

Exams for Spring/Summer 2027

July 22, 2026

Basic Studies

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 under Geological exams)

Complementary Studies

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

Agricultural

04-Agric-A6, Physical Properties of Biological Materials and Food Products

Biomedical/Biochemical

04-Bio-A1, Biomaterials and Biocompatibility
04-Bio-A6, Anatomy and Physiology
04-Bio-A7, Fluid Mechanics

Building

07-Bld-A1, Elementary Structural Analysis
07-Bld-A2, Elementary Structural Design
07-Bld-A4, Building Engineering Systems
07-Bld-A6, Geotechnical Materials and Analysis
07-Bld-B2, Advanced Structural Analysis
07-Bld-B3, Advanced Structural Design

07-Bld-B4, Modern Building Materials

Chemical

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-A6/08-Nuc-A7, Process Dynamics and Control
16-Chem-B1, Transport Phenomena
16-Chem-B2, Environmental Engineering
16-Chem-B4/04-Agric-B10, Biochemical Engineering
16-Chem-B6, Petroleum Refining and Petrochemicals
16-Chem-B8, Polymer Engineering
16-Chem-B10, Life Cycle Assessment

Civil

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-B11/07-Wrse-A4, 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 (Nationals only)
16-Civ-B19, Foundation Engineering (Nationals only)

Computer

17-Comp-A1, Electronics
17-Comp-A2, Digital Systems Design
17-Comp-A3, Computer Architecture
17-Comp-A4 – Program Design and Data Structures
17-Comp-A5, Operating Systems
17-Comp-A6, Software Engineering
17-Comp-B11, Advanced Software Design
17-Comp-B13, Mechatronic Design

Electrical

16-Elec-A1/16-Mex-A2, Circuits
16-Elec-A2/17-Phys-B5, Systems and Control
16-Elec-A3/17-Phys-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

Environmental

18-Env-A1/07-Wrse-B11, Principles of Environmental Engineering
18-Env-A2, Hydrology and Municipal Hydraulics Engineering
18-Env-A3, Geotechnical and Hydrogeological Engineering
18-Env-A4, Water and Wastewater Engineering
18-Env-A5, Air Quality & Pollution Control Engineering
18-Env-A6, Solid Waste Engineering and Management
18-Env-B1/07-Wrse-B12, Environmental Assessment & Management Systems
18-Env-B4, Site Assessment and Remediation
18-Env-B5, Industrial & Hazardous Waste Management
18-Env-B9, Environmental Chemistry and Microbiology

Geological

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-B1, Contaminant Hydrogeology
18-Geol-B2, Terrain Analysis
18-Geol-B3, Site Investigation
18-Geol-B10-1, Gravity & Magnetic Fields

2020-GFund-1a + 1b = APEGA Exam 20-Prelim-1 Calculus
2020-GFund-2a + 2b = APEGA Exam 20-Prelim-3 Physics
2020-GFund-3a + 3b = APEGA Exam 20-Prelim-4 Chemistry
2020-GFund-4 = NTEExam 04-BS-5 Advanced Mathematics
2020-GFund-5 = NTEExam 04-BS-1 Mathematics
2020-GFund-6 = APEGA Exam 20-Prelim-2 Computing
2020-GFund-7 = NTEExam 04-BS-10 Engineering Thermodynamics
2020-GFund-8 = NTEExam 04-BS-13 Biology
2020-GFund-10 = NTEExam 04-BS-12 Organic Chemistry
2020-GFund-12 = NTEExam 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

Geomatics

18-Geom-A2, Adjustment of Observations and Data Analysis

Industrial

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

Marine

98-Mar-A5/16-Mec-A7, Advanced Strength of Materials
98-Mar-A7/16-Nav-B2, Marine Engineering
98-Mar-B5/16-Mec-B6/08-Mfg-B11, Fluid Machinery (Mec-A6 national)

Mechanical

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-B13/04-Bio-A4, Biomechanics

Metallurgical

10-Met-A3 Metal Extraction Processes
10-Met-A4/17-Phys-B7, Structure of Materials
10-Met-A5/12-Mtl-A4, Mechanical Behaviour of Materials
10-Met-B2/12-Mtl-B2, Hydrometallurgy and Electrometallurgy
10-Met-B5/12-Mtl-B5, Metal Fabrication

Mechatronics

16-Mex-A1/16-Mec-A3, System Analysis and Control
16-Mex-A2/16-Elec-A1, Circuits
16-Mex-A2/16-Elec-A5, Electronics
16-Mex-A3/16-Elec-A4/17-Phys-B3, Digital Systems and Computers
16-Mex-A4/16-Mec-A1/17-Phys-B6/16-Nav-B1, Applied Thermodynamics and Heat Transfer
16-Mex-A5/16-Mec-A2, Kinematics and Dynamics of Machines
16-Mex-A6/08-Mfg-B3/17-Ind-A6, System Simulation
16-Mex-B3/16-Elec-B2, Advance Control Systems
16-Mex-B5/16-Mec-B12/08-Mfg-B8, Robotics Mechanics
16-Mex-B8/16-Mec-B5/08-Mfg-B4, Product Design and Development
16-Mex-B9/16-Mec-B4, Integrated Manufacturing Systems
16-Mex-B10/16-Elec-A6, Power Systems and Machines

