



**ALAR**  
Training Center



SUMMER SCHOOL

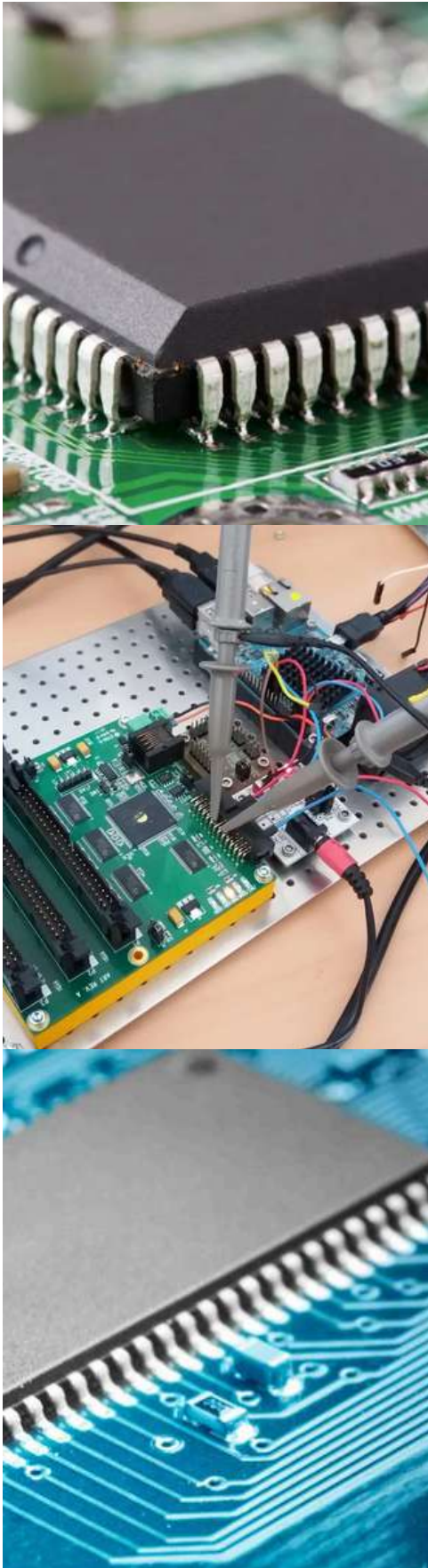
# DIGITAL DESIGN BASED ON FPGA

5-19 August, 2022

**LEARN MORE ABOUT FPGA  
JOIN THIS ONLINE SUMMER SCHOOL!**

ECTS credits: 4.0





## BRIEF DESCRIPTION

The course is focused on FPGA -based digital design topics. After the course, students are expected to be able to use VHDL and Xilinx Vivado software for digital design. The course provides basic competencies in VHDL - based digital design with practical experience in simulation and hardware debugging. The course could be a good starting point for the students, going to work in IC design and computer engineering. The course implies that students are familiar with basics of electronics and informatics. At least some knowledge of MOS transistors and binary mathematics is expected. Our friendly team, lectures, mentors and coaches will lead the participants throughout the process, thus they can take a maximum of it.

### Cost:

US\$900 - includes registration, teaching costs, 4.0 ECTS credits Certificate, additional Russian Language on-line course by ALAR Training Center (33h) + Certificate

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### **Courses:**

- Introduction to digital design
- Basics of VHIC Hardware Description Language
- Synthesis of combinational and sequential devices
- Digital design with FPGAs
- IP-cores: Creating and using

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**Program dates:** 5-19 August, 2022

**Registration deadline:** 12 April, 2022

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### **FORMAT: ON-CAMPUS**

- Studies
- Excursions
- Support 24/7
- Certificate
- Additional program (visit to Moscow and Saint Petersburg)

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