

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**  
**KUKATPALLY - HYDERABAD – 500085**  
**EXAMINATION BRANCH**  
**IV YEAR B.TECH - I SEMESTER– R13- REGULATION – COMPUTER BASED TEST(CBT),JANUARY-2017**  
**TIME TABLE**

BRANCH	DATE, DAY & SESSION					
	19-01-2017 THURSDAY		20-01-2017 FRIDAY		21-01-2017 SATURDAY	
	12:00 PM to 12:45 PM	4:00 PM to 4:45PM	12:00 PM to 12:45 PM	4:00 PM to 4:45PM	12:00 PM to 12:45 PM	4:00 PM to 4:45PM
<b>CIVIL ENGINEERING (01-C E)</b>	Remote Sensing & GIS	Transportation Engineering -II	Estimating & Costing <b>COMMON TO CE,CEE</b>	Water Resources Engineering-II	Elective-II Finite Element Methods	Elective-III Advanced Structural Design
					Advanced Foundation Engineering	Earth and Rock fill Dams and Slope Stability
					Watershed Management	Water Resources Systems Analysis
					Air Pollution and Control	Industrial Waste Water Treatment
<b>ELECTRICAL AND ELECTRONICS ENGINEERING (02-E E E)</b>	Switch Gear and Protection	Utilization of Electrical Energy	Digital Signal Processing	Power System Operation and Control	Elective-I High Voltage Engineering	Elective-II Optimization Techniques
					VLSI Design	Electrical Distribution Systems
					Digital Control Systems	Electrical Estimation and Costing
					Data Structures	
<b>MECHANICAL ENGINEERING (03-M E)</b>	Operations Research <b>COMMON TO ME,MCT,MIE, MSNT,MEP</b>	Power Plant Engineering	CAD/CAM <b>COMMON TO ME,AE,AME,MSNT</b>	Instrumentation and Control Systems <b>COMMON TO ME,AME</b>	ELECTIVE – I Robotics	ELECTIVE – II Unconventional Machining Processes
					Mechanical Vibrations	CNC Technology
					Mechatronics	Automation in Manufacturing
					Mechanics of Composite Materials	Design for Manufacturing
					Industrial Management	Nanotechnology

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<b>ELECTRONICS AND COMMUNICATIONS ENGINEERING (04-E C E)</b>	Management Science <b>COMMON TO ECE,ETM ,MMT</b>	Computer Networks <b>COMMON TO ECE,BME, ECC</b>	Microwave Engineering	Cellular and Mobile Communications	Elective – I Digital Image Processing	Elective -II: Television Engineering
					Multimedia and Signal Coding	Optical Communications
					Object Oriented Programming through Java	Embedded Systems Design
<b>COMPUTER SCIENCE AND ENGINEERING (05-C S E)</b>	Cloud Computing	Design Patterns <b>COMMON TO CSE,IT,CST,</b>	Data Warehousing and Data Mining	Linux Programming <b>COMMON TO CSE,ECC</b>	ELECTIVE – I Software Project Management	ELECTIVE – II Machine Learning
					Image processing and Pattern Recognition	Soft Computing
					Mobile Computing	Information Retrieval Systems
					Computer Graphics	Artificial Intelligence
					Operations Research	Computer Forensics
					Big data analytics(Associate analytics-II)	
Information Security assessments and credits(security analyst-2)						
<b>CHEMICAL ENGINEERING (08-C H E M)</b>	Transport Phenomena	Process Dynamics & Control	Chemical Process Equipment Design	Process Modeling and Simulation	Elective-I Biochemical Engineering	Elective - II Polymer Technology
					Computational Fluid Dynamics	Petroleum and Petrochemical Technology
					Nanotechnology	Chemical Process Optimization
<b>ELECTRONICS AND INSTRUMENTATION ENGINEERING (10-E I E)</b>	Analytical Instrumentation <b>COMMON TO EIE,ICE</b>	VLSI Design	Embedded Systems <b>COMMON TO EIE,ECC,ICE</b>	PC Based Instrumentation	Elective –I Telemetry and Telecontrol	Elective – II Computer Networks
					Optoelectronics & Laser Instrumentation	Digital Control Systems
					Robotics and Automation	Biomedical Instrumentation

