Module Specification

Introduction to Specialty and Digital Skills [TSI]

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Part 1: Information

Module title: Introduction to Specialty and Digital Skills [TSI]

Module code: UFCE3T-12-0

Level: Level 3

For implementation from: 2023-24

UWE credit rating: 12

ECTS credit rating: 6

College: College of Arts, Technology and Environment

School: CATE School of Computing and Creative Technologies

Partner institutions: None

Field: Computer Science and Creative Technologies

Module type: Module

Pre-requisites: None

Excluded combinations: None

Co-requisites: None

Continuing professional development: No

Professional, statutory or regulatory body requirements: None

Part 2: Description

Overview: Not applicable

Features: Not applicable

Educational aims: To introduce students to the main directions of computer science, providing an environment for students to learn the basic technologies explored throughout the study program. Students will learn the basic requirements of the university study process and the information environment (digital competencies).

Outline syllabus: The module will cover the following topics:

•Structure of the TSI. The main requirements of the educational process at the institute.
• Guidelines for the organization of training activities at the university.
•Review of discipline. The history of computer science.
•Computer architecture. Data storage. Processing data.
•Operating systems. Network.
•Algorithms. The structures and database.
•Programming languages.
•Software Engineering.
•Software and data protection.
•The theory of computation.
•Artificial Intelligence.
•Prospects for the development of computer science.
• Information Environment TSI.
•Work with the products MS Office.

Part 3: Teaching and learning methods

Teaching and learning methods: Learning and teaching will be provided to students in two forms: lectures and practical classes. During lectures, theoretical aspects of the course will be provided to students by the teaching staff. Lectures will be supported by presentation published and available to the students on e.tsi.lv under the module section. Also, additional materials, like publications on the internet, videos etc will be presented in e.tsi.lv.

Module Learning outcomes: On successful completion of this module students will achieve the following learning outcomes.

MO1 Describe the basic direction of the Computer Science development and their trends

MO2 Describe possible areas of professional activities after graduation in a Computer Science Field

MO3 Conduct independent learning using the information environment of the Institute.

MO4 Explain the relationships between computer systems, applications, programming, and programming languages

Hours to be allocated: 120

Contact hours:

Independent study/self-guided study = 96 hours

Face-to-face learning = 64 hours

Total = 160

Reading list: The reading list for this module can be accessed at readinglists.uwe.ac.uk via the following link https://rl.talis.com/3/uwe/lists/D20D5178-3FC2-8B0D-0913-8446643240C2.html?lang=en&login=1

Part 4: Assessment

Assessment strategy: To assess the learning outcomes of this course, several types of activities are provided, which include:

Part 1. Practical / laboratory work.
Part 2. Examination.

Practical / laboratory work is carried out by students independently / in a group. The main task is the acquisition of practical skills and the application of theoretical knowledge gained during the classes. Based on the results of the implementation, a report is prepared, which is
evaluated by the teacher using the rubrics of assessment / grading scale. In addition to the assessment, the student receives feedback on the work done. Rating and review are published in e.tsi.lv and are available to students.

Automated tests are used as a formative type of knowledge assessment and are

designed for continuous self-assessment of the knowledge acquired by the student. This will allow students to pay attention to material that they have not mastered enough.

The course ends with an exam, which is aimed at assessing the theoretical knowledge and practical skills acquired by the student in the process of studying the course.

The resit will follow the format of the first sit. In terms of the lab work write up, students are required to rework the failed elements .

Assessment tasks:

Examination (First Sit)
Description: Exam (2 hours)
Weighting: 50 %
Final assessment: Yes
Group work: No
Learning outcomes tested: MO1, MO2, MO4

Practical Skills Assessment (First Sit)
Description: Set of Individual practical assignments are conducted with the utilisation of IT technology, which aims at developing practical skills and competencies
Weighting: 50 %
Final assessment: No
Group work: No
Learning outcomes tested: MO3

Examination (Resit)
Description: Examination (2 hours)
Weighting: 50 %
Final assessment: No
Group work: No
Learning outcomes tested: MO1, MO2, MO4

Practical Skills Assessment (Resit)
Description: Set of Individual practical assignments are conducted with the utilisation of IT technology, which aims at developing practical skills and competencies.
Weighting: 50 %
Final assessment: No
Group work: No
Learning outcomes tested: MO3

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Computer Science and Software Development {Double Degree} {Foundation} [TSI] BSc (Hons) 2023-24

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