

## **Exams for Spring/Summer 2025**

*Last updated September 12/2024*

**04-BS-1 / 20-GFund-5**, Mathematics

**04-BS-2 / 20-GFund-12**, Probability and Statistics

**04-BS-3**, Statics and Dynamics

**04-BS-4**, Electric Circuits and Power

**04-BS-5 / 20-GFund-4**, Advanced Mathematics

**04-BS-6**, Mechanics of Materials

**04-BS-7**, Mechanics of Fluids

**04-BS-8**, Digital Logic Circuits

**04-BS-9**, Basic Electromagnetics

**04-BS-10 / 20-GFund-7**, Thermodynamics

**04-BS-11**, Properties of Materials

**04-BS-12 / 20-GFund-10**, Organic Chemistry

**04-BS-13, / 20-GFund-8** Biology

**04-BS-14**, Geology

**04-BS-15**, Engineering Graphics & Design Process

**04-BS-16**, Discrete Mathematics

*(see rest of GFund exams listed with the Prelim exams on the last page)*

**98-CS-1**, Engineering Economics

**98-CS-2**, Engineering in Society - Health, Safety, and the Environment

**98-CS-3**, Management Concepts for Engineers

**16-Chem-A1**, Process Balances and Chemical Thermodynamics

**16-Chem-A2**, Unit Operations & Separation Processes

**16-Chem-A3**, Heat and Mass Transfer

**16-Chem-A4**, Chemical Reactor Engineering

**16-Chem-A5**, Chemical Plant Design and Economics

**16-Chem-A6**, Process Dynamics and Control

**16-Chem-B1**, Transport Phenomena

**16-Chem-B2**, Environmental Engineering

**16-Chem-B4**, Biochemical Engineering

**16-Chem-B5**, Pulp and Paper Technology

**16-Chem-B6**, Petroleum Refining and Petrochemicals

**16-Chem-B8**, Polymer Engineering

**16-Chem-B10**, Life Cycle Assessment

**16-Civ-A1**, Elementary Structural Analysis

**16-Civ-A2**, Elementary Structural Design

**16-Civ-A3**, Elementary Environmental Engineering

**16-Civ-A4**, Geotechnical Materials and Analysis

**16-Civ-A5**, Hydraulic Engineering

**16-Civ-A6**, Highway Design, Construction, and Maintenance

**16-Civ-B1**, Advanced Structural Analysis

**16-Civ-B2**, Advanced Structural Design

**16-Civ-B3**, Geotechnical Design

**16-Civ-B4**, Engineering Hydrology

**16-Civ-B5**, Water Supply and Wastewater Treatment

**16-Civ-B6**, Urban and Regional Planning

**16-Civ-B7**, Transportation Planning and Engineering

**16-Civ-B8**, Management of Construction

**16-Civ-B9**, The Finite Element Method

**16-Civ-B10**, Traffic Engineering

**16-Civ-B11**, Structural Materials

**16-Civ-B12**, Risk & Safety in Civil Engineering

**16-Civ-B13**, Numerical Methods

**17-Comp-A3**, Computer Architecture

**17-Comp-A4**, Program Design and Data Structures

**17-Comp-B1**, Advanced Computer Architecture

**17-Comp-B10**, Distributed Systems

**17-Comp-B11**, Advanced Software Design

**17-Comp-B12**, Computer Security

**16-Elec-A1**, Circuits

**16-Elec-A2**, Systems and Control

**16-Elec-A3**, Signals and Communications

**16-Elec-A4**, Digital Systems and Computers

**16-Elec-A5**, Electronics

**16-Elec-A6**, Power Systems and Machines

**16-Elec-A7**, Electromagnetics

**16-Elec-B1**, Digital Signal Processing

**16-Elec-B2**, Advance Control Systems

**16-Elec-B3**, Digital Communications systems

**16-Elec-B4**, Information Technology Networks

**16-Elec-B5**, Advanced Electronics

**16-Elec-B6**, Integrated Circuit Engineering

**16-Elec-B7**, Power Systems Engineering

**16-Elec-B8**, Power Electronics and Drives

**16-Elec-B9**, Electromagnetic Field, Transmission

**16-Elec-B10**, Electro-Optical