Course’ coordinators:
prof. dr hab. inż. Mieczysław Muraszkiewicz, dr hab. Władysław Homenda, prof. UwB

Title: “Introduction to Computer Science & Engineering”

Number of didactic hours: 8 hours of lectures

Course fundamentals and requirements: The purpose of the lecture is to provide students with basic information and certain intuitions regarding computer science and engineering in order to facilitate further IT study. The students are assumed to have general knowledge and acquaintance of IT, in particular PCs, tablets, smartphones, and the internet.

Didactic methods: lecture

Form of course credits: oral exam

Main topics:
1. History of computing and information technology (IT).
2. Basic notions (algorithm, data, information, knowledge, programme, programming and software engineering, programming language, operating systems, networks, security).
3. How to think algorithmically?
4. Basics of computer architecture.
5. Internet and Internet of Things; web services; social services.
6. Areas of IT applications.

Learning outcomes and evaluation methods:
The student will get acquainted with basic notions of computer science and IT and some areas of their applications. This will set up a background against which the student will be able to build up specific IT knowledge thru further courses offered by the Faculty and self-learning. The class will be coached in a conversational manner what will allow the students to ask “online” questions and express reservations, if any. This will also allow the teacher to evaluate the students’ propensity and engagement. The final evaluation, however, will be done thru an oral exam.

Bibliography:
• Mieścicki J.: Wstęp do informatyki nie tylko dla informatyków, Wydawnictwo BTC, Legionowo 2013