



# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

## IV B.TECH - II SEMESTER (R19) REGULAR EXAMINATIONS, APRIL - 2023

### TIME TABLE

TIME : 10.00 AM TO 01.00 PM

Branch	17-04-2023 (Monday)	19-04-2023 (Wednesday)	21-04-2023 (Friday)	24-04-2023 (Monday)	26-04-2023 (Wednesday)	28-04-2023 (Friday)
<b>Civil Engineering (01)</b>	Estimation Specifications and Contract (R1942011)	<b>Program Elective – IV</b> Finite Element Methods (R194201A), Design & Drawing of Irrigation Structures (R194201B), Soil Dynamics and Machine Foundations (R194201C), Road Safety Engineering (R194201D), Disaster Management & Mitigation (R194201E), SWAYAM / NPTEL /MOOCS COURSES(12 weeks duration ) (R194201F)	.....	<b>Program Elective –V</b> Advanced Structural Analysis (R194201G), Urban Hydrology (R194201H), Ground Improvement Techniques (R194201I), Pavement Management Systems (R194201J), Low-cost Housing, (R194201K), SWAYAM/NPTEL /MOOCS COURSES(12 weeks duration) (R194201L)	.....	.....
<b>Electrical &amp; Electronics Engineering (02)</b>	Power System Operation & Control (R1942021)	<b>Elective – IV</b> Electrical Distribution Systems (R194202A), HVAC & DC Transmission (R194202B), Flexible Alternating Current Transmission Systems (R194202C), Power Quality (R194202D), Smart Grid (R194202E), Special Electrical Machines (R194202F)	Open Elective (offered by Civil) Disaster Management (R194201M), Environmental Pollution & Control (R194201N), Elements of Civil Engineering (R194201O), Green Technology (R194201P), Smart Cities (R194201Q), Project Management (R194201R), Traffic Safety (R194201S), Geo-Spatial Technologies (R194201T), Waste Water Treatment (R194201U) <b>Open Elective – II (offered by ME)</b> Green Energy Systems (R194203K), Robotics (R194203L), Energy Management (R194203M), 3D Printing Technologies (R194203N), Mechatronics (R194203O) <b>Open Elective – II (offered by ECE)</b> Embedded Systems (Except for ECE) (R194204H) <b>Open Elective – II (offered by CSE)</b> Problem Solving using Python (R194205I), Web Technologies (R194205J), Machine Learning (R194205K), Distributed Computing (R194205L), AI Tools & Techniques (R194205M), Data Science (R194205N)	.....	.....	.....



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<b>Mechanical Engineering (03)</b>	<b>Elective – V</b> Additive Manufacturing (R194203A), Gas Dynamics and Jet Propulsion (R194203B), Reliability Engineering (R194203D), MOOCs (NPTEL/Swayam) 12 WEEKS (R194203E)	<b>Elective – VI</b> Condition Monitoring (R194203F), Computational Fluid Dynamics (R194203G), Non Destructive Evaluation (R194203H), Control Systems (R194203I), Entrepreneurship Development (R194203J)	<b>Open Elective (offered by Civil)</b> Disaster Management (R194201M), Environmental Pollution & Control (R194201N), Elements of Civil Engineering (R194201O), Green Technology (R194201P), Smart Cities (R194201Q), Project Management (R194201R), Traffic Safety (R194201S), Geo-Spatial Technologies (R194201T), Waste Water Treatment (R194201U) <b>Open Elective II (offered by EEE)</b> Measurements & Instrumentation (Except for EEE) (R194202G), Fundamentals of Utilization of Electrical Energy (Except for EEE) (R194202H), Concepts of Power System Engineering (Except for EEE) (R194202I), Basics of Control Systems (Except for EEE) (R194202J), Energy Audit (Except for EEE) (R194202K) <b>Open Elective – II (offered by ME)</b> Green Energy Systems (R194203K), Robotics (R194203L), Energy Management (R194203M), 3D Printing Technologies (R194203N), Mechatronics (R194203O) <b>Open Elective – II (offered by ECE)</b> Embedded Systems (Except for ECE) (R194204H) <b>Open Elective – II (offered by CSE)</b> Problem Solving using Python (R194205I), Web Technologies (R194205J), Machine Learning (R194205K), Distributed Computing (R194205L), AI Tools & Techniques (R194205M), Data Science (R194205N)	<b>Open Elective – III (offered by ME)</b> Total Quality Management (R194203P), Supply Chain Management (R194203Q), Entrepreneurship (R194203R), Advanced Materials (R194203S) <b>Open Elective – III (offered by CSE &amp; IT)</b> Image Processing (Except for CSE & IT) (R194205F) Mobile Application Development (Except for CSE&IT) (R194205G) Cyber Security (Except for CSE & IT) (R194205H) <b>Open Elective – III (offered by PE)</b> Shale Gas Technology (Except for PE) (R194227G), Basic concepts of Enhanced Oil Recovery Techniques (Except for PE) (R194227H) <b>Open Elective – III (offered by AGE)</b> Design of Agricultural Machinery (R194235D), Food Quality and Control (R194235E), Industrial Pollution Control Engineering (R194235F)	Deep Learning (R194205A)  Block chain Technologies (R194205D)  Big Data Analytics) (R194205E)	Product Design & Development (R194203C)