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<b>BIO-MEDICAL ENGINEERING (11-B M E)</b>	Medical Image Processing	Computer Networks <b>COMMON TO BME,ECE,ECC</b>	Rehabilitation Engineering	Biomedical Signal Processing	<u>Elective – I</u> Lasers & Fiber Optic Instrumentation	<u>Elective – II</u> Embedded & Real Time Systems
					Artificial Neural Networks	VLSI Design
					Nanotechnology	DSP Processors & Architectures
<b>INFORMATION TECHNOLOGY (12- I T)</b>	Information Security <b>COMMON TO CST,IT</b>	Design Patterns <b>COMMON TO CSE,IT,CST,</b>	Mobile Application Development <b>COMMON TO CST,IT</b>	Information Retrieval Systems <b>COMMON TO CST,IT</b>	<u>ELECTIVE – I</u> Wireless Networks and Mobile Computing	<u>ELECTIVE – II</u> Software Project Management
					Image Processing and Pattern Recognition	Computer Graphics
					Soft Computing	Human Computer Interaction
					Semantic Web and Social Networks	Scripting Languages
					Operations Research	Computer Forensics
					Big data analytics(Associate analytics-II)	
					Information Security assessments and credits(security analyst-2)	
<b>MECHANICAL ENGINEERING (MECHATRONICS (14-MCT)</b>	Operations Research <b>COMMON TO ME,MCT,MIE, MSNT,MEP</b>	Microprocessors and Micro Controllers	Robotics & its applications	Motion Control Design	<u>Elective-I</u> Product Design and Assembly Automation	<u>Elective-II</u> Power Plant Engineering
					Renewable Energy Sources	Computer Organization
					Computational Fluid Dynamics	Flexible Manufacturing System
					Data Structures	Advanced Kinematics and Dynamics of Machinery

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<b>ELECTRONICS AND TELEMATICS ENGINEERING (17-E T M)</b>	Management Science <b>COMMON TO ICE,ETM, MMT,</b>	Multimedia and Signal Coding	Advanced Tele communication Technologies	Electronic Measurements and Instrumentation	Elective -I: Digital Image Processing	Elective -II: Optical Communications
					Digital Signal Processors and Architectures	Digital Control Systems
					Spread Spectrum Communications	Embedded Systems Design
<b>METALLURGICAL AND MATERIAL ENGINEERING (18-M M T)</b>	Management Science <b>COMMON TO ICE,ETM, MMT</b>	Electro Metallurgy and Corrosion	Material Characterization Techniques	Non Destructive Testing	Departmental Elective I Ceramic Science and Technology	Departmental Elective II Semi Conductors and Magnetic Materials
					X- Ray Diffraction	Metallurgical Problems
					Light Metals and Alloys	Polymeric Materials
					Probability & Statistics	
<b>ELECTRONICS AND COMPUTER ENGINEERING (19-E C C)</b>	VLSI Design	Computer Networks <b>COMMON TO ECE,BME,ECC</b>	Embedded Systems <b>COMMON TO ECC,ICE,EIE</b>	Linux Programming <b>COMMON TO CSE,ECC</b>	Elective – I Cellular & Mobile Communications	Elective – II Digital Image Processing
					Artificial Intelligence	Cloud Computing Data
					Computer Graphics	Warehousing and Data Mining
<b>MECHANICAL ENGINEERING (PRODUCTION) (20-M E P)</b>	Operations Research <b>COMMON TO ME,MCT,MIE,MSNT, MEP</b>	Mechatronics & its applications	CAD/CAM <b>COMMON TO ME,AE,AME,MSNT</b>	Instrumentation and Control Systems	ELECTIVE – I Robotics	ELECTIVE – II Unconventional Machining Processes
					Computer Integrated Manufacturing	Precision engineering
					CNC Technology	Automation in Manufacturing
					Machine Tool Design	Design for Manufacturing & Assembly
					Engineering Optimization	Nanotechnology

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<b>AERONAUTICAL ENGINEERING (21-A E)</b>	Airframe Structural Design	Mechanical Vibrations and Structural Dynamics	CAD/CAM <b>COMMON TO ME,AE,AME, MSNT</b>	Control Theory – Application to Flight Control Systems	Elective – I Advanced Computational Aerodynamics	Elective - II Space Mechanics	
					Flight Scheduling and Operations	Experimental Aerodynamics	
					Mechanisms and Mechanical Design		Operations Research
					Theory of Elasticity		Aircraft Maintenance Engineering
<b>INSTRUMENTATION AND CONTROL ENGINEERING (22-I C E)</b>	Analytical Instrumentation <b>COMMON TO ICE,EIE</b>	Computer Aided Design of Control Systems	Embedded Systems <b>COMMON TO ICE,ECC,EIE</b>	Digital Control Systems	Elective – I Object Oriented Programming Through JAVA	Elective – II Instrumentation and Control in Manufacturing systems	
					Optoelectronic & Laser Instrumentation	Computer Networks	
					Telemetry and Tele Control	Bio medical Instrumentation	
<b>BIOTECHNOLOGY (23-B O T)</b>	Bio informatics	Transport Phenomena in Bioprocess	Downstream Processing	Animal Biotechnology	ELECTIVE –II Crop improvement	ELECTIVE –III Molecular pathogenesis	
					Structural Biology	Biopharmaceuticals	
					Cancer Biology	Introduction to Biomaterials	
Artificial Neural Networks							
<b>AUTOMOBILE ENGG. (24 – AME)</b>	Automotive Electrical and Autotronics	Automotive chassis and Suspension	CAD/CAM <b>COMMON TO ME,AE,AME,MSNT</b>	Instrumentation and Control Systems <b>COMMON TO ME,AME</b>	ELECTIVE – I Metrology & Surface Engineering	ELECTIVE – II Micro Processors and Micro Controllers	
					Automotive Pollution and Control	Computational Fluid Dynamics	
					Mechatronics	Finite Element Methods	
					Mechanical Vibrations	Vehicle Body Engineering and Safety	
					Robotics	Operations Research	

