Programming business applications - course description

General information

Course name	Programming business applications
Course ID	11.3-WE-INFP-ProgApBizn-Er
Faculty	Faculty of Computer Science, Electrical Engineering and Automatics
Field of study	Computer Science
Education profile	academic
Level of studies	First-cycle Erasmus programme
Beginning semester	winter term 2021/2022

Course information

Semester	5
ECTS credits to win	6
Course type	optional
Teaching language	english
Author of syllabus	• dr inż. Michał Doligalski • dr inż. Jacek Bieganowski

Classes forms

The class form	Hours per semester (full-time)	Hours per week (full-time)	Hours per semester (part-time)	Hours per week (part-time)	Form of assignment
Lecture	15	1	-	-	Exam
Laboratory	30	2	-	-	Credit with grade
Project	15	1	-	-	Credit with grade

Aim of the course

To provide basic knowledge about process modeling and business applications. To introduce understanding of the proper usage of process modeling techniques. To provide basic skills on process modeling. To provide skills on the usage of process modeling environments and languages.

Prerequisites

Principles of computer programming

Scope

Business application – features, classification, modeling. Development of business applications and processes. Tools for development of business applications. Usage of languages and environments: PHP, XML, XSLT, DTD, JS, CSS, AJAX, .NET, JAVA, UML, and Eclipse modeling and development of business applications. Accessing relational databases.

Teaching methods

Lecture, laboratory exercises, project

Learning outcomes and methods of theirs verification

Outcome description	Outcome symbols	Methods of verification	The class form
To introduce the understanding of the proper usage of process modeling techniques.		• an exam - oral, descriptive, test and other	• Lecture
To provide skills on usage of process modelling environments and languages.		• an exam - oral, descriptive, test and other • carrying out laboratory reports	• Lecture • Laboratory
Can realize an example of a business application, working individually or in a team		• an ongoing monitoring during classes • carrying out laboratory reports	• Laboratory • Project
To provide basic skills on process modelling.		• an exam - oral, descriptive, test and other • carrying out laboratory reports	• Lecture • Laboratory

Assignment conditions

- Lecture – the main condition to get a pass are sufficient marks in written exam
- Laboratory – the main condition to get a pass are sufficient marks for all exercises and tests conducted during the semester
- Project – the main condition to get a pass are sufficient marks for all projects conducted during the semester.
- Calculation of the final grade: lecture 40% + laboratory 30% + project 30%

Recommended reading

1. Beynon-Davies P.: Information Systems Development: An Introduction to Information Systems Engineering, Palgrave Macmillan, 1998.

2. Bobzin H, McCammo K.,Tyagi S., Core Java Data Objects, Prentice Hall, 2003.
3. Graham I., O'Callaghan A., Wills A.: Object-oriented methods: principles & practice, AddisonWesley, 2000.
4. Cockburn A.: Writing Effective Use Cases, Addison-Wesley Professional, 2000.

Further reading

Notes

Modified by dr inż. Michał Doligalski (last modification: 08-09-2021 21:17)

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