Exams for Fall/Winter 2025

Last updated April 2, 2025

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 (11-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-B4/04-Agric-B10, 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-A1/07-Str-A1, Elementary Structural Analysis

16-Civ-A2/07-Str-A2, Elementary Structural Design

16-Civ-A3, Elementary Environmental Engineering (national only)

16-Civ-A3/07-Wrse-A6, Municipal and Environmental Engineering (PEO only)

16-Civ-A4/07-Str-A3/07-Tra-A6, Geotechnical Materials and Analysis

16-Civ-A5/07-Str-B11, Hydraulic Engineering

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

16-Civ-B1/07-Str-A4, Advanced Structural Analysis

16-Civ-B2/07-Str-A5, Advanced Structural Design

16-Civ-B3/07-Str-B1, Geotechnical Design

16-Civ-B4/07-Wrse-A2, Engineering Hydrology

16-Civ-B5/07-Wrse-B3, Water Supply and Wastewater Treatment

16-Civ-B6, Urban and Regional Planning

16-Civ-B7, Transportation Planning and Engineering

16-Civ-B8/07-Str-B2, Management of Construction

16-Civ-B9/07-Str-A6-1, 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-A4, Program Design and Data Structures

17-Comp-B3, Data Bases and File System

17-Comp-B12, Computer Security

16-Elec-A1/16-Mex-A2, Circuits

16-Elec-A2/17-Phys-B5, Systems and Control

16-Elec-A3/17-Phy-B4, Signals and Communications

16-Elec-A4/16-Mex-A3/17-Phys-B3, Digital Systems and Computers

16-Elec-A5/16-Mex-A2, Electronics

16-Elec-A6/16-Mex-B10, Power Systems and Machines

16-Elec-A7/17-Phys-A3, Electromagnetics

16-Elec-B1, Digital Signal Processing

16-Elec-B2/16-Mex-B3, 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-A1/07-Wrse-B11, Principles of Environmental

18-Env-A2, Hydrology and Municipal Hydraulics Engineering

18-Env-A3/ 07-Wrse-A3, Geotechnical & Hydrogeological Engineering

18-Env-A4, Water and Wastewater Engineering

18-Env-A5, Air Quality & Pollution Control Engineering

18-Env-B1/07-Wrse-B12, Environmental Assessment & Management Systems

18-Env-B3/07-Wrse-B6, Contaminant Transport

18-Env-B5, Industrial & Hazardous Waste Management

18-Env-B7, Environmental Sampling and Analysis

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

18-Geol-A2 // 20-Glgy-1, 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-B1 20-Glgy-27, Contaminant Hydrogeology