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<b>Electronics &amp; Communication Engineering (04)</b>	<b>Elective – V</b> Wireless Communication <b>(R194204A),</b> VLSI Testing & Testability <b>(R194204B),</b> Machine Learning & Artificial Intelligence <b>(R194204C),</b> Speech Processing <b>(R194204D),</b> Industrial Internet of things <b>(R194204E)</b>	.....	<b>Open Elective (offered by Civil)</b> Disaster Management <b>(R194201M),</b> Environmental Pollution & Control <b>(R194201N),</b> Elements of Civil Engineering <b>(R194201O),</b> Green Technology <b>(R194201P),</b> Smart Cities <b>(R194201Q),</b> Project Management <b>(R194201R),</b> Traffic Safety <b>(R194201S),</b> Geo-Spatial Technologies <b>(R194201T),</b> Waste Water Treatment <b>(R194201U)</b> <b>Open Elective II (offered by EEE)</b> Measurements & Instrumentation (Except for EEE) <b>(R194202G),</b> Fundamentals of Utilization of Electrical Energy (Except for EEE) <b>(R194202H),</b> Concepts of Power System Engineering (Except for EEE) <b>(R194202I),</b> Basics of Control Systems (Except for EEE) <b>(R194202J),</b> Energy Audit (Except for EEE) <b>(R194202K)</b> <b>Open Elective – II (offered by ME)</b> Green Energy Systems <b>(R194203K),</b> Robotics <b>(R194203L),</b> Energy Management <b>(R194203M),</b> 3D Printing Technologies <b>(R194203N)</b> Mechatronics <b>(R194203O)</b> <b>Open Elective – II (offered by ECE)</b> 3D Printing (Open Electives for ECE) <b>(R194204F),</b> Cyber Security & Cryptography (Open Electives for ECE) <b>(R194204G)</b> <b>Open Elective – II (offered by CSE)</b> Problem Solving using Python <b>(R194205I),</b> Web Technologies <b>(R194205J),</b> Machine Learning <b>(R194205K),</b> Distributed Computing <b>(R194205L),</b> AI Tools & Techniques <b>(R194205M),</b> Data Science <b>(R194205N)</b>	.....	Block chain Technologies <b>(R194205D)</b>	.....



