

SUMMER CAMP 2021

in Nanostructures for Biomedical and Sensor Applications

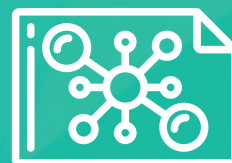
WHEN?

August 9 – 20, 2021



WHERE?

ITMO University,
Birzhevaya Line 14, lit. A, St. Petersburg



ECTS?

Yes! 4 ECTS + Official ITMO Certificate

FEES?

32,000 RUB (~€350)



APPLICATION DEADLINE?

- **June 30, 2021** – for citizens of visa-free countries, EU countries, India, Iran, China, Japan, Switzerland, and Norway.
- **June 10, 2021** – for citizens of all other countries.

APPLICATION DOCUMENTS?

- Valid copy of your passport
- CV
- Motivation letter
- Passport photo (jpg and png)

Please forward to Ms. Ekaterina Rassolenko
at e.rassolenko@itmo.ru

REQUIREMENTS?

- Undergraduate (3rd year and above), graduate, PhD students, and working professionals in respective fields.
- English – B2 or above



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SCHEDULE

August 9-20, 2021

AUGUST 9, MONDAY	Laboratory tour Welcome party	11:00 – 13:00 15:00 – 17:00	
AUGUST 10, TUESDAY	Physical and Chemical Methods of Nanofabrication	11:00 – 13:00 15:00 – 17:00	Lecture Practice
AUGUST 11, WEDNESDAY	Physical Properties of 0D, 1D, and 2D Quantum Semiconductor Nanocrystals	11:00 – 13:00 15:00 – 17:00	Lecture Practice
AUGUST 12, THURSDAY	Hybrid Structures Based on Semiconductor, Plasmonic, Magnetic Nanoparticles Fundamentals of Energy and Charge Transfer in Hybrid Nanostructures Hybrid Structures Based on Semiconductor, Plasmonic, Magnetic nanoparticles; Patterns of Energy and Charge Transfer in Hybrid Nanostructures	10:00 – 11:30 11:30 – 13:00 14:00 – 17:00	Lecture Lecture Practice
AUGUST 13, FRIDAY	FLIM Method As a Tool to Study Hybrid Nanostructures	11:00 – 13:00 15:00 – 17:00	Lecture Practice
AUGUST 16, MONDAY	FCS and FRAP Methods for Characterization of Hybrid Nanostructures	11:00 – 13:00 15:00 – 17:00	Lecture Practice
AUGUST 17, TUESDAY	Nanostructures in Biomedical Applications: Benefits and Limitations	11:00 – 13:00 15:00 – 17:00	Lecture Practice
AUGUST 18, WEDNESDAY	Sensor Systems Based on Carbon, Semiconductor and Metal Nanoparticles	11:00 – 13:00 15:00 – 17:00	Lecture Practice
AUGUST 19, THURSDAY	Application of Localized and Propagating Plasmons in Chemical and Biological Sensors	11:00 – 13:00 15:00 – 17:00	Lecture Practice
AUGUST 20, FRIDAY	Final assessment	11:00 – 13:00 15:00 – 17:00	