

Level of education: **Master degree studies, second-cycle**
Field of study: **Computer Science (Master of Computer Science)**
Specialization: **Cloud Computing**

A **Computer Science** Master degree graduate with the specialization in **Cloud Computing** has knowledge and skills within the following scope:

- modeling and designing IT systems and computer networks,
- IT systems architecture, computer systems and ICT systems with the use of cloud computing environments on the basis of key cloud solutions such as:
 - o AMAZON WEB SERVICES (AWS),
 - o MICROSOFT AZURE (AZURE),
 - o GOOGLE CLOUD,
 - o ALIBABA CLOUD,
- advanced data processing systems of cloud computing,
- advanced implementation of cloud services in business and economic organization.

Moreover, a computer science Master degree graduate specialized in cloud computing has basic knowledge of English language enabling them to use documentation, software and IT technologies including the foundations entrepreneurship, legal and ethical aspects of their occupation.

For CLOUD COMPUTING specialization a wider scope of professional competencies was established:

- modeling and designing IT systems based on cloud solutions,
- modeling and designing advanced computer networks in private and public systems - cloud and hybrid,
- designing the processes of processing big sets of data using advanced cloud:
 - o Data Warehouse,
 - o Data Mining,
 - o Machine Learning,
 - o Internet of Things.
- designing the processes of data visualization using advanced cloud technologies Microsoft Azure and AWS,
- using cloud services to build advanced solutions within systems of such class as Business Intelligence on the basis of Microsoft Office 365, SharePoint On-line services,
- managing projects based on efficient repository of project solutions such as Microsoft Project On-line and SharePoint On-line.

Graduates of Cloud Computing specialization have the education and competencies enabling them to work in the IT sector within multifaceted and comprehensive skills in designing and implementation of advanced IT systems and computer networks including ensuring high security of processed information in the created solutions.