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<b>Computer Science &amp; Engineering (05)</b>	Management and Organizational Behavior (Common to CSE & IT) (R1942051)	<b>Elective – V</b> Quantum Computing (Common to CSE & IT) (R194205B), DevOps (R194205C),	<b>Open Elective (offered by Civil)</b> Disaster Management (R194201M), Environmental Pollution & Control (R194201N), Elements of Civil Engineering (R194201O), Green Technology (R194201P), Smart Cities (R194201Q), Project Management (R194201R), Traffic Safety (R194201S), Geo-Spatial Technologies (R194201T), Waste Water Treatment (R194201U)	<b>Open Elective – III (offered by ME)</b> Total Quality Management (R194203P), Supply Chain Management (R194203Q), Entrepreneurship (R194203R), Advanced Materials (R194203S) <b>Open Elective – III (offered by PE)</b> Shale Gas Technology (Except for PE Branch) (R194227G), Basic concepts of Enhanced Oil Recovery Techniques (Except for PE) (R194227H) <b>Open Elective – III (offered by AGE)</b> Design of Agricultural Machinery (R194235D), Food Quality and Control (R194235E), Industrial Pollution Control Engineering (R194235F)	Deep Learning (R194205A), Block chain Technologies (R194205D), Big Data Analytics (R194205E)	Product Design & Development (R194203C)
<b>Information Technology (12)</b>	Management and Organizational Behavior (Common to CSE & IT) (R1942051)	<b>Elective – V</b> Quantum Computing (Common to CSE & IT) (R194205B), Software Project Management (R194212A), Network Programming (R194212B)	<b>Open Elective (offered by Civil)</b> Disaster Management (R194201M), Environmental Pollution & Control (R194201N), Elements of Civil Engineering (R194201O), Green Technology (R194201P), Smart Cities (R194201Q), Project Management (R194201R), Traffic Safety (R194201S), Geo-Spatial Technologies (R194201T), Waste Water Treatment (R194201U)	<b>Open Elective – III (offered by ME)</b> Total Quality Management (R194203P), Supply Chain Management (R194203Q), Entrepreneurship (R194203R), Advanced Materials (R194203S) <b>Open Elective – III (offered by PE)</b> Shale Gas Technology (Except for PE) (R194227G), Basic concepts of Enhanced Oil Recovery Techniques (Except for PE) (R194227H), <b>Open Elective – III (offered by AGE)</b> Design of Agricultural Machinery (R194235D), Food Quality and Control (R194235E), Industrial Pollution Control Engineering (R194235F)	Deep Learning (R194205A), Block chain Technologies (R194205D), Big Data Analytics (R194205E)	Product Design & Development (R194203C)



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<b>Automobile Engineering (24)</b>	Noise, Vibrations and Harshness (R1942241)	Vehicle Maintenance (R1942242)	Certification and Homologation (R1942243)	<b>Elective – III</b> Automotive Safety (R194224A), Automotive HVAC (R194224B), Special Purpose Vehicles (R194224C)	.....	.....
<b>Mining Engineering (26)</b>	Mine Economics & Investment (R1942261)	Numerical Modeling in Mining (R1942262)	<b>Elective – II</b> Planning of Underground Metal Mining Projects (R194226A), Long wall mining (R194226B), Planning of Surface Mining Projects (R194226C)	.....	.....	.....
<b>Petroleum Engineering (27)</b>	<b>Elective – VI</b> Production Optimization using Nodal Analysis, (R194227A), Deepwater Technology, (R194227B) Any other course subjective availability from NPTEL database (12 Weeks) other than regular offered courses. (R194227C)	<b>Elective – VII</b> Asset Management (R194227D) Petroleum Economics, Policies and Regulations (R194227E) Any other course subjective availability from NPTEL database (12 Weeks) other than regular offered courses. (R194227F)	<b>Open Elective</b> (offered by civil) Disaster Management (R194201M), Environmental Pollution & Control (R194201N), Elements of Civil Engineering (R194201O), Green Technology (R194201P), Smart Cities (R194201Q), Project Management (R194201R), Traffic Safety (R194201S), Geo-Spatial Technologies (R194201T), Waste Water Treatment (R194201U)	<b>Open Elective – III (offered by ME)</b> Total Quality Management (R194203P), Supply Chain Management (R194203Q), Entrepreneurship (R194203R), Advanced Materials (R194203S) <b>Open Elective – III (offered by CSE &amp; IT)</b> Image Processing (Except for CSE & IT) (R194205F), Mobile Application Development (Except for CSE & IT) (R194205G), Cyber Security (Except for CSE & IT) (R194205H) <b>Open Elective – III (offered by AGE)</b> Design of Agricultural Machinery (R194235D), Food Quality and Control (R194235E), Industrial Pollution Control Engineering (R194235F)	Deep Learning (R194205A)  Block chain Technologies (R194205D)  Big Data Analytics (R194205E)	Product Design & Development (R194203C)