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<b>MINING ENGINEERING (25 – MIE)</b>	Operations Research <b>COMMON TO ME, MCT, MIE, MSNT, MEP,</b>	Rock Mechanics	Mineral Processing	Mine Legislation	<u>Elective-I</u> Rock Slope Engineering	<u>Elective-II</u> Computer Applications in Mining
					Mine Subsidence Engineering	Mine Construction Engineering
					Rock Excavation Engineering	
					Rock Fragmentation Engineering	Tunneling Engineering
					Mine Economics	Strata Control Technology
<b>MINING MACHINERY (26-MIM)</b>	Material Handling in Mines	Mine Electrical Engineering	Automobile Engineering	Metrology and Machine Tools	<u>Elective-I</u> Principles of Tribology	<u>Elective-II</u> Underground Production Equipment
					Mechanical Systems Design	Maintenance Engineering
					Microprocessors and microcontrollers	System Modeling and Simulation
					Mechatronics	
<b>PETROLIUM ENGG. (27 – PTME)</b>	Enhanced oil Recovery Techniques	Petroleum Refinery Engineering	Health, Safety & Environment in Petroleum Industry	Petroleum Management, Marketing & Finance	<u>Elective - I</u> Natural Gas Processing	<u>ELECTIVE - II</u> Offshore Engineering
					Coal Bed Methane Engineering	Horizontal Well Technology
					Petro Chemical Engineering	Optimization of Upstream Processes
					Mass Transfer Operations Material Science	Chemical Reaction Engineering-1
<b>CIVIL &amp; ENVIRONMENTAL ENGINEERING (28-C E E)</b>	Transportation Engineering	Solid waste Management	Estimating & Costing <b>COMMON TO CE, CEE</b>	Air Pollution and Control	<u>Elective-II</u> Industrial Waste Water Treatment	<u>Elective-III</u> _Environmental Sanitation
					Environmental Pollution of Soil & Remediation	Finite Element Methods
					Watershed Management	Remote Sensing & GIS

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<b>MECHANICAL ENGINEERING (MATERIAL SCIENCE &amp; NANO TECHNOLOGY) (29 – MSNT)</b>	Operations Research <b>COMMON TO ME, MCT, MIE, MSNT, MEP</b>	Carbon Nano Tubes and their Applications	<b>CAD/CAM COMMON TO ME, AE, AME, MSNT</b>	Metrology Instrumentation and Control Systems	<u>ELECTIVE - I</u> Robotics	<u>ELECTIVE - II</u> Mechanical behavior of Nano Materials
					Mechanical Vibrations	Nano Sensors and Actuators
					CNC Technology	<b>MEMS/ NEMS Design and Applications</b>
					mechanics of Composite Materials	Surface Engineering
					Automobile Engineering	
<b>AGRICULTURE ENGINEERING (30 - ACE)</b>	Micro Irrigation Engineering	Farm Machinery and Equipments- II	Post Harvest Engineering for Horticulture Produce	Agro Industries and Bi- product Utilization	<u>ELECTIVE - I</u> Operations Research	<u>ELECTIVE - II</u> Watershed Planning and Management
					Drying and Storage Engineering	Mechanical Measurements and Instrumentation
					Managerial economics & financial Analysis	Computational Fluid Dynamics
					Food Processing Plant Design and Layout	
<b>COMPUTER SCIENCE &amp; TECHNOLOGY (31-CST)</b>	Information Security <b>COMMON TO CST, IT</b>	Design Patterns <b>COMMON TO CST, CSE, IT</b>	Mobile Application Development <b>COMMON TO CST, IT</b>	Information Retrieval Systems <b>COMMON TO CST, IT</b>	<u>ELECTIVE - I</u> Wireless Networks and Mobile Computing	<u>ELECTIVE - II</u> Software Project Management
					Image Processing and Pattern Recognition	Computer Graphics
					Soft Computing	Human Computer Interaction
					Semantic Web and Social Networks	Scripting Languages
					Operations Research	Computer Forensics

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
- (iii) 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.

DATE: 31-12-2016

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CONTROLLER OF EXAMINATIONS