

Exams for Fall/Winter 2026

Last updated March 30, 2026

Basic Studies

- 04-BS-1, Mathematics
- 04-BS-2, Probability and Statistics
- 04-BS-3, Statics and Dynamics
- 04-BS-4, Electric Circuits and Power
- 04-BS-5, 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, Thermodynamics
- 04-BS-11, Properties of Materials
- 04-BS-12, Organic Chemistry
- 04-BS-13, Biology
- 04-BS-14, Geology
- 04-BS-15, Engineering Graphics & Design Process
- 04-BS-16, Discrete Mathematics

Complementary Studies

- 11-CS-1, Engineering Economics
- 11-CS-2, Engineering in Society - Health and Safety
- 11-CS-3, Sustainability, Engineering and the Environment
- 11-CS-4, Engineering Management

Agricultural

- 04-Agric-A1, Applied Plant, Animal or Human Physiology
- 04-Agric-A2, Soil Physics and Mechanics
- 04-Agric-A3, Heat Engineering
- 04-Agric-A4, Fluid Flow
- 04-Agric-A5, Principles of Instrumentation
- 04-Agric-A7, Chemistry and Microbiology of Foods
- 04-Agric-B6/07-Wrse-A7-1, Irrigation, Drainage and Erosion Control
- 04-Agric-B7, Principles of Hydrology

Biomedical/Biochemical

- 04-Bio-A3, Cellular and Molecular Biology and Biochemistry
- 04-Bio-A5, Enzyme and Microbial Kinetics
- 04-Bio-B10, Analytical Biochemistry

Building

07-Bld-A1, Elementary Structural Analysis
07-Bld-A2, Elementary Structural Design
07-Bld-A3, Construction Engineering
07-Bld-A4, Building Engineering Systems
07-Bld-A5, Building Science
07-Bld-A6, Geotechnical Materials and Analysis
07-Bld-A7, Building Envelope Design
07-Bld-B5, Fire and Smoke Control in Buildings
07-Bld-B6, Guiding Energy Conservation Technologies
07-Bld-B7, Indoor Air Quality
07-Bld- B8, Control Systems in Buildings
07-Bld-B9, Building Services

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-B5, Pulp and Paper Technology
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, 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)

Computer

17-Comp-A3, Computer Architecture
17-Comp-B6, Computer Control and Robotics
17-Comp-B9, Artificial Intelligence and Expert Systems

Electrical

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

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-A6, Solid Waste Engineering and Management
18-Env-B1/07-Wrse-B12, Environmental Assessment & Management Systems
18-Env-B7, Environmental Sampling and Analysis
18-Env-B9, Environmental Chemistry and Microbiology

Geological

18-Geol-A1, Mineralogy and Petrology
18-Geol-A2, Hydrogeology
18-Geol-A3, Sedimentation and Stratigraphy
18-Geol-A4, Structural Geology
18-Geol-A5, Rock Mechanics
18-Geol-A6, Soil Mechanics
18-Geol-A7, Applied Geophysics
18-Geol-B1, Contaminant Hydrogeology
18-Geol-B6-1, Petroleum Deposits
18-Geol-B10-1, Gravity & Magnetic Fields

Geomatics

18-Geom-A1, Surveying
18-Geom-A3, Geodesy and Positioning
18-Geom-A5, Remote Sensing and Image Analysis
18-Geom-A6, Cadastral Studies
18-Geom-B1, Digital Terrain Modelling
18-Geom-B2, Satellite Navigation
18-Geom-B5, Survey Law
18-Geom-B6, Land Use, Planning and Environmental Management

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-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-B6/12-Mtl-B6, Physical Metallurgy of Iron and Steel

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-A7, Instrumentation, Measurements, Sensors and Actuators
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)

Mining & Mineral

18-MMP-A1, General Geology and Exploration
18-MMP-A2, Underground Mining Methods and Design
18-MMP-A5, Surface Mining Methods and Design
18-MMP-A6, Mining and the Environment
18-MMP-B1, Applied Rock Mechanics
18-MMP-B2, Rock Fragmentation
18-MMP-B4, Occupational Health Safety and Loss Management
18-MMP-B7, Extractive Metallurgy
18-MMP-B9, Rock Slope Engineering

Materials

12-Mtl-A2, Transport Phenomena in Materials Engineering
12-Mtl-A3, Structure & Characterization of Materials
12-Mtl-A5, Phase Transformations of Metals, Glasses & Ceramics
12-Mtl-A6, Thermal Treatment of Metals, Glasses, Ceramics
12-Mtl-B6/10-Met-B6, Physical Metallurgy of Iron and Steel
12-Mtl-B15, Joining of Materials

Naval

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

Nuclear

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-A4, Oil and Gas Well Drilling and Completion

17-Pet-A7, Secondary and Enhanced Recovery

17-Pet-B2, Natural Gas Engineering

Engineering Physics

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

17-Phys-A5-B, Analog and Digital Electronic Circuits

17-Phys-A7, Optics

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

Software

19-Soft-A1, Algorithms & Data Structures

19-Soft-A6, Software Quality Assurance

19-Soft-B6, Software Project Management

19-Soft-B8, Distributed Systems

19-Soft-B14, Safety Critical Systems

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-B11/16-Civ-A5, Hydraulic Engineering

Transportation

07-Tra-A1, Introduction to Transportation Engineering
07-Tra-A2, Highway Design
07-Tra-A3, Traffic Engineering
07-Tra-A5, Transportation Planning and Demand Analysis
07-Tra-A6/07-Str-A3/16-Civ-A4, Geotechnical Materials and Analysis
07-Tra-B6, Highway Construction
07-Tra-B9, Traffic Safety

Water Resources

07-Wrse-A2/16-Civ-B4, Engineering Hydrology
07-Wrse-A6 /16-Civ-A3, Municipal and Environmental Engineering (PEO only)
07-Wrse-A7-1/04-Agric-B6, Irrigation, Drainage and Erosion Control
07-Wrse-B3/16-Civ-B5, Water Supply and Wastewater Treatment
07-Wrse-B11/18-Env-A1, Principles of Environmental Engineering