote Sensing and GIS				
	Robotics				
	Software Testing Methodologies				
	Soft Computing Techniques				
	World Class Manufacturing				

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<b>ELECTRONICS AND COMPUTER ENGINEERING</b>  <b>(19-E.COMP.E)</b>	Computer Networks	Microprocessors and Microcontrollers (Common to ECE, ETM E.COMP.E)	Digital Signal Processing (Common to ECE .EIE, ETM, BME, E.COMP.E)	<b>Professional Elective - I</b>	<b><u>(Open Elective-I)</u></b>
				Computer Organization	Artificial Neural Networks Coal Gasification, Coal Bed Methane and Shale Gas
				Database Management Systems	Cyber Security Medical Electronics Coal Gasification, Coal Bed Methane and Shale Gas Geo-Informatics
				Information Systems	Intellectual Property Rights Environmental Impact Assessment
				Data Structures	Java Programming Data Structures Energy Management and Conservation Energy Storage Systems Entrepreneurship and Small Business Enterprises Principles of Computer Communications and Networks Soft Computing Techniques Design Estimation and Costing of Electrical Systems Industrial Management Industrial Electronics World Class Manufacturing Fundamentals of Robotics Fabrication Processes Introduction to Material Handling Introduction to Aerospace Engineering Introduction to Mechatronics Metallurgy of Non Metallurgists Non-Conventional Energy Sources Software Testing Methodologies Science and Technology of Nano Materials Robotics Remote Sensing and GIS Optimization Technique

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<b>AERONAUTICAL ENGINEERING (21-AE)</b>	Aircraft Systems	Aircraft Stability and Control	Rocket and Spacecraft Propulsion	<b>Professional Elective - I</b>	<b>(Open Elective-I)</b> Artificial Neural Networks Cyber Security
				Finite Element Methods	Coal Gasification, Coal Bed Methane and Shale Gas Data Structures
				Experimental Aerodynamics	Design Estimation and Costing of Electrical Systems Energy Management and Conservation Environmental Impact Assessment
				Mechanisms and Mechanical Design	Entrepreneurship and Small Business Enterprises Energy Storage Systems
				Unmanned Air Vehicle (UAV) Systems	Fabrication Processes Fundamentals of Robotics Geo-Informatics Industrial Electronics
				Industrial Management	Metallurgy of Non Metallurgists Introduction to Material Handling Introduction to Mechatronics Intellectual Property Rights Java Programming Medical Electronics Non-Conventional Energy Sources Optimization Technique Principles of Computer Communications and Networks Remote Sensing and GIS Robotics Science and Technology of Nano Materials Soft Computing Techniques Software Testing Methodologies World Class Manufacturing

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<b>AUTOMOBILE ENGINEERING (24-AME)</b>	Thermal Engineering - II (Common to ME ,AME)	Mechanics of Fluids and Hydraulics Machinery	Design of Machine Members - I	<b>Professional Elective - I</b>	<b>(Open Elective-I)</b>
				CAD/C AM	Cyber Security Medical Electronics
				Automobile Air Conditioning	Coal Gasification, Coal Bed Methane and Shale Gas Geo-Informatics Intellectual Property Rights Environmental Impact Assessment
				Automotive Chassis and Suspension	Java Programming Optimization Technique
				Vehicle Dynamics	Metallurgy of Non Metallurgists Energy Management and Conservation Energy Storage Systems Entrepreneurship and Small Business Enterprises Principles of Computer Communications and Networks Soft Computing Techniques Design Estimation and Costing of Electrical Systems Industrial Management Industrial Electronics World Class Manufacturing Fundamentals of Robotics Fabrication Processes Introduction to Material Handling Remote Sensing and GIS Introduction to Aerospace Engineering Introduction to Mechatronics Non-Conventional Energy Sources Robotics Software Testing Methodologies Science and Technology of Nano Materials

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<b>MINING ENGINEERING (25 - MIE)</b>	Surface Mining Technology	Mineral Process Engineering	Rock Mechanics	<b>Professional Elective - I</b>	<b>(Open Elective-I)</b>
				Mine Systems Engineering	Introduction to Aerospace Engineering
				Remote Sensing and GIS in Mining	Data Structures
				Dimensional Stone Technology	Artificial Neural Networks
				Mineral Exploration	Medical Electronics
					Remote Sensing and GIS
					Geo-Informatics
					Intellectual Property Rights
					Environmental Impact Assessment
					Java Programming
					Software Testing Methodologies
					Cyber Security
					Principles of Computer Communications and Networks
					Soft Computing Techniques
					Design Estimation and Costing of Electrical Systems
					Entrepreneurship and Small Business Enterprises
					Energy Storage Systems
					Optimization Technique
					Introduction to Mechatronics
					Industrial Electronics
	World Class Manufacturing				
	Fundamentals of Robotics				
	Fabrication Processes				
	Introduction to Material Handling				
	Non-Conventional Energy Sources				
	Robotics				
	Metallurgy of Non Metallurgists				
	Industrial Management				
	Science and Technology of Nano Materials				

