

ONLINE

SUMMER CAMP

in Cyber Security **2021**

WHEN?

July 5 - 16, 2021

ECTS?

Yes! 3 ECTS + ITMO Official Certificate

FEES?

22,000 RUB (~ 245€)

APPLICATION DEADLINE?

June 24, 2021

APPLICATION DOCUMENTS?

- Copy of your current passport
- CV
- send to Ms. Ekaterina Rassolenko at e.rassolenko@itmo.ru

REQUIREMENTS?

- English B1 and higher

REQUIRED PROGRAMS?

- x32-64dbg, IDA Pro Free edition, PE Tools, Zoom



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in Cyber Security 2021

SCHEDULE

July 5-16, 2021

JULY 5 MONDAY	History of Malware & Antimalware Debugger and Disassembler. PE-header and Win32 Executable Files	11:00 – 13:00	Lecture
		13:00 – 15:00	Practice
JULY 6 TUESDAY	Malware Classification and Naming Analysis of Simple File Virus. Algorithms of EXE Infection	11:00 – 13:00	Lecture
		13:00 – 15:00	Practice
JULY 7 WEDNESDAY	Techniques of Protection Against Detection. Malware Behavior Analysis of Simple File Virus. Reaching the Payload	11:00 – 13:00	Lecture
		13:00 – 15:00	Practice
JULY 8 THURSDAY	Review of Malware Detection Algorithms Techniques of Manual Unpacking of Binaries, Dumping and Healing the PE Files	11:00 – 13:00	Lecture
		13:00 – 15:00	Practice
JULY 9 FRIDAY	Malware Detection Algorithms. Machine Learning. Unpacking the Simple Trojans I	11:00 – 13:00	Lecture
		13:00 – 15:00	Practice
JULY 12 MONDAY	Structure of Botnets. P2P Botnets Unpacking the Simple Trojans II	11:00 – 13:00	Lecture
		13:00 – 15:00	Practice
JULY 13 TUESDAY	Zeus Botnet and Its Protocol Reaching the Payload of Trojans	11:00 – 13:00	Lecture
		13:00 – 15:00	Practice
JULY 14 WEDNESDAY	Antivirus Quality Estimation. Comparing Antivirus Products Structure of Payload of Trojans	11:00 – 13:00	Lecture
		13:00 – 15:00	Practice
JULY 15 THURSDAY	Sandbox Analysis of Malware Working with Viruses in Sandbox: Restrictions and Limitations	11:00 – 13:00	Lecture
		13:00 – 15:00	Practice
JULY 16 FRIDAY	Review and discussion	11:00 – 15:00	Lecture & Practice

All classes are scheduled according to Moscow time (GMT +3).