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# **Tutorial**

Course description

#### **Basic** information

Field of study: Analytical Computer Science

Path:-

Organizational unit: Faculty of Mathematics and Computer Science

Education level: first-cycle studies

Form of study: full-time studies

Study profile: general academic

Obligatory status: mandatory

Education cycle: 2022/23

Course code: UJ.WMIIANS.1200.02446.22

Languages of instruction: Polish

Course related to scientific research: Yes

Disciplines: Computer Science

ISCED classification: 0588 Natural sciences, mathematics and statistics, inter-disciplinary programmes, 0612 Database and network design and administration, 0613 Software and applications development and analysis, 0619 Information and Communication Technologies not elsewhere classified, 0688 Information and Communication Technologies (ICTs), inter-disciplinary programmes

USOS code: WMI.TCS.TUT.T

Course coordinator

Iwona Cieślik

Course instructor

Iwona Cieślik

Form of verification of learning outcomes

graded credit

Period Semester 6
Teaching methods and hours

tutorial: 5

Number of ECTS credits 5.0

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C1 Developing skills in preparing written papers on a selected computer science topic.

# Learning outcomes for the course

| Code   | Effects in terms of   | Directional<br>learning<br>outcomes      | Verification<br>methods |
|--|---|--|-------------------------|
| Skills – The student can:                      |   |  |                         |
| U1   | obtain information from documentation, professional literature (in Polish and English), integrate them, make own conclusions, analyses and interpretations  | IAN_K1_U24                               | graded<br>credit        |
| U2   | present computer science issues in an understandable language and prepare written studies on selected topics  | IAN_K1_U02,<br>IAN_K1_U21,<br>IAN_K1_U22 | graded<br>credit        |
| U3   | demonstrate readiness to constantly adapt their knowledge and practical skills to changes occurring in computer science; understands the need to improve their qualifications   | IAN_K1_U26                               | graded<br>credit        |
| Social competences  – The student is ready to: |   |  |                         |
| K1   | formulate bold questions that help better understand the assigned topic and stimulate the search for information in professional literature, the internet and scientific articles; approach critically the information found and their own conclusions; can justify the results of their analyses | IAN_K1_K01,<br>IAN_K1_K04,<br>IAN_K1_K05 | graded<br>credit        |
| K2   | plan systematic work on a given topic; can define priorities for preparing the assigned written work  | IAN_K1_K02,<br>IAN_K1_K03                | graded<br>credit        |

## ECTS credits balance

| Form of student activity                    | Average number of hours* devoted to completed types of activities |
|---|---|
| tutorial                                    | 5   |
| gathering information for the assigned work | 20  |
| problem analysis                            | 50  |

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| preparation of semester paper | 60                  |                     |
|-------------------------------|---------------------|---------------------|
| Total student workload        | Number of hours 135 | ECTS<br>credits 5.0 |

<sup>\*</sup> hour (lesson) means 45 minutes

### Course content

| No. | Course content  | Learning outcomes for the course |
|-----|---|----------------------------------|
| 1.  | 1. Independent acquisition of knowledge from professional literature and scientific articles. 2. Preparation of written work. | U1, U2, U3, K1, K2               |

### **Extended information**

Teaching methods:

consultations, independent work

| Type of classes | Forms of credit | Course credit requirements   |
|-----------------|-----------------|------------------------------|
| tutorial        | graded credit   | Preparation of written work. |

## Prerequisites and additional requirements

Preparation of written work on a selected computer science topic.

### Literature

#### Required

1. The student selects literature individually depending on the chosen topic of the prepared work.