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<b>PETROLEUM ENGINEERING</b>  (27 - PTME)	Drilling Technology	Petroleum Reservoir Engineering	Petroleum Refinery Engineering	<b>Professional Elective - I</b>	<u><b>(Open Elective-I)</b></u>
				Pipeline Engineering	Artificial Neural Networks Coal Gasification, Coal Bed Methane and Shale Gas
				Natural Gas Processing	Cyber Security Medical Electronics
				Petrochemical Engineering	Geo-Informatics Intellectual Property Rights
					Environmental Impact Assessment Java Programming Data Structures Metallurgy of Non Metallurgists Energy Management and Conservation Energy Storage Systems Non-Conventional Energy Sources Principles of Computer Communications and Networks Robotics Soft Computing Techniques Software Testing Methodologies Science and Technology of Nano Materials Design Estimation and Costing of Electrical Systems Industrial Management Industrial Electronics World Class Manufacturing Fundamentals of Robotics Fabrication Processes Introduction to Material Handling Remote Sensing and GIS Introduction to Aerospace Engineering Introduction to Mechatronics

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<b>CIVIL &amp; ENVIRONMENTAL ENGINEERING</b> (28-C E E)	Design of Steel Structures (Common to CE ,CEE)	Water Resources Engineering	Waste Water Engineering	<b>Professional Elective - I</b>	<b><u>(Open Elective-I)</u></b>
				Air Pollution and Control	Introduction to Aerospace Engineering Data Structures
				Watershed Management	Artificial Neural Networks Coal Gasification, Coal Bed Methane and Shale Gas Medical Electronics Remote Sensing and GIS
				Environmental Sanitation	Geo-Informatics Energy Management and Conservation
				Environmental Chemistry	Java Programming Software Testing Methodologies Cyber Security Metallurgy of Non Metallurgists Science and Technology of Nano Materials Robotics
				Principles of Computer Communications and Networks	Soft Computing Techniques Design Estimation and Costing of Electrical Systems Energy Storage Systems Entrepreneurship and Small Business Enterprises Introduction to Mechatronics Industrial Electronics Industrial Management World Class Manufacturing Fundamentals of Robotics Fabrication Processes Introduction to Material Handling Non-Conventional Energy Sources Optimization Technique

Date: 04-02-2020

# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY - HYDERABAD – 5000 85

EXAMINATION BRANCH

## III YEAR B.TECH – II SEMESTER– R16 REGULATION I - MID TERM EXAMINATIONS FEBRUARY -2020

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

TIME → FN: 10.00 AM TO 11.30 AM

AN: 02.00 PM TO 03.30 PM

BRANCH	10-02-2020 FN MONDAY	10-02-2020 AN MONDAY	11-02-2020 FN TUESDAY	11-02-2020 AN TUESDAY	12-02-2020 FN WEDNESDAY
<b>MECHANICAL ENGINEERING (MATERIAL SCIENCE &amp; NANO TECHNOLOGY)</b>  (29 – MSNT)	Engineering Metrology	Properties of Nano Materials	Finite Element Methods	Professional Elective - I	<b>(Open Elective-I)</b>
				Mechanical Vibrations	Artificial Neural Networks Coal Gasification, Coal Bed Methane and Shale Gas Cyber Security Medical Electronics
				Refrigeration and Air conditioning	Software Testing Methodologies Science and Technology of Nano Materials Geo-Informatics Data Structures
				Operations Research	Intellectual Property Rights Environmental Impact Assessment Java Programming
				Maintenance and Safety Engineering	Optimization Technique Metallurgy of Non Metallurgists Energy Management and Conservation Energy Storage Systems Entrepreneurship and Small Business Enterprises
					Principles of Computer Communications and Networks Soft Computing Techniques Design Estimation and Costing of Electrical Systems Industrial Management Industrial Electronics Introduction to Aerospace Engineering World Class Manufacturing Fundamentals of Robotics Fabrication Processes Introduction to Mechatronics Remote Sensing and GIS

Sd/-

**CONTROLLER OF EXAMINATIONS**

**Date: 04-02-2020**

**Note:** ANY OMISSIONS OR CLASHES IN THIS TIME TABLE MAY PLEASE BE INFORMED TO THE CONTROLLER OF EXAMINATIONS IMMEDIATELY.

- (i) EVEN IF GOVERNMENT DECLARES HOLIDAY ON ANY OF THE ABOVE DATES, THE EXAMINATIONS SHALL BE CONDUCTED AS USUAL
- (ii) READMITTED STUDENTS HAVE TO APPEAR FOR THE SUBSTITUTE SUBJECT(S) [WHICH IS/ARE NOT SHOWN IN THE TIME-TABLE] IN PLACE OF THE SUBJECT(S) ALREADY PASSED. FOR DETAILS OF SUBSTITUTE SUBJECTS REFER THE COMMUNICATIONS RECEIVED FROM THE DIRECTOR OF ACADEMIC & PLANNING.