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<b>Agricultural Engineering (35)</b>	Agricultural Extension Techniques and Business Management (R194235I)	<b>Elective –IV</b> Design of Soil and Water Conservation and Form Systems (R194235A),  Process Equipment Design (R194235B),  Digital Control Systems (R194235C)	<b>Open Elective – IV</b> (offered by AGE) Agro Industries and By-Products Utilization (R194235G) Hydraulic Devices and Controls (R194235H) Water Resource System Planning and Management (R194235I) Open Elective (offered by civil) Disaster Management (R194201M), Environmental Pollution & Control (R194201N) Elements of Civil Engineering (R194201O) Green Technology (R194201P) Smart Cities (R194201Q) Project Management (R194201R) Traffic Safety (R194201S) Geo-Spatial Technologies (R194201T) Waste Water Treatment (R194201U)	<b>Open Elective – III</b> (offered by ME) Total Quality Management (R194203P), Supply Chain Management (R194203Q), Entrepreneurship (R194203R), Advanced Materials (R194203S) <b>Open Elective – III</b> (offered by CSE & IT) Image Processing (Except for CSE & IT) (R194205F) Mobile Application Development (Except for CSE & IT) (R194205G) Cyber Security (Except for CSE & IT) (R194205H) <b>Open Elective – III (offered by PE)</b> Shale Gas Technology (Except for PE) (R194227G), Basic concepts of Enhanced Oil Recovery Techniques (Except for PE Branch) (R194227H), <b>Open Elective – III (offered by AGE)</b> Design of Agricultural Machinery (R194235D), Food Quality and Control (R194235E), Industrial Pollution Control Engineering (R194235F)	Deep Learning (R194205A)  Block chain Technologies (R194205D)  Big Data Analytics (R194205E)	Product Design & Development (R194203C)

**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) THE PRINCIPALS ARE REQUESTED TO INFORM THE UNIVERSITY ANY OTHER SUBSTITUTE SUBJECTS THAT ARE NOT INCLUDED IN THE ABOVE LIST IMMEDIATELY.

**DATE: 01 -04-2023**

  
**Controller of Examinations**

**TIME TABLE OF IV B.TECH II SEMESTER SUBSTITUTE SUBJECTS FOR READMITTED STUDENTS**  
**FROM R10 TO R13 REGULATIONS**

DATE OF EXAMINATION: 19-04-2023 (Wednesday)		TIME OF EXAMINATION: 10.00 AM TO 01.00 PM
BRANCH	ALREADY STUDIED SUBJECT	SUGGESTED SUBJECT
ELECTRONICS AND COMMUNICATION ENGINEERING (04 – ECE)	Electronic Measurements & Instrumentation (RT42042)	<b><u>Elective - III</u></b>
		1. Sattellite Communications (PT42043A)
		2. Embedded Systems (PT42043C)
		3. Mixed Signal Design (PT42043B)
		4. Cloud Computing (PT42043E)
		5. RF Circuit Design (PT42043D)
		<b><u>Elective - IV</u></b>
		1. Bio-Medical Ins (PT42044D)
		2. Wireless Sensors and Networks (PT42044A)
		3. System on Chip (PT42044B)
4. Low Power VLSI Design (PT42044C)		
COMPUTER SCIENCE AND ENGINEERING (05 – CSE)	Management Science (RT42052)	<b><u>Elective - III</u></b>
		1. Human Computer Interaction (PT42053A)
		2. Advanced Operating Systems (PT42053B)
		3. Mobile Adhoc & Sensor Networks (PT42053C)
		4. Pattern Recognition (PT42053D)
		5. Digital Image Processing (PT42053E)
		6. Microprocessors and Multi Core Systems (PT42053F)
		<b><u>Elective - IV</u></b>
		1. Embedded & Real Time Systems (PT42054B)
		2. Social Networks & The Semantic Web (PT42054D)
3. Cloud Computing (PT42043E)		
4. Micro processors and Multi Core Systems (PT42054A)		
5. Neural Networks & Soft Computing (PT42054C)		

