



# THE INSTITUTION OF ENGINEERS (INDIA)

## Summer 2022 Examination

The Summer 2022 Examinations of Sections 'A' and 'B' shall be conducted from **18 March 2023 to 24 March 2023**.

### DATE OF ONLINE SUBMISSION OF SUMMER 2022 EXAMINATION APPLICATION FORM:

Aspiring candidates are requested to apply through IEI **online portal** along with examination fee within the stipulated date mentioned below

|                         |               |
|-------------------------|---------------|
| LAST DATE OF SUBMISSION | 08 MARCH 2023 |
|-------------------------|---------------|

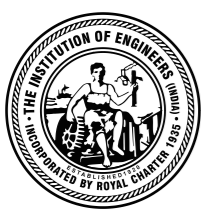
### Examination fee

|  |           |
|--|-----------|
|  | For India |
|  | INR       |
| Section A (Diploma), Section A (Non-diploma) & Section B | Rs .3000  |

### Mode of Payment of Fees

Candidates desire to apply for Summer 2022 Examination, should submit the Examination Application **only through online portal** available in IEI website [WWW.ieindia.org](http://WWW.ieindia.org) and make the payment of fees through online payment Gateway.

**PAYMENT THROUGH DEMAND DRAFT WILL NOT BE ACCEPTED**



# PROGRAMME OF SUMMER 2022 EXAMINATION

|                                      |                    | SECTION A   |   | SECTION B  |   |   |   |  |  |   |   |  |   |
|--------------------------------------|--------------------|---|---|--|---|---|---|--|--|---|---|--|---|
| DAY / DATE OF EXAMINATION            | SESSION            | NON-DIPLOMA SCHEME  | DIPLOMA SCHEME  | CHEMICAL ENGINEERING (BRANCH CODE 04)  | CIVIL ENGINEERING (BRANCH CODE 05)  | COMPUTER SCIENCE AND ENGINEERING (BRANCH CODE 06)                                       | ELECTRICAL ENGINEERING (BRANCH CODE 07)   | ELECTRONICS & COMMUNICATION ENGINEERING (BRANCH CODE 08)   | MECHANICAL ENGINEERING (BRANCH CODE 11)  | MATERIALS & METALLURGICAL ENGINEERING (BRANCH CODE 12)  | MINING ENGINEERING (BRANCH CODE 13)   | PRODUCTION ENGINEERING (BRANCH CODE 14)  | TEXTILE ENGINEERING (BRANCH CODE 15)  |
| FIRST DAY<br>SATURDAY<br>18.03.2023  | 10 AM TO 1 PM      | <b>AN 201</b><br>Fundamentals of Design and Manufacturing | <b>AD 301</b><br>Fundamentals of Design and Manufacturing | <b>CH 411</b><br>Mass Transfer Operations<br><b>CH 421</b><br>Fuels and Combustion   | <b>CV 411</b><br>Advanced Structural Analysis<br><b>CV 421</b><br>Principles of Environmental Engineering   | <b>CP 411</b><br>Graph Theory and Combinatorics<br><b>CP 421</b><br>Parallel Processing | <b>EL 411</b><br>Energy Systems<br><b>EL 421</b><br>Advanced Aspects of Electrical Machines   | <b>EC 411</b><br>Broadcast and Television Engineering<br><b>EC 421</b><br>Digital Hardware Design  | <b>MC 423</b><br>Analysis and Synthesis of Mechanisms and Machines<br><b>MC 431</b><br>Manufacturing Science   | <b>MM 411</b><br>Mineral Engineering  | <b>MN 411</b><br>Advanced Mine Ventilation<br><b>MN 421</b><br>Mine Systems Engineering   | <b>PR 411</b><br>Manufacturing Science<br><b>PR 421</b><br>Facility Planning, Design and Maintenance | <b>TX 411</b><br>Advanced Yarn Manufacture  |