18-Geol-B3, Site Investigation

18-Geol-B6-1 / 20-Glgy-28, Petroleum Deposits

18-Geol-B10-1, Gravity & Magnetic Fields

2020-GFund-1a + 1b = APEGA Exam 04-Prelim-1 Calculus

2020-GFund-2a + 2b = APEGA Exam 04-Prelim-3 Physics

2020-GFund-3a + 3b = APEGA Exam 04-Prelim-4 Chemistry

2020-GFund-4 = NTExam 04-BS-5 Advanced Mathematics

2020-GFund-5 = NTExam 04-BS-1 Mathematics

2020-GFund-6 = APEGA Exam 04-Prelim-2 Computing

2020-GFund-7 = NTExam 04-BS-10 Engineering Thermodynamics

2020-GFund-8 = NTExam 04-BS-13 Biology

2020-GFund-10 = NTExam 04-BS-12 Organic Chemistry

2020-GFund-12 = NTExam 04-BS-2 Probability and Statistics

20-Glgy-4, Sedimentary Petrology

20-Glgy-7, Geochemistry

20-Glgy-8 / 20-Goph 2B-2a, Global Geophysics

20-Glgy-10, Glacial and Quaternary Geology

20-Glgy-13, Petroleum and Natural Gas

20-Glgy-14, Economic Geology

20-Glgy-20, Advanced Sedimentology

18-Geom-A1, Surveying

18-Geom-A3, Geodsey & Positioning

18-Geom-A5, Remote Sensing and Image Analysis

18-Geom-A6, Cadastral Studies

18-Geom-B1, Digital Terrain Modelling

18-Geom-B5, Survey Law

18-Geom-B6, Land Use, Planning and Environmental Management

17-Ind-A1, Operations Research

17-Ind-A2/08-Mfg-A4, Analysis & Design of Work

17-Ind-A3/08-Mfg-A5, Facilities Planning

17-Ind-A4/08-Mfg-A3, Production Management

17-Ind-A5/08-Mfg-A6, Quality Planning, Control, and Assurance

17-Ind-A6/08-Mfg-B3/16-Mex-A6, System Simulation

17-Ind-B1, Applied Probability and Statistics

17-Ind-B2/08-Mfg-A2, Manufacturing Processes

17-Ind-B3/08-Mfg-B1, Computer Aided Design and Computer-Assisted Manufacturing

17-Ind-B5/04-Bio-B11/, 08-Mfg-B12, Ergonomics

17-Ind-B6, Workplace Design

17-Ind-B10/08-Mfg-B9, Workplace Health and Safety

16-Mec-A1/17-Phys-B6/16-Nav-B1/16-Mex-A4, Applied Thermodynamics and Heat Transfer

16-Mec-A2/16-Mex-A5, Kinematics and Dynamics of Machines

16-Mec-A3/16-Mex-A1, System Analysis and Control

16-Mec-A4/08-Mfg-A1, Design and Manufacture of Machine Elements

16-Mec-A5, Electrical and Electronics Engineering

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

16-Mec-A7/98-Mar-A5, Advanced Strength of Materials

16-Mec-B1, Advanced Machine Design

16-Mec-B2, Environmental Control in Buildings

16-Mec-B3/08-Nuc-B9, Energy Conversion and Power Generation

16-Mec-B4/16-Mex-B9, Integrated Manufacturing Systems

16-Mec-B5/08-Mfg-B4/16-Mex-B8, Product Design and Development

16-Mec-B6/98-Mar-B5/08-Mfg-B11, 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-B12/08-Mfg-B8/16-Mex-B5, Robotics Mechanics

16-Mec-B13, Biomechanics

10-Met-A1, Metallurgical Thermodynamics

10-Met-B1, Mineral Processing
'

18-MMP-A1, General Geology and Exploration

18-Mmp-A5, Surface Mining Methods and Design

18-Mmp-B1, Applied Rock Mechanics

18-Mmp-B2, Rock Fragmentation

18-MMP-B4, Occupational Health, Safety and Loss Management

18-Mmp-B9, Rock Slope Engineering

17-Pet-A1, Principles of Stratigraphy and Sedimentation

17-Pet-A2, Petroleum Reservoir Fluids

17-Pet-A3, Fundamental Reservoir Engineering

17-Pet-A4, Oil and Gas Well Drilling and Completion

17-Pet-A6, Reservoir Mechanics

17-Pet-A7, Secondary and Enhanced Recovery

17-Pet-B2, Natural Gas Engineering

17-Pet-B4, Petroleum Geology

17-Phys-A3/16-Elec-A7, Electromagnetics

17-Phys-A6, Solid State Physics

17-Phys-B3/16-Elec-A4/16-Mex-A3, Digital Systems and Computers

17-Phy-B4/16-Elec-A3, Signals and Communications

17-Phys-B5/16-Elec-A2, Systems and Control

17-Phys-B6/16-Mec-A1/16-Nav-B1/16-Mex-A4, Applied Thermodynamics and Heat Transfer

17-Phys-B7/10-Met-A4, 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-A1, Algorithms & Data Structures

19-Soft-A4, Real Time Systems

19-Soft-A5, Requirements and Specifications

19-Soft-A6, Software Quality Assurance

19-Soft-A7, Software Development Process

19-Soft-B6, Software Project Management

19-Soft-B14, Safety Critical Systems

19-Soft-B15, Artificial Intelligence