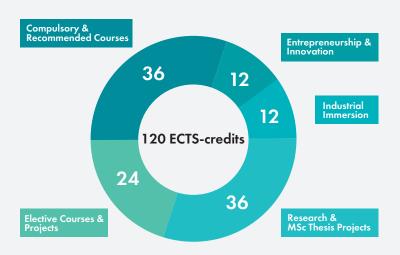
Master of Science Program

Skoltech Skolkovo Institute of Science and Technology

Advanced Manufacturing Technologies







Curriculum:

Compulsory courses

Introduction to Advanced Manufacturing Technologies

Continuum Mechanics

Mechanics and Physics of Advanced Manufacturing

Introduction to Product Lifecycle Management (PLM)

Recommended Electives

Mathematics for Engineers

Geometric Modeling

Advanced Manufacturing of Composite Materials

Materials Chemistry

Structural Analysis and Design

Numerical Methods in Engineering and Science

Materials Selection in Design

Additive Manufacturing

Thermal Fluid Sciences

Composite Materials and Structures

Numerical Methods in Continuum Mechanics

Industrial Robotics

Advanced PLM techniques: Digital Design and Optimization

Micromechanics

Advanced PLM techniques: Product Prototyping

Advanced PLM techniques: Testing and Model Validation

Heterogeneous Volume Modeling and Digital Fabrication

Fracture Mechanics

Entrepreneurship & Innovation

Innovation Workshop

Ideas to Impact

Leadership for Innovators

Business Communication

Thinking Disruptive for a Big Future

Biomedical Innovation and Entrepreneurship

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Intellectual Property and Technological Innovation

New Product Design: from Idea to Market Launch

Management of Research & Development

Technology Entrepreneurship

Elective Courses

See at the Skoltech Course Catalogue:

 skoltech.ru/en/education/course-catalogue