|                                      | 2.30 PM TO 5.30 PM |   |   |  | <b>CV 431</b><br>Transportation Engineering   | <b>CP 431</b><br>Pattern Recognition and Image Processing                               | <b>EL 431</b><br>Control Theory   | <b>EC 431</b><br>Sensors and Transducers   | <b>MC 411</b><br>Refrigeration and Air-conditioning  | <b>MM 432</b><br>Welding and Allied Processes   | <b>MN 431</b><br>Advanced Rock Mechanics  | <b>PR 431</b><br>Materials Management  | <b>TX 421</b><br>Advanced Fabric Manufacture and Design   |
| SECOND DAY<br>SUNDAY<br>19.03.2023   | 10 AM TO 1 PM      | <b>AN 202</b><br>Material Science and Engineering         | <b>AD 302</b><br>Material Science and Engineering         | <b>CH 412</b><br>Heat Transfer Operations<br><b>CH 422</b><br>Biochemical Engineering                                      | <b>CV 432</b><br>Traffic and Transportation Systems   | <b>CP 415</b><br>Database Management Systems<br><b>CP 435</b><br>Software Engineering   | <b>EL 414</b><br>Power System Performance   | <b>EC 415</b><br>Computer Networks and Communication<br><b>EC 425</b><br>Software Engineering  | <b>MC 421</b><br>Design of Mechanical Systems  | <b>MM 412</b><br>Fuels, Furnaces and Refractories<br><b>MM 422</b><br>Electrometallurgy and Corrosion                                     | <b>MN 412</b><br>Environmental Pollution and Control in Mines<br><b>MN 422</b><br>Economics of Mining Enterprises                                     | <b>PR 425</b><br>Work Study and Ergonomics   |   |
|                                      | 2.30 PM TO 5.30 PM |   |   | <b>CH 432</b><br>Petrochemical Engineering   | <b>CV 425</b><br>Waste Management and Environmental Impact Assessment   |   | <b>EL 424</b><br>Electrical Power Utilisation<br><b>EL 434</b><br>Instrumentation Systems   | <b>EC 432</b><br>Industrial Instrumentation and Computer Control   | <b>MC 413</b><br>Non-conventional Energy Systems<br><b>MC 433</b><br>Tool and Die Design   |   | <b>MN 432</b><br>Advanced Methods of Mining   | <b>PR 413</b><br>Tool and Die Design   | <b>TX 431</b><br>Advanced Chemical Processing and Finishing   |
| THIRD DAY<br>MONDAY<br>20.03.2023    | 10 AM TO 1 PM      | <b>AN 203</b><br>Computing and Informatics                | <b>AD 303</b><br>Computing and Informatics                | <b>IC 402</b><br>Engineering Management  |   |   |   |  |  |   |   |  |   |
|                                      | 2.30 PM TO 5.30 PM |   |   | <b>CH 431</b><br>Polymer Materials and Technology  | <b>CV 412</b><br>Design of RCC and Prestressed Concrete Structures<br><b>CV 422</b><br>Environmental Engineering - Processes and Management           | <b>CP 412/422</b><br>Computer Networks<br><b>CP 432</b><br>Theory of Computation        | <b>EL 412/422/432</b><br>Power Electronics  | <b>EC 413</b><br>Microwave Engineering<br><b>EC 423</b><br>IC Design Techniques<br><b>EC 433</b><br>Biomedical Electronics                                   | <b>MC 412</b><br>Power Plant Engineering<br><b>MC 422</b><br>Optimisation - Theory and Applications<br><b>MC 432</b><br>Computer Aided Manufacturing | <b>MM 421/431</b><br>Polymer Materials and Technology   | <b>MN 414/434</b><br>Mine Surveying   | <b>PR 412/432</b><br>Computer Aided Manufacturing<br><b>PR 422</b><br>Project Management             | <b>TX 412</b><br>Modern Yarn Production and Control Systems<br><b>TX 422</b><br>Non-woven, Knitting and Industrial Fabrics<br><b>TX 432</b><br>Garment Technology |