Manufacturing

08-Mfg-A1/16-Mec-A4, Design & Manufacture of Machine Elements
08-Mfg-A2/17-Ind-B2, Manufacturing Processes
08-Mfg-A3/17-Ind-A4, Production Management
08-Mfg-A4/17-Ind-A2, Analysis & Design of Work
08-Mfg-A5/17-Ind-A3, Facilities Planning
08-Mfg-A6/17-Ind-A5, Quality Planning, Control, and Assurance
08-Mfg-B1/17-Ind-B3, Computer Aided Design and Computer-Assisted Manufacturing
08-Mfg-B3/16-Mex-A6/17-Ind-A6, System Simulation
08-Mfg-B4/16-Mec-B5/16-Mex-B8, Product Design and Development
08-Mfg-B5/16-Mec-B8, Engineering Materials
08-Mfg-B6, Metrology
08-Mfg-B8/16-Mec-B12/16-Mex-B5, Robotics Mechanics
08-Mfg-B9/17-Ind-B10, Workplace Health and Safety
08-Mfg-B10, Tooling, Jigs & Fixture Design
08-Mfg-B11/16-Mec-B6/98-Mar-B5, Fluid Machinery (Mec-A6 national)

Materials

12-Mtl-A3, Structure & Characterization of Materials
12-Mtl-A4/10-Met-A5, Mechanical Behaviour of Materials
12-Mtl-B2/10-Met-B2, Hydrometallurgy and Electrometallurgy
12-Mtl-B5/10-Met-B5, Metal Fabrication
12-Mtl-B15, Joining of Materials

Naval

16-Nav-B1/16-Mec-A1/17-Phys-B6/16-Mex-A4, Applied Thermodynamics and Heat Transfer
16-Nav-B2/98-Mar-A7, Marine Engineering

Nuclear

08-Nuc-A3, Nuclear Reactor Design
08-Nuc-A5, Nuclear Detection and Instrumentation
08-Nuc-A6, Nuclear Power Plant Systems & Operation
08-Nuc-B2, Radiation Protection
08-Nuc-B9/16-Mec-B3, Energy Conversion and Power Generation
08-Nuc-B11/16-Elec-A6 /Mex-B10, Power Systems & Machines

Petroleum

17-Pet-A2, Petroleum Reservoir Fluids
17-Pet-A3, Fundamental Reservoir Engineering
17-Pet-A5, Petroleum Production Operation
17-Pet-B2, Natural Gas Engineering

Engineering Physics

17-Phys-A3/16-Elec-A7, Electromagnetics
17-Phys-B3/16-Elec-A4/16-Mex-A3, Digital Systems and Computers
17-Phys-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

Preliminary Studies

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

Software

19-Soft-A3, Software Design
19-Soft-A4, Real Time Systems
19-Soft-A5, Requirements and Specifications
19-Soft-B1, Advanced Software Design
19-Soft-B17, Programming Languages, semantics and implementation

Structural

07-Str-A1/16-Civ-A1, Elementary Structural Analysis
07-Str-A2/16-Civ-A2, Elementary Structural Design
07-Str-A3/07-Tra-A6/16-Civ-A4, Geotechnical Materials and Analysis
07-Str-A4/16-Civ-B1, Advanced Structural Analysis
07-Str-A5/16-Civ-B2, Advanced Structural Design
07-Str-A6-1/16-Civ-B9/07-Str-B3, The Finite Element Method
07-Str-A6-3/07-Str-B10, Earthquake Engineering

07-Str-B1/16-Civ-B3, Geotechnical Design
07-Str-B2/16-Civ-B8, Management of Construction
07-Str-B3/07-Str-A6-1/16-Civ-B9, Applications of the Finite Element Method
07-Str-B7, Forensic Engineering and Rehabilitation
07-Str-B11/16-Civ-A5/07-Wrse-A5, Hydraulic Engineering

Transportation

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

Water Resources

07-Wrse-A1, Water Quality and Management
07-Wrse-A2/16-Civ-B4, Engineering Hydrology
07-Wrse-A3/18-Env-A3 , Soil Mechanics & Groundwater
07-Wrse-A4/16-Civ-A5/07-Str-B11, Hydraulic Engineering
07-Wrse-A5, Water Resources Planning & Systems
07-Wrse-A6 /16-Civ-A3, Municipal and Environmental Engineering (PEO only)
07-Wrse-B3/16-Civ-B5, Water Supply and Wastewater Treatment
07-Wrse-B11/18-Env-A1, Principles of Environmental Engineering
07-Wrse-B12/18-Env-B1, Environmental Assessment & Management Systems