

# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY, HYDERABAD – 500 085

EXAMINATION BRANCH

**IV YEAR B.TECH – I SEMESTER– R18 REGULATION REGULAR /SUPPLEMENTARY EXAMINATIONS JANUARY/FEBRUARY-2023**

**TIME TABLE**

**T I M E→FN: 10:00 AM TO 1:00 PM**

| BRANCH  | 20-01-2023<br>FRIDAY                             | 23-01-2023<br>MONDAY                  | 25-01-2023<br>WEDNESDAY       | 27-01-2023<br>FRIDAY                | 31-01-2023<br>TUESDAY                   |
|---|--|---------------------------------------|-------------------------------|-------------------------------------|---|
| <b>CIVIL<br/>ENGINEERING<br/><br/>(01-CE)</b> | Estimation, Costing<br>and Project<br>Management | Professional Practice<br>law & Ethics | E3                            | E4                                  | OE2                                     |
|   |  |                                       | Remote Sensing & GIS          | Irrigation and Hydraulic Structures | Data Structures                         |
|   |  |                                       | Advanced Structural Design    | Pipeline Engineering                | Artificial Intelligence                 |
|   |  |                                       | Ground Improvement Techniques | Ground Water Hydrology              | Python Programming                      |
|   |  |                                       |                               |                                     | Java Programming                        |
|   |  |                                       |                               |                                     | Fundamentals of Biomedical Applications |
|   |  |                                       |                               |                                     | Electronic Sensors                      |
|   |  |                                       |                               |                                     | Utilization of Electrical Energy        |
|   |  |                                       |                               |                                     | Electric Drives and Control             |
|   |  |                                       |                               |                                     | Basic Mechanical Engineering            |
|   |  |                                       |                               |                                     | Basics of Aeronautical Engineering      |
|   |  |                                       |                               |                                     | Intellectual Property Rights            |
|   |  |                                       |                               |                                     | Principles of Entrepreneurship          |
|   |  |                                       | Natural Gas Engineering       |                                     |   |
| Engineering Materials                         |  |                                       |                               |                                     |   |
| Surface Engineering                           |  |                                       |                               |                                     |   |
| Health & Safety in Mines                      |  |                                       |                               |                                     |   |
| Material Handling in Mines                    |  |                                       |                               |                                     |   |

Date: 09-01-2023

Sd/-

**CONTROLLER OF EXAMINATIONS**

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|--|-------------------------------------|--------------------------------|-----------------------------|---------------------------------|--|
| <b>MECHANICAL<br/>ENGINEERING</b><br><br>(03-ME) | Refrigeration & Air<br>Conditioning | E2                             | E3                          | E4                              | OE2  |
|  |                                     | Additive<br>Manufacturing      | Power Plant Engineering     | Computational Fluid<br>Dynamics | Remote Sensing & GIS                       |
|  |                                     | Automation in<br>Manufacturing | Automobile Engineering      | Turbo Machinery                 | Data Structures                            |
|  |                                     | MEMS                           | Renewable Energy<br>Sources | Fluid Power Systems             | Artificial Intelligence                    |
|  |                                     |                                |                             |                                 | Python Programming                         |
|  |                                     |                                |                             |                                 | Java Programming                           |
|  |                                     |                                |                             |                                 | Fundamentals of Biomedical<br>Applications |
|  |                                     |                                |                             |                                 | Electronic Sensors                         |
|  |                                     |                                |                             |                                 | Utilization of Electrical<br>Energy        |
|  |                                     |                                |                             |                                 | Electric Drives and Control                |
|  |                                     |                                |                             |                                 | Basics of Aeronautical<br>Engineering      |
|  |                                     |                                |                             |                                 | Intellectual Property Rights               |
|  |                                     |                                |                             |                                 | Principles of Entrepreneurship             |
|  |                                     |                                |                             |                                 | Engineering Materials                      |
|  |                                     |                                | Surface Engineering         |                                 |  |
|  |                                     |                                | Natural Gas Engineering     |                                 |  |
|  |                                     |                                | Health & Safety in Mines    |                                 |  |
|  |                                     |                                | Material Handling in Mines  |                                 |  |