Engineering

**18-Env-A6**, Solid Waste Engineering and Management

**18-Env-B3**, Contaminant Transport

**18-Geol-A1 / 20-Glgy-1**, Mineralogy and Petrology

**18-Geol-A2 / 20-Glgy-11**, Hydrogeology

**18-Geol-A3 / 20-Glgy-2**, Sedimentation and Stratigraphy

**18-Geol-A4 / 20-Glgy-6**, Structural Geology

**18-Geol-A5 / 20-Glgy-23**, Rock Mechanics

**18-Geol-A6** , Soil Mechanics

**18-Geol-A7 / 20-Glgy-18**, Applied Geophysics

**18-Geol-B4 / 20-Glgy-9**, Geomorphology and Pleistocene Geology

**20-Glgy-4**, Sedimentary Petrology

**20-Glgy-7**, Geochemistry

**20-Glgy-10**, Glacial and Quaternary Geology

**20-Glgy-14**, Economic Geology

**20-Glgy-20**, Advanced Sedimentology

**18-Geom-A7**, Geospatial Information Systems

**18-Geom-B2**, Satellite Navigation

**17-Ind-A1**, Operations Research

**17-Ind-A2**, Analysis & Design of Work

**17-Ind-A3**, Facilities Planning

**17-Ind-A4**, Production Management

**17-Ind-A5**, Quality Planning, Control, and Assurance

**17-Ind-A6**, System Simulation

**17-Ind-B1**, Applied Probability and Statistics

**17-Ind-B2**, Manufacturing Processes

**17-Ind-B3**, Computer Aided Design and Computer-Assisted Manufacturing

**17-Ind-B5**, Ergonomics

**17-Ind-B6**, Workplace Design

**17-Ind-B10**, Workplace Health and Safety

**16-Mec-A1**, Applied Thermodynamics and Heat Transfer

**16-Mec-A2**, Kinematics and Dynamics of Machines

**16-Mec-A3**, System Analysis and Control

**16-Mec-A4**, Design and Manufacture of Machine Elements

**16-Mec-A5**, Electrical and Electronics Engineering

**16-Mec-A6**, Advanced Fluid Mechanics (Mec-B6 national)

**16-Mec-A7**, Advanced Strength of Materials

**16-Mec-B1**, Advanced Machine Design

**16-Mec-B2**, Environmental Control in Buildings

**16-Mec-B3**, Energy Conversion and Power Generation

**16-Mec-B4**, Integrated Manufacturing Systems

**16-Mec-B5**, Product Design and Development

**16-Mec-B6**, Fluid Machinery (Mec-A6 national)

**16-Mec-B7**, Aero and Space Flight

**16-Mec-B8**, Engineering Materials

**16-Mec-B9**, Advanced Engineering Structures

**16-Mec-B10**, Finite Element Analysis

**16-Mec-B12**, Robotics Mechanics

**16-Mec-B13**, Biomechanics

**10-Met-A3**, Metal Extraction Processes

**10-Met-A4**, Structure of Materials

**10-Met-A6**, Phase Transformation and Thermal Treatment of Metals and Alloys

**10-Met-A7**, Corrosion and Oxidation

**10-Met-B6**, Physical Metallurgy of Iron and Steel

**18-Mmp-A4**, Mine Valuation and Mineral Resource Estimation

**18-Mmp-A6**, Mining and the Environment

**18-Mmp-B5**, Mill Design and Operations

**18-Mmp-B6**, Mill Process Control

**17-Pet-A1**, Principles of Stratigraphy and Sedimentation

**17-Pet-A2**, Petroleum Reservoir Fluids

**17-Pet-A3**, Fundamental Reservoir Engineering

**17-Pet-A6**, Reservoir Mechanics

**17-Pet-B4**, Petroleum Geology

**17-Phy-A3**, Signals and Communications

**17-Phys-B3**, Digital Systems and Computers

**17-Phys-B5**, Systems and Control

**17-Phys-B6**, Applied Thermodynamics and Heat Transfer

**17-Phys-B7**, Structure of Materials

**20-Prelim-1 / 2020-GFund-1a + 1b**, Calculus

**20-Prelim-2**, Computing

**20-Prelim-3 / 2020-GFund-2a + 2b** , Physics

**20-Prelim-4 / 2020-GFund-3a + 3b**, Chemistry

**19-Soft-A2**, Computing Architecture and Operating Systems

**19-Soft-B8**, Distributed Systems