| FOURTH DAY<br>TUESDAY<br>21.03.2023  | 10 AM TO 1 PM      | <b>AN 204</b><br>Society and Environment                  | <b>AD 304</b><br>Society and Environment                  | <b>CH 403</b><br>Chemical Reaction Engineering   | <b>CV 403</b><br>Civil Engineering Materials and Construction Practices   | <b>CP 403</b><br>Data Structures  | <b>EL 403</b><br>Power Systems  | <b>EC 403</b><br>Communication Engineering   | <b>MC 403</b><br>Mechanics of Solids   | <b>MM 403</b><br>Metallurgical Thermodynamics and Kinetics  | <b>MN 403</b><br>Mining Geology and Development of Mineral Deposits   | <b>PR 403</b><br>Mechanics of Solids   | <b>TX 403</b><br>Textile Fibres and Testing   |
|                                      | 2.30 PM TO 5.30 PM |   |   | <b>CH 404</b><br>Transport Phenomena   | <b>CV 404</b><br>Geotechnical and Foundation Engineering  | <b>CP 404</b><br>Programming Languages  | <b>EL 404</b><br>Circuit and Field Theory   | <b>EC 404</b><br>Circuit Theory and Control  | <b>MC 434</b><br>Manufacturing Automation  | <b>MM 404</b><br>Extractive Metallurgy  | <b>MN 404</b><br>Exploitation of Mineral Deposits   | <b>PR 404</b><br>Manufacturing Automation  | <b>TX 404</b><br>Yarn Manufacture   |
| FIFTH DAY<br>WEDNESDAY<br>22.03.2023 | 10 AM TO 1 PM      | <b>AN 205</b><br>Mechanical Science                       |   | <b>CH 413/423</b><br>Mechanical Operations<br><b>CH 433</b><br>Industrial Pollution and Control                            | <b>CV 413</b><br>Design of Steel Structures<br><b>CV 423</b><br>Air Pollution and Its Control<br><b>CV 433</b><br>Town Planning and Urban Development | <b>CP 413/423/433</b><br>Operating Systems  | <b>EL 413</b><br>High Voltage Engineering and Power Apparatus<br><b>EL 423</b><br>Electrical Drives<br><b>EL 433</b><br>Process Control Systems | <b>EC 435</b><br>Control Systems   | <b>MC 404</b><br>Mechanics of Fluids   | <b>MM 413</b><br>Ferrous Extractive Metallurgy<br><b>MM 423/433</b><br>Advanced Physical Metallurgy                                       | <b>MN 413</b><br>Electrical Equipment and Instrumentation in Mines<br><b>MN 423</b><br>Geostatistics<br><b>MN 433</b><br>Mine Planning and Excavation | <b>PR 423/433</b><br>Quality Management  | <b>TX 413/423</b><br>Engineering Design of Textile Structures<br><b>TX 433</b><br>Chemistry and Technology of Man-made Fibres                                     |
|                                      | 2.30 PM TO 5.30 PM | <b>AN 206</b><br>Engineering Physics and Chemistry        |   | <b>CH 405</b><br>Chemical Engineering Thermodynamics   | <b>CV 405</b><br>Water Resources Systems  | <b>CP 405</b><br>Pulse and Digital Circuits   | <b>EL 405</b><br>Electrical Machines  | <b>EC 412</b><br>Radar and Antenna Engineering<br><b>EC 422</b><br>Pulse and Digital Circuits  | <b>MC 415</b><br>Turbomachinery<br><b>MC 425</b><br>Computer Aided Engineering Design<br><b>MC 435</b><br>Production Management                      | <b>MM 405</b><br>Mechanical Behaviour of Materials  | <b>MN 405</b><br>Mining Machinery and Material Handling   | <b>PR 405</b><br>Production Management   | <b>TX 405</b><br>Fabric Manufacture and Design  |
