

ONLINE

SUMMER CAMP

in Cyber Security **2021**

WHEN?

July 5 - 16, 2021

ECTS?

Yes! 3 ECTS + Official ITMO Certificate

FEES?

22,000 RUB (~€245)

APPLICATION DEADLINE?

June 24, 2021

APPLICATION DOCUMENTS?

- Valid copy of your passport
- CV
- Send to Ms. Ekaterina Rassolenko at e.rassolenko@itmo.ru

REQUIREMENTS?

- Knowledge of assembly x86 and C language
- Experience of using C++ programming language
- English – B1 or above

REQUIRED PROGRAMS?

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





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SCHEDULE

July 5-16, 2021

JULY 5 MONDAY	History of Malware & Antimalware Debugger and Disassembler. PE-header and Win32 Executable Files	17:00 – 19:00 Lecture 19:00 – 21:00 Practice
JULY 6 TUESDAY	Malware Classification and Naming Analysis of Simple File Virus. Algorithms of EXE Infection	17:00 – 19:00 Lecture 19:00 – 21:00 Practice
JULY 7 WEDNESDAY	Techniques of Protection Against Detection. Malware Behavior Analysis of Simple File Virus. Reaching the Payload	17:00 – 19:00 Lecture 19:00 – 21:00 Practice
JULY 8 THURSDAY	Review of Malware Detection Algorithms Techniques of Manual Unpacking of Binaries, Dumping and Healing the PE Files	17:00 – 19:00 Lecture 19:00 – 21:00 Practice
JULY 9 FRIDAY	Malware Detection Algorithms. Machine Learning. Unpacking the Simple Trojans I	17:00 – 19:00 Lecture 19:00 – 21:00 Practice
JULY 12 MONDAY	Structure of Botnets. P2P Botnets Unpacking the Simple Trojans II	17:00 – 19:00 Lecture 19:00 – 21:00 Practice
JULY 13 TUESDAY	Zeus Botnet and Its Protocol Reaching the Payload of Trojans	17:00 – 19:00 Lecture 19:00 – 21:00 Practice
JULY 14 WEDNESDAY	Antivirus Quality Estimation. Comparing Antivirus Products Structure of Payload of Trojans	17:00 – 19:00 Lecture 19:00 – 21:00 Practice
JULY 15 THURSDAY	Sandbox Analysis of Malware Working with Viruses in Sandbox: Restrictions and Limitations	17:00 – 19:00 Lecture 19:00 – 21:00 Practice
JULY 16 FRIDAY	Review and discussion	17:00 – 21:00 Lecture & Practice

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