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|---|--|--|-------------------------------|--------------------------------------|--|-----------------|
| <b>ELECTRONICS<br/>AND<br/>COMMUNICATION<br/>ENGINEERING</b><br><br><b>(04-ECE)</b> | Microwave and<br>Optical<br>Communications | Professional<br>Practice law &<br>Ethics | E3                            | E4                                   | <b>OE2</b>                                 |                 |
|   |  |  |                               |                                      |  | Data Structures |
|   |  |  | Artificial Neural<br>Networks | Biomedical Instrumentation           | Artificial Intelligence                    |                 |
|   |  |  |                               |                                      | Remote Sensing & GIS                       |                 |
|   |  |  |                               |                                      | Python Programming                         |                 |
|   |  |  | Scripting Languages           | Database Management<br>Systems       | Java Programming                           |                 |
|   |  |  | Digital Image<br>Processing   |                                      | Fundamentals of Biomedical<br>Applications |                 |
|   |  |  |                               |                                      | Utilization of Electrical Energy           |                 |
|   |  |  |                               | Network Security and<br>Cryptography | Electric Drives and Control                |                 |
|   |  |  |                               |                                      | Basic Mechanical Engineering               |                 |
|   |  |  |                               |                                      | Basics of Aeronautical Engineering         |                 |
|   |  |  |                               |                                      | Intellectual Property Rights               |                 |
|   |  |  |                               |                                      | Principles of Entrepreneurship             |                 |
|   |  | Natural Gas Engineering                  |                               |                                      |  |                 |
|   |  | Engineering Materials                    |                               |                                      |  |                 |
|   |  | Surface Engineering                      |                               |                                      |  |                 |
|   |  | Health & Safety in Mines                 |                               |                                      |  |                 |
|   |  | Material Handling in Mines               |                               |                                      |  |                 |

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|--|-----------------------------------|---|-----------------------------------|------------------------------------|-------------------------|
| <b>ELECTRONICS<br/>AND<br/>INSTRUMENTATION<br/>ENGINEERING</b><br><br>(10-EIE) | Analytical<br>Instrumentati<br>on | Professional<br>Practice, Law &<br>Ethics | E3                                | E4                                 | OE2                     |
|  |                                   |   | Pharmaceutical<br>Instrumentation | Biomedical<br>Instrumentation      | Remote Sensing & GIS    |
|  |                                   |   | Virtual<br>Instrumentation        |                                    | Data Structures         |
|  |                                   |   | MEMS and its<br>applications      | Computer Networks                  | Artificial Intelligence |
|  |                                   |   | Artificial Neural<br>Networks     |                                    | Python Programming      |
|  |                                   |   |                                   |                                    | Java Programming        |
|  |                                   |   |                                   | Electronic Sensors                 |                         |
|  |                                   |   |                                   | Utilization of Electrical Energy   |                         |
|  |                                   |   | Natural Gas Engineering           | Electric Drives and Control        |                         |
|  |                                   |   |                                   | Basic Mechanical Engineering       |                         |
|  |                                   |   |                                   | Basics of Aeronautical Engineering |                         |
|  |                                   |   |                                   | Intellectual Property Rights       |                         |
|  |                                   |   |                                   | Principles of Entrepreneurship     |                         |
|  |                                   |   |                                   | Engineering Materials              |                         |
| Surface Engineering  |                                   |   |                                   |                                    |                         |
| Health & Safety in Mines   |                                   |   |                                   |                                    |                         |
| Material Handling in Mines   |                                   |   |                                   |                                    |                         |