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*H. R. Kic*

**Controller of Examinations**

**DATE: 01-04-2023**

**TIME TABLE OF IV B.TECH II SEMESTER ADDITIONAL SUBJECTS FOR READMITTED STUDENTS**  
**FROM R16 REGULATIONS**

DATE OF EXAMINATION: 24-04-2023 (Monday)		TIME OF EXAMINATION: 10.00 AM TO 01.00 PM
BRANCH	ALREADY STUDIED SUBJECT	SUGGESTED SUBJECT
MECHANICAL ENGINEERING (03 – ME)	---	Refrigeration And Air Conditioning (AR1642033)

**TIME TABLE OF IV B.TECH II SEMESTER ADDITIONAL SUBJECTS FOR READMITTED STUDENTS**  
**FROM R16 REGULATIONS**

DATE OF EXAMINATION: 24-04-2023 (Tuesday)		TIME OF EXAMINATION: 10.00 AM TO 01.00 PM
BRANCH	ALREADY STUDIED SUBJECT	SUGGESTED SUBJECT
MECHANICAL ENGINEERING (03 – ME)	---	Instrumentation And Control Systems (AR1642032)

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**DATE: 01-04-2023**



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**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA**  
**UNIVERSITY EXAMINATION CENTER, KAKINADA**  
**IV B.TECH - II SEMESTER (R16) SUPPLEMENTARY EXAMINATIONS, APRIL - 2023**

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

**TIME : 10.00 AM TO 01.00 PM**

Branch	17.04.2023 (Monday)	19.04.2023 (Wednesday)	21.04.2023 (Friday)	24.04.2023 (Monday)
<b>Civil Engineering (01)</b>	Estimation Specificatin & Contracts (R1642011)	Construction Technology & Management (R1642012)	Prestressed Concrete (R1642013)	<b>Elective-III:</b> Bridge Engineering (R164201A)/Soil Dynamics and Foundations (R164201B)/Solid and Hazards waste management (R164201C)/Water Resource System Planning (R164201D)/UrbanTransportation Planning Engineering (R164201E)
<b>Electrical &amp; Electronics Engineering (02)</b>	Digital Control Systems (R1642021)	HVDC Transmission (R1642022)	Electrical Distribution Systems (R1642023)	<b>Elective-I:</b> High Voltage Engineering (R164202A)/Flexible Alternating Current Transmissin Systems (R164202B)/Power Systems Reforms (R164202C)
<b>Mechanical Engineering (03)</b>	Production Planning and Control (Common to Mechanical and Mining) (R1642031)	Unconventional Machining Processes (R1642032)	Automobile Engineering (R1642033)	<b>Elective-III:</b> Thermal Equipment Design (R164203A)/Non Destructive Evaluation (R164203B)/Quality and Reliability Engineering (R164203C)
<b>Electronics &amp; Communication Engineering (04)</b>	Cellular Mobile Communications (R1642041)	Electronic Measurements and Instrumentation (R1642042)	Satellite Communications (R1642043)	<b>Elective-III:</b> Digital IC Design(Common to ECE & E.I.E) (R164204B)/Operating Systems (R164204C)/Wireless Sensors & Networks(R164204A)
<b>Computer Science &amp; Engineering (05)</b>	Distributed Systems (Common to CSE, IT) (R1642051)	Management Science (Common to CSE, IT) (R1642052)	Machine Learning (R1642053)	<b>Elective-III:</b> Operation Research (R164205C)/Artificial Neural Networks(Common to CSE, IT) (R164205B)/Concurrent and Parallel Programming(Common to CSE, IT) (R164205A)





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**IV B.TECH - II SEMESTER (R16) SUPPLEMENTARY EXAMINATIONS, APRIL - 2023**