| SIXTH DAY<br>THURSDAY<br>23.03.2023  | 10 AM TO 1 PM      | <b>AN 207</b><br>Engineering Drawing and Graphics         |   | <b>CH 406</b><br>Chemical Process Principles   | <b>CV 406</b><br>Principles of Geoinformatics   | <b>CP 406</b><br>Computer Architecture  | <b>EL 406</b><br>Measurements and Control   | <b>EC 406</b><br>Electronic Circuits   | <b>MC 406</b><br>Manufacturing Technology  | <b>MM 406</b><br>Physical Metallurgy  | <b>MN 406</b><br>Mine Ventilation and Environmental Hazards   | <b>PR 406</b><br>Manufacturing Technology  | <b>TX 406</b><br>Chemical Processing and Finishing  |
|                                      | 2.30 PM TO 5.30 PM | <b>AN 208</b><br>Electronics and Instrumentation          |   | <b>CH 414</b><br>Fluid Mechanics<br><b>CH 424</b><br>Chemical Process Technology<br><b>CH 434</b><br>Fertilizer Technology | <b>CV 414</b><br>Structural Dynamics<br><b>CV 424/434</b><br>Design of Water and Wastewater Treatment Systems   | <b>CP 425</b><br>Microprocessors and Microcontrollers                                   | <b>EL 415/425/435</b><br>Microprocessors and Microcontrollers   | <b>EC 405</b><br>Microprocessors and Microcontrollers  | <b>MC 405</b><br>Thermal Science and Engineering   | <b>MM 414</b><br>Non-ferrous Extractive Metallurgy<br><b>MM 424</b><br>Materials Characterisation<br><b>MM 434</b><br>Foundry Engineering | <b>MN 424</b><br>Quality, Reliability and Safety in Mines   | <b>PR 415</b><br>Inspection and Product Control<br><b>PR 424/434</b><br>Operations Research          | <b>TX 414/424</b><br>Textile Machinery and Maintenance<br><b>TX 434</b><br>Energy Conservation, Environmental and Pollution Control                               |
| SEVENTH DAY<br>FRIDAY<br>24.03.2023  | 10 AM TO 1 PM      | <b>AN 209</b><br>Engineering Mathematics                  |   | <b>CH 415/425/435</b><br>Instrumentation and Control   | <b>CV 415</b><br>Seismic Design of Structures<br><b>CV 435</b><br>Construction Management Systems   | <b>CP 414</b><br>Artificial Intelligence<br><b>CP 424/434</b><br>Computer Graphics      |   | <b>EC 414</b><br>Optical and Satellite Communication<br><b>EC 424</b><br>Solid State Physics and Semiconductor Devices<br><b>EC 434</b><br>Signal Processing | <b>MC 414</b><br>Internal Combustion Engines<br><b>MC 424</b><br>Design of Machine Tools   | <b>MM 415</b><br>Instrumentation and Control<br><b>MM 425</b><br>Ceramic Materials<br><b>MM 435</b><br>Mechanical Working Processes       | <b>MN 415/425/435</b><br>Mine Management and Legislation  | <b>PR 414</b><br>Design of Machine Tools<br><b>PR 435</b><br>Operations Planning and Control         | <b>TX 415/425/435</b><br>Mill Organisation, Process Economics and Quality Control   |
|                                      | 2.30 PM TO 5.30 PM | <b>AN 210</b><br>Electrical Science                       |   | <b>CH 407</b><br>Chemical Engineering Equipment Design   | <b>CV 407</b><br>Analysis and Design of Structures  | <b>CP 407</b><br>Systems Analysis and Design  | <b>EL 407</b><br>Design of Electrical Systems   | <b>EC 407</b><br>Design of Electronic Devices and Circuits   | <b>MC 407</b><br>Design of Machine Elements  | <b>MM 407</b><br>Metallurgical Design   | <b>MN 407</b><br>Geomechanics and Mine Design   | <b>PR 407</b><br>Design of Machine Elements  | <b>TX 407</b><br>Design and Mechanisms of Textile Machines  |

Forenoon Session (FN) : IST 10 AM - 01 PM

NO CANDIDATE IS ALLOWED AT THE EXAMINATION HALL WITHOUT VALID IEI IDENTITY CARD

Afternoon Session (AN) : IST 2.30 PM - 5.30 PM