



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Introduction to computer science

### Course

Field of study

Construction and exploitation of means of transport

Area of study (specialization)

Level of study

First-cycle studies

Form of study

full-time

Year/Semester

1 / 2

Profile of study

general academic

Course offered in

Polish

Requirements

compulsory

### Number of hours

Lecture

15

Laboratory classes

Other (e.g. online)

Tutorials

Projects/seminars

### Number of credit points

### Lecturers

Responsible for the course/lecturer:

dr inż. Jędrzej Mosiężny

Responsible for the course/lecturer:

Instytut Energetyki Ciepłej

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### Prerequisites

Student knows the definition of computational machine

### Course objective

The course objective is to deliver the information about basic computational tools used during the studies

### Course-related learning outcomes

Knowledge

Student knows the computer tools used during th studies. Student knows how to legally obtain the tools for free. Student knows free and legal alternatives to paid and proprietary tools

Skills

Student knows how to use the tools to solve rudimentary engineering problems. Sudent knows how to use user manuals for given software in order to solve basic problems



Social competences

Student knows how to selfsufficiently obtain knowledge on how to use given software

**Methods for verifying learning outcomes and assessment criteria**

Learning outcomes presented above are verified as follows:

Assesment test

**Programme content**

Operating systems, Windows Command Line, Linux Command Line, CAD tools, CAE tools, CFD tools. Free alternatives for Office, Free IDE's for solving mathematical and engineering problems.

**Teaching methods**

Lecture with multimedia presentation

**Bibliography**

Basic

None

Additional

User manuals of software described on lecture

**Breakdown of average student's workload**

	Hours	ECTS
Total workload	30	1,0
Classes requiring direct contact with the teacher	15	0,5
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) <sup>1</sup>	15	0,5

<sup>1</sup> delete or add other activities as appropriate