**TIME TABLE**

**TIME : 10.00 AM TO 01.00 PM**

Branch	17.04.2023 (Monday)	19.04.2023 (Wednesday)	21.04.2023 (Friday)	24.04.2023 (Monday)
<b>Mining Engineering (26)</b>	Production Planning and Control (Common to Mechanical and Mining) (R1642031)	Mine Economics & Investment (R1642261)	Mine Health and Safety Engineering (R1642262)	<b>Elective III:</b> Planning of Underground Metal Mining Projects (R164226A)/Planning of Underground Coal Mining Projects (R164226B)/Planning of Surface Mining Projects (R164226C)
<b>Petroleum Engineering (27)</b>	EOR Techniques (R1642271)	HSE & FE in Petroleum Industry (R1642272)	Petroleum Economics, Policies & Regulations (R1642273)	<b>Elective III :</b> Shale Gas Reservoir Engineering (R164227A)/Subsea Engineering (R164227B)/Reservoir Modelling & Simulation (R164227C)
<b>Agricultural Engineering (35)</b>	Design of Agricultural Machinery (R1642351)	Agricultural Extension Techniques and Business Managemet (R1642352)	Agro Industries and Bi-product Utilization (R1642353)	<b>Elective III :</b> GIS and Remote Sensing (R164235A)/Human Engineering and safety (R164235B)/Production Technology of Agricultural Machinery (R164235C)

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DATE: 01-04-2023

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# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

## IV B.TECH II SEMESTER (R13) SUPPLEMENTARY EXAMINATIONS, APRIL - 2023

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

**TIME: 10.00 AM TO 1.00 PM**

Branch	17.04.2023 (Monday)	19.04.2023 (Wednesday)	21.04.2023 (Friday)	24.04.2023 (Monday)
<b>Civil Engineering (01)</b>	Estimating, Specifications & Contracts (RT42011)	<b>Elective-II:</b> Engineering with Geo-synthetics (RT42012A)/ Environmental Impact Assessment and Management (RT42012B)/ Advanced Structural Engineering (RT42012C)/ Ground Water Development and Management (RT42012D)/ Traffic Engineering (RT42012E)/ Infrastructure Management (RT42012F)	<b>Elective-III:</b> Advanced foundation Engineering (RT42013A)/ Solid waste Management (RT42013B)/ Earthquake Resistant Design (RT42013C)/ Water Shed Management (RT42013D)/ Pavement Analysis and Design (RT42013E)/ Green Buildings (RT42013F)	<b>Elective-IV:</b> Soil Dynamics and Machine Foundations (RT42014A)/ Environmental and Industrial Hygiene(RT42014B)/ Repair and Rehabilitation of Structures(RT42014C)/ Water Resources System Planning and Management (RT42014D)/ Urban Transportation Planning (RT42014E)/ Safety Engineering (RT42014F)/ Bridge Engineering (RT42014G)
<b>Electrical and Electronics Engineering (02)</b>	Digital Control Systems (RT42021)	<b>Elective-II:</b> Advanced Control Systems (RT42022A) High Voltage Engineering (RT42022B) Special Electrical Machines (RT42022C)	<b>Elective-III:</b> Electric Power Quality (RT42023A)/ Digital Signal Processing (RT42023B)/ FACTS: Flexible Alternating Current Transmission Systems (RT42023C)	<b>Elective-IV:</b> OOPS Through Java(RT42024A)/ UNIX and Shell Programming (RT42024B)/ AI Techniques (RT42024C)/ Power System Reforms (RT42024D)/ Systems Engineering (RT42024E)
<b>Mechanical Engineering (03)</b>	Production Planning and Control (RT42031) <i>(Common to ME, Mining)</i>	Green Engineering Systems (RT42032)	<b>Elective-III:</b> Experimental Stress Analysis (RT42033A) <i>(Common to ME,AME)/</i> Mechatronics (RT42033B)/ Advanced Materials (RT42033C)/ Power Plant Engineering(RT42033D)	<b>Elective-IV:</b> Non Destructive Evaluation(RT42034A)/ Advanced Optimization Techniques(RT42034B)/ Gas Dynamics & Jet Propulsion(RT42034C)/ Quality and Reliability Engineering (RT42034D)
<b>Electronics and Communication Engineering (04)</b>	Cellular Mobile Communication (RT42041)	Electronic Measurements and Instrumentation (RT42042)	<b>Elective-III:</b> Satellite Communication (RT42043A)/ Mixed signal Design (RT42043B)/ Embedded systems (RT42043C) <i>(Common to ECE,EIE&amp;ECC)</i> RF Circuit Design (RT42043D) Cloud Computing (RT42043E) <i>(Common to ECE,CSE)</i>	<b>Elective-IV:</b> Wireless Sensors and Networks (RT42044A) <i>(Common to ECE,EIE&amp;ECC)</i> System on Chip (RT42044B) <i>(Common to ECE, EIE)</i> Low Power VLSI Design (RT42044C) Bio-Medical Ins(RT42044D) EMI/EMC (RT42044E) <i>(Common to ECE, ECC)</i>
<b>Computer Science and Engineering (05)</b>	Distributed Systems (RT42051) <i>(Common to CSE, IT)</i>	Management Science (RT42052) <i>(Common to CSE, IT &amp; AME)</i>	<b>Elective-IV:</b> Micro processors and Multi Core Systems (RT42054A)/ Embedded and Real Time Systems (RT42054B)/ Neural Networks & Soft Computing (RT42054C) / Social Networks and the Semantic Web(RT42054D)/ Cloud Computing (RT42043E) <i>(Common to CSE, ECE)</i>	<b>Elective-III:</b> Human Computer Interaction (RT42053A)/ <i>(Common to CSE, IT)</i> Advanced Operating Systems (RT42053B)/ <i>(Common to CSE, IT)</i> Mobile Adhoc & Sensor Networks(RT42053C)/ <i>(Common to CSE, IT)</i> Pattern Recognition(RT42053D)/ <i>(Common to CSE, IT)</i> Digital Image Processing (RT42053E)/ Micro processors and Multi Core Systems (RT42053F)