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|--|---------------------------|-----------------------------|--|--|---|
| <b>MECHANICAL<br/>ENGINEERING<br/>(MECHATRONICS)</b><br><br><b>(14-MECT)</b> | Automobile<br>Engineering | E2                          | E3   | E4   | OE2   |
|  |                           | Operations<br>Research      |  | Power Plant<br>Engineering                       | Computational Fluid<br>Dynamics   |
|  |                           | Computer<br>Organization    | Product Design &<br>Assembly<br>Automation | Advanced Kinematics and<br>Dynamics of Machinery | Artificial Intelligence<br>Python Programming   |
|  |                           | Advanced Data<br>Structures | Renewable Energy<br>Sources                | Flexible Manufacturing<br>Systems                | Java Programming<br>Fundamentals of Biomedical Applications<br>Electronic Sensors<br>Utilization of Electrical Energy<br>Electric Drives and Control<br>Basics of Aeronautical Engineering<br>Natural Gas Engineering<br>Engineering Materials<br>Surface Engineering<br>Health & Safety in Mines<br>Material Handling in Mines |

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|--|------------------------------------|--|--|--|--|
| <b>METALLURGICAL<br/>AND MATERIALS<br/>ENGINEERING</b><br><br>(18-MMT) | Introduction to<br>Instrumentation | Fundamentals of<br>Management for<br>Engineers | E3   | E4                                     | OE2  |
|  |                                    |  | Alternate Routes of<br>Iron & Steel Making | Functional Materials                   | Remote Sensing & GIS                       |
|  |                                    |  |  | Computational Materials<br>Engineering | Data Structures                            |
|  |                                    |  |  | Ceramics Science and<br>Technology     | Artificial Intelligence                    |
|  |                                    |  | Bio Materials                              | Non-Destructive<br>Testing             | Python Programming                         |
|  |                                    |  |  | Non-Destructive<br>Testing             | Java Programming                           |
|  |                                    |  |  | Non-Destructive<br>Testing             | Fundamentals of Biomedical<br>Applications |
|  |                                    |  | Non-Destructive<br>Testing                 | Non-Destructive<br>Testing             | Electronic Sensors                         |
|  |                                    |  | Non-Destructive<br>Testing                 | Non-Destructive<br>Testing             | Utilization of Electrical Energy           |
|  |                                    |  | Non-Destructive<br>Testing                 | Non-Destructive<br>Testing             | Electric Drives and Control                |
|  |                                    |  | Non-Destructive<br>Testing                 | Non-Destructive<br>Testing             | Basic Mechanical Engineering               |
|  |                                    |  | Non-Destructive<br>Testing                 | Non-Destructive<br>Testing             | Basics of Aeronautical Engineering         |
|  |                                    |  | Non-Destructive<br>Testing                 | Non-Destructive<br>Testing             | Intellectual Property Rights               |
|  |                                    |  | Non-Destructive<br>Testing                 | Non-Destructive<br>Testing             | Principles of Entrepreneurship             |
|  |                                    |  | Non-Destructive<br>Testing                 | Non-Destructive<br>Testing             | Natural Gas Engineering                    |
| Non-Destructive<br>Testing   | Non-Destructive<br>Testing         | Health & Safety in Mines                       |  |  |  |
| Non-Destructive<br>Testing   | Non-Destructive<br>Testing         | Material Handling in Mines                     |  |  |  |

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|---|----------------------------------|--------------------------|---|-------------------------|--|
| <b>AERONAUTICAL<br/>ENGINEERING<br/>(21-AE)</b> | Vibration and<br>Aero-elasticity | E2                       | E3  | E4                      | OE2  |
|   |                                  | Space Mechanics          | Experimental<br>Aerodynamics              | Industrial Aerodynamics | Remote Sensing & GIS                       |
|   |                                  |                          |   |                         | Data Structures                            |
|   |                                  |                          |   |                         | Artificial Intelligence                    |
|   |                                  | Rockets and Missiles     | Hypersonic<br>Aerodynamics                | Turbo Machinery         | Python Programming                         |
|   |                                  |                          |   |                         | Java Programming                           |
|   |                                  |                          |   |                         | Fundamentals of Biomedical<br>Applications |
|   |                                  | Wind Tunnel<br>Technique | Advanced<br>Computational<br>Aerodynamics | Theory of Combustion    | Electronic Sensors                         |
|   |                                  |                          |   |                         | Utilization of Electrical Energy           |
|   |                                  |                          |   |                         | Electric Drives and Control                |
|   |                                  |                          |   |                         | Basic Mechanical Engineering               |
|   |                                  |                          |   |                         | Intellectual Property Rights               |
|   |                                  |                          |   |                         | Principles of Entrepreneurship             |
|   |                                  |                          |   |                         | Natural Gas Engineering                    |
|   |                                  |                          |   |                         | Engineering Materials                      |
|   |                                  |                          | Surface Engineering                       |                         |  |
|   |                                  |                          | Health & Safety in Mines                  |                         |  |
|   |                                  |                          | Material Handling in Mines                |                         |  |

