Skoltech

Skolkovo Institute of Science and Technology

JOINT MASTER OF SCIENCE PROGRAM

In the last decade the Internet of Things (IoT) paradigm has slowly but steadily and increasingly permeated what researchers and engineers study and build.

IoT track within Skoltech Master of Science Program Information Science and Technology is available in a network form.

The term "Internet of Things" doesn't have a single definition and people today often use it to interchangeably refer to Wireless Sensor Network (WSN), Machine-to-Machine (M2M), Web of Things (WoT) and other concepts. The focus of IoT Track is to learn about these technologies that will be extending the Internet as we know it and use it today, to interconnect not only people and computers but also sensors and associated objects.

Namely the Track will cover IoT "pillar" technologies including wireless communications, sensing, data and signal processing, and give the opportunity for hands-on sessions where the students will become familiar with the hardware and software supporting the IoT. Apart from covering the theory behind the IoT and "how to connect things to the Internet", the courses will therefore also engage the students to demonstrate the feasibility of simple IoT real applications and will challenge them to improve their applications through the use of cognitive technologies and cloud computing.

a successful graduate will be able to:

- Use existing IoT technologies to produce applications which leverage on sensed data.
- Devise solutions for industrial cases (transport, healthcare, agriculture etc.) using IoT.
- Apply the theory behind the IoT to construct IoT real applications and improve them through the use of smart technologies.

main advantages

- Up-to-date courses in IoT including Sensors and Embedded Systems, Machine Learning, Wireless Communication
- Learning by doing: IoT hands-on sessions and team projects
- No tuition fee, 40 000 monthly fellowship is granted
- Teaching in English
- State-of-the-art Campus opened in September 2018
- Internships in Top-200 Universities worldwide
- Joint program = two diplomas
- Industrial immersion in leading Russian companies

entry criteria

- Online application (form + motivation letter + two recommendation letters + resume). All documents should be prepared and submitted in English
- Online-test
- English (450 TOEFL ITP/80 iBT /6 IELTS) — provide a certificate or pass the exam for free at your local university
- Selection Day (at your local university): Math exam and Interview (15 minutes presentation in English).

main research areas

- Wireless communication
- Data processing
- Information Protection in Computer Systems and Networks
- Environmental/industrial/biomedical sensing and actuation
- Smart wearables
- eSports

Internet of Things

Track of Skoltech MSc program "Information Science and Technology"

Program organization

Academic year 1

September: **Innovation Workshop at Skoltech**

October-June:
Classes at Partner University

July:
Industrial Immersion in Moscow

August: **Vacation**

Academic year 2

September-May:
Classes at Skoltech

June: **Thesis defence**

Graduation

Contact

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