Branch	17.04.2023 (Monday)	19.04.2023 (Wednesday)	21.04.2023 (Friday)	24.04.2023 (Monday)
<b>Chemical Engineering (08)</b>	Industrial Safety & Hazard Management (RT42081)	<b>Elective-II:</b> Multicomponent Distillation (RT42082A)/ Fluidization Engineering (RT42082B)/ Corrosion & Its Control (RT42082C)	<b>Elective-III:</b> Computational Fluid Dynamics (RT42083A)/ Optimization of Chemical Processes (RT42083B)/ Computational Methods in Chemical Engineering (RT42083C)	<b>Elective-IV:</b> Catalysis(RT42084A)/ Pipeline Engineering (RT42084B)/ Process Trouble Shooting (RT42084C)
<b>Electronics &amp; Instrumentation Engineering (10)</b>	Industrial Automation (RT42101)	Data Communication (RT42102)	<b>Elective-III:</b> Digital IC Design (RT42103A)/ Embedded systems (RT42043C) <i>(Common to ECE,EIE&amp;ECC)/</i> Micro electromechanical systems (MEMS) (RT42103B)/ Computer Networks (RT42103C)/ Advanced Computer Architecture (RT42103D)	<b>Elective-IV:</b> Wireless Sensors and Networks (RT42044A) <i>(Common to ECE,EIE&amp;ECC) /</i> Calibration & standards (RT42104A)/ Fiber Optic Sensors (RT42104B)/ Telemetry & Tele control (RT42104C)/ System on Chip(RT42044B) <i>(Common to ECE&amp;EIE)</i>
<b>Information Technology (12)</b>	Distributed Systems (RT42051) <i>(Common to CSE, IT)</i>	Management Science (RT42052) <i>(Common to CSE, IT &amp; AME)</i>	Mathematical Opimization (RT42121)	<b>Elective-III:</b> Human Computer Interaction (RT42053A)/ <i>(Common to CSE, IT)</i> Advanced Operating Systems (RT42053B)/ <i>(Common to CSE, IT)</i> Mobile Adhoc & Sensor Networks(RT42053C)/ <i>(Common to CSE, IT)</i> Pattern Recognition(RT42053D)/ <i>(Common to CSE, IT)</i>
<b>Electronics &amp; Computer Engineering (19)</b>	Automata Theory & Compiler Design (RT42192)/	<b>Elective-IV:</b> Real Time Operating Systems (RT42194B)	Embedded Systems (RT42043C) <i>(Common to ECE,EIE&amp;ECC)</i>	<b>Elective-IV:</b> Wireless Sensor Networks (RT42044A) <i>(Common to ECE, ECC)/</i> Network Security & Cryptography (RT42194C) EMI/EMC (RT42044E)(Common to ECE, ECC)
<b>Aeronautical Engineering (21)</b>	Aircraft Systems and Instrumentation (RT42211)	Structural Analysis and Detailed Design (RT42212)	<b>Elective-III:</b> Engineering Optimization(RT42213A)/ Propellant Technology(RT42213B)/ Boundary Layer Theory(RT42213C)/ Hypersonic Aerodynamics (RT42213D)	<b>Elective-IV:</b> Aero elasticity(RT42214A)/ Industrial Aerodynamics(RT42214B) / Advanced Computational Aerodynamics (RT42214C) / Fatigue and Fracture Mechanics (RT42214D)
<b>Automobile Engineering (24)</b>	Automotive Control Systems (RT42241)	<b>Elective-IV:</b> Management Science (RT42052) <i>(Common to CSE, IT &amp; AME) /</i> Principles of Entrepreneurship (RT42244B)/ Simulation of SI and CI Engines (RT42244C)/ Modern Vehicle Technology (RT42244D)	<b>Elective-III:</b> Automotive Safety (RT42243A)/ Automotive Manufacturing (RT42243B)/ Auto Air Conditioning (RT42243C)/ Experimental Stress Analysis (RT42033A) <i>(Common to ME,AME)</i>	Vehicle Maintenance (RT42242)

