

WARSAW SCHOOL OF COMPUTER SCIENCE

# MASTER STUDIES- STUDY PLAN- COMPUTER SCIENCE (practical profile)

study path for first-cycle studies in Computer Science graduates

## COURSES

### SEMESTER 1

#### Common core:

- Information System Modeling and Analysis (lectures + laboratories) - 7 ECTS
- Advanced Software Engineering (lectures + laboratories) - 6 ECTS
- Advanced Object-Oriented Design (lectures + laboratories) - 6 ECTS
- Cybersecurity of Information Systems (lectures + laboratories) - 6 ECTS
- Monographic course I: Tele-information systems (lectures + practical classes) - 3 ECTS
- Monographic course II: Cloud computing - technologies and deployment (lectures + practical classes) - 3 ECTS

#### Specialized subjects (Cloud Computing specialization):

- Advanced data processing in the cloud (lectures) - 7 ECTS

#### Specialized subjects (IT Project Management specialization):

- IT Service and Quality Management methodologies (ITIL,ISO20000/22301,FitSM, YASM, Knowledge management –KCS (lectures) - 7 ECTS

### SEMESTER 2

#### Common core:

- Information System Modeling and Analysis (lectures + laboratories) - 7 ECTS
- Advanced Database Systems (lectures + laboratories) - 5 ECTS
- Data Mining (lectures + laboratories) - 4 ECTS
- Monographic course III: Data strategies in an organization - (lectures + practical classes) - 5 ECTS
- Foundations of Management (lectures) - 6 ECTS

#### Specialized subjects (Cloud Computing specialization):

- Advanced data processing in the cloud (lectures + laboratories) - 7 ECTS
- AWS Cloud Computing (lectures + laboratories) - 5 ECTS

**Specialized subjects (IT Project Management specialization):**

- IT Service and Quality Management methodologies (ITIL, ISO20000/22301, FitSM, YASM, Knowledge management –KCS (lectures + practical classes) - 7 ECTS
- Major projects management methodologies (Prince2, Prince2 Agile, PMI, Togaf) (lectures + laboratories) - 10 ECTS

**SEMESTER 3****Common core:**

- Mobile Systems (lectures + laboratories) - 5 ECTS
- Monographic course III: Artificial Intelligence (lectures + practical classes) - 5 ECTS
- Foundations of Management (lectures) - 6 ECTS
- Professional internship (3 months) - 15 ECTS

**Specialized subjects (Cloud Computing specialization):**

- Cloud Computing examples of deployments (lectures + laboratories) - 5 ECTS
- Cloud Computing in the context of Microsoft Azure (lectures + laboratories) - 6 ECTS
- Master thesis seminar (practical classes) - 16 ECTS

**Specialized subjects (IT Project Management specialization):**

- Major projects management methodologies (Prince2, Prince2 Agile, PMI, Togaf) (lectures + laboratories) - 10 ECTS
- Agile project management methodologies (Agile Scrum, DevOps, Product Owner) (lectures + laboratories + practical classes) - 6 ECTS
- Master thesis seminar (practical classes) - 16 ECTS

**SEMESTER 4****Common core:**

- Professional internship (3 months) - 15 ECTS

**Specialized subjects (Cloud Computing specialization):**

- Information solutions in Cloud Computing (lectures + laboratories) - 6 ECTS
- Master thesis seminar (practical classes) - 16 ECTS

**Specialized subjects (IT Project Management specialization):**

- Supplier Management methodologies (SIAM, Supplier Management) (lectures + practical classes) - 6 ECTS
- Master thesis seminar (practical classes) - 16 ECTS