



Innovating Innovation

Building a 21st Century S&T University on International Collaboration

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Skoltech Mission

Accelerating Innovation

- To have fundamental educational, scholarly and economic impact in the Russian Federation and around the world,
- By **accelerating innovation**:
 - building **integrated research, education & innovation** programs to effectively meet the needs of industry and society, and
 - educating graduate **students to be leaders in translating knowledge from science to innovation**,
 - Using a **fusion of exceptional Russian and international talent, key partnerships, and a world-class infrastructure**, all embedded in the Skolkovo innovation ecosystem.

Skoltech is a new model of academic institution

Skoltech at a Glance

- A unique Russian international graduate university in international context
- Established Nov 2011 in Partnership with MIT

MIT Skoltech Initiative

- 200 faculty, 400 post-docs, 1200 graduate students
- Focused on science, engineering and technology
 - Up to 15 interdisciplinary Centers for Research, Education and Innovation organized around complex problems
 - CREI Partnership with leading EU and US universities
- Strong programs in innovation and entrepreneurship



How Integrate the Innovation Dimension in the EU-US S&T Agreement?

→ Create an innovation culture



→ Define the value(s) that can be derived from intercontinental collaboration in Research, Technology and Innovation



→ Capture/Realize the value



→ Overcome obstacles



How Integrate the Innovation Dimension in the EU-US S&T Agreement?

→ Innovation culture

- Scope: Ideas to impact
- Programs in education
- Faculty Development and Participation



→ Define the value(s)

- Research Strategy workshops
- Identify "surprise" problems
- Potential in People and Facilities



→ Capture/Realize the value

- Establish projects aligned with strategy
- Fund joint collaborative projects through competitions
- Develop "global leaders"
- Move people



→ Overcome obstacles

- IP: Share templates and practices
- Currency: Receiver takes risk



Innovation Workshop

4 Week Immersion Course

Goals: Learn the skills required for innovation, develop the self-confidence needed to actively participate in the innovation process, become effective advocates for ideas and projects through written and oral communication, and understand how to lead as well as how to be an effective team member.

Program Structure/Content

- Start and Glue lectures.
- Leadership and Teamwork Classes.
- Quick Success Projects:
- Business-related modules.
- Capstone Projects.

All students have to begin their program with this workshop



Design of Masters Program

Science, Technology and Engineering

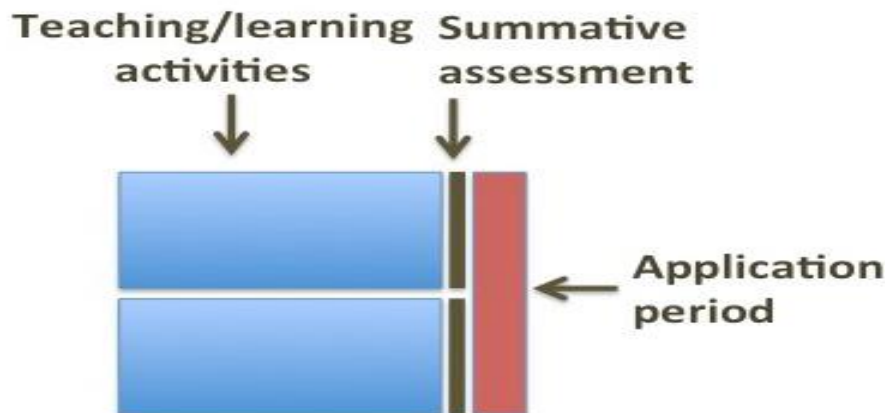
Sector

Entrepreneurship and Innovation

Diploma Thesis

| **Fall** Year 1 | **Spring** Year 1 | **Fall** Year 2 | **Spring** Year 2 |

Structure of each quarter



App period starts with an Introduction and ends with Report & celebrate: 7 days to complete the project.

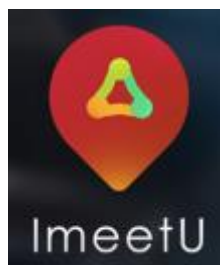
The final presentation is delivered to an audience (K-12, Future students, Big Industry, SME +VC)

Skoltech students met Dmitry Medvedev Toy Product Design Course, 2014.

Skoltech & MIT in
collaboration with
MISiS

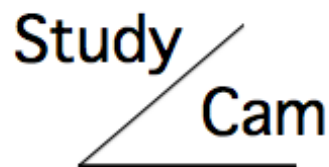


Toy Product Design is an introduction to the product design process with a focus on designing for play and entertainment. It is a project-centric class. Students work in small teams of 6-7 members to design and prototype new toys



More than 45% of Skoltech students are actively involved in a startup.

riderguider



Developing a High Impact Research Strategy with Consideration of Innovation



Thank you for your attention!

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