Branch	17.04.2023 (Monday)	19.04.2023 (Wednesday)	21.04.2023 (Friday)	24.04.2023 (Monday)
<b>Mining Engineering (26)</b>	Production Planning and Control (RT42031) <i>(Common to ME, MINING)</i>	Deep Sea Mining (RT42262A)/ Mine Construction (RT42262B)/ Tunneling Engineering (RT42262C)	<b>Elective-III:</b> Planning Of Underground Metal Mining Project (RT42263A) / Planning Of Underground Coal Mining Project (RT42263B) / Planning Of Surface Mining Project (RT42263C)	<b>Elective-IV:</b> Maintenance And Reliability Engineering (RT42264A) / Rock Excavation Engineering (RT42264B) / Mine Health And Safety Engineering (RT42264C)
<b>Petroleum Engineering (27)</b>	Petroleum Economics, Regulations & Policies (RT42271)	Reservoir Modeling & Simulation (RT42272A)/ Horizontal Well Technology (RT42272B)/ LNG-Processes, transportation & Storage (RT42272C)	<b>Elective-III:</b> Reservoir Stimulation (RT42273A)/ Subsea Engineering (RT42273B)/ Fundamentals of Multiphase Flow (RT42273C)	<b>Elective-IV:</b> Natural Gas Hydrates (RT42274A) / Advanced Natural Gas Engineering (RT42274B) / Petroleum Biotechnology (RT42274C)
<b>Agricultural Engineering (35)</b>	Design of Agricultural Machinery (RT42351)	Agro Industries and Bi-product Utilization (RT42352)	<b>Elective-III:</b> GIS and Remote Sensing(RT42353A) Human Engineering and Safety(RT42353B) Production Technology of Agricultural Machinery (RT42353C)	<b>Elective-IV:</b> Minor Irrigation and Command area development(RT42354A) Hydraulic Devices and Control (RT42354B) Principles of Entrepreneurship (RT42354C)

**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) THE PRINCIPALS ARE REQUESTED TO INFORM THE UNIVERSITY ANY OTHER SUBSTITUTE SUBJECTS THAT ARE NOT INCLUDED IN THE ABOVE LIST IMMEDIATELY.

Date : 01-04-2023



Controller of Examinations