

Mechanical Engineering:

- Structural Integrity
- Fracture and Fatigue
- Analytic methods for Engineering Design
- Hydropower plants and equipment
- Thermal Power Plants
- Green Energy
- Renewable energy

Engineering Materials:

- Nanomaterials
- Design of Welded Structures
- Materials for strategic application (space, defense, nuclear),
- Composite materials
- Iron and steel extraction and processing
- Biomaterials

Chemical and Process Engineering:

- Chemical Engineering
- Biofuels in Combustion Processes
- Chemical and Biochemical operations and Reactors
- Design, construction and operation of processing systems
- Water treatment
- Organic chemistry and polymers
- Equipment and maintenance
- Sustainable development

Experimental Techniques:

- Experimental Fluid Mechanics and thermodynamics
- Result processing
- Digital Image Correlation method

Numerical Methods:

- Optimization Techniques Applied to Engineering problems
- Data science
- Fluid dynamics, heat transfer and porous media flow
- Computational chemistry
- Computational biology and medicine

New Technologies:

- New technologies in production engineering
- Intelligent manufacturing systems
- Robotics

- Naval systems
- Production engineering
- New generation of machine tools

Clear sky:

- Sustainable cities
- Aerodynamics for clearer skies
- Novel materials & structures
- Eco design & manufacturing
- Transport & propulsion

Ship & Maritime Research:

- Innovative Material Design for Marine Engine and Components
- Sustainability in construction
- Sustainability in operation
- Stability and safety

Dental Materials and Structures:

- Restorative Materials
- Digital Dentistry
- Dental 3D printing
- FEM in Dentistry

Sustainable Design and New Technologies:

- Cad/Cam/CAE Technology and Design Tools
- Virtual Reality in Education – Class VR
- Sustainable Design and Circular Economy
- Design Management, Innovation and Quality
- Computational Design and Digital Fabrication
- Reusing and Upcycling Materials

Advanced Materials and Technology:

- Basic Ceramics and Sintering
- Modeling and Simulation
- Glass, Amorphous and Electro Ceramics
- Electrochemistry and Catalysis
- Magnetic and Refractory Materials
- Heritage, Art and Design

Artificial intelligence:

- General artificial intelligence
- Explainable artificial intelligence
- Environmental modeling
- Air pollution and biomatrix modeling