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|--------------------------------------|---|----------------------|---|-----------------------------------|-------------------------|
| <b>MINING<br/>ENGG.<br/>(25-MNE)</b> | Underground<br>Metal Mining<br>Technology | Mine Legislation     | E3                                      | E4                                | OE2                     |
|                                      |   |                      | Advanced Surface Mining                 | Rock Slope Technology             | Remote Sensing & GIS    |
|                                      |   |                      |   | Mine Systems Engineering          | Data Structures         |
|                                      |   |                      | Rock Fragmentation<br>Engineering       |                                   | Artificial Intelligence |
|                                      |   |                      |   | Risk Assessment and<br>Management | Python Programming      |
|                                      |   |                      | Java Programming                        |                                   |                         |
|                                      |   |                      | Fundamentals of Biomedical Applications |                                   |                         |
|                                      |   |                      | Electronic Sensors                      |                                   |                         |
|                                      |   |                      | Utilization of Electrical Energy        |                                   |                         |
|                                      |   |                      | Electric Drives and Control             |                                   |                         |
|                                      |   |                      | Basic Mechanical Engineering            |                                   |                         |
|                                      |   |                      | Basics of Aeronautical Engineering      |                                   |                         |
|                                      |   |                      | Intellectual Property Rights            |                                   |                         |
|                                      |   |                      | Principles of Entrepreneurship          |                                   |                         |
| Natural Gas Engineering              |   |                      |   |                                   |                         |
| Engineering Materials                |   |                      |   |                                   |                         |
| Surface Engineering                  |   |                      |   |                                   |                         |

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|---|--|--|------------------------------------|---|-------------------------|
| <b>PETROLEUM<br/>ENGINEERING</b><br><br>(27 - PTME) | Petroleum<br>Economics,<br>Policies & Laws | E2   | E3                                 | E4                                      | OE2                     |
|   |  | Optimization of<br>Upstream<br>Processes     | Shale Gas Reservoir<br>Engineering | Pipeline Maintenance<br>Engineering     | Remote Sensing & GIS    |
|   |  |  |                                    |   | Data Structures         |
|   |  |  | Petroleum Reservoir<br>Stimulation | Natural Gas Processing                  | Artificial Intelligence |
|   |  | Python Programming                           |                                    |   |                         |
|   |  | Petroleum Reservoir<br>Modeling & Simulation | Petrochemical Engineering          | Java Programming                        |                         |
|   |  |  |                                    | Fundamentals of Biomedical Applications |                         |
|   |  |  |                                    | Electronic Sensors                      |                         |
|   |  | Chemical<br>Reaction<br>Engineering          | Offshore<br>Engineering            | Utilization of Electrical Energy        |                         |
|   |  |  |                                    | Electric Drives and Control             |                         |
|   |  | Offshore<br>Engineering                      | Offshore<br>Engineering            | Basic Mechanical Engineering            |                         |
|   |  |  |                                    | Basics of Aeronautical Engineering      |                         |
|   |  |  |                                    | Intellectual Property Rights            |                         |
|   |  |  |                                    | Principles of Entrepreneurship          |                         |
|   |  | Offshore<br>Engineering                      | Offshore<br>Engineering            | Engineering Materials                   |                         |
| Surface Engineering                                 |  |  |                                    |   |                         |
| Health & Safety in Mines                            |  |  |                                    |   |                         |
| Offshore<br>Engineering                             | Offshore<br>Engineering                    | Material Handling in Mines                   |                                    |   |                         |

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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.
- (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