Subject code	Credits
INF3038	5

Course title in Lithuanian

JAVA OBJEKTINIO PROGRAMAVIMO TAIKYMAI

Course title in English

JAVA OBJECT-ORIENTED PROGRAMMING APPLICATIONS

Short course annotation in Lithuanian (up to 500 characters)

Dalyko tikslas – supažindinti su pagrindinių objektinio programavimo principų taikymu kuriant sudėtingas, pakartotinai panaudojamas, saugias ir plečiamas įmonės saityno taikomąsias programas. Studentai įgija praktinius saityno programavimo Java technologijų taikymo įgūdžius.

Short course annotation in English (up to 500 characters)

The course provides in-depth coverage of object-oriented programming principles and techniques using Java programming language for building of complex, secure, reliable, and scalable web applications in an enterprise environment. Students became familiar with the industry-standard tools used in the development process, and explore numerous Java technologies and practices.

Prerequisites for entering the course

Basic knowledge of programming concepts.

Course aim

Introduction in Java language and Web application development.

Content

No	Content (topics)
1.	Java Platform Overview. Java Syntax. Objects and classes.
2.	Collections and Generics.
3.	Java I/O system.
4.	Concurrency.
5.	Functional programming.
6.	Swing GUI.
7.	JDBC Database Access.
8.	Servlets and Java Server Pages.
9.	Hibernate.
10.	Spring Framework Architecture.
11.	Spring MVC.

Distribution of workload for students (contact and independent work hours)

Lectures	30 hours
Laboratory work	**30 hours**
Individual students work	**70 hours**
Total:	**130 hours**

Structure of cumulative score and value of its constituent parts

Final written exam (50%), mid-term written exam (17%), and assessments of laboratory (practical) work (33%).

Recommended reference materials

No.	Publication year	Authors of publication and title	Publishing house	Number of copies in		
				University library	*Self-study rooms*	*Other libraries*
Basic materials						
1.	2008	A.Deveikis. Objektinis programavimas Java kalba.	VMU	10		
2.	2014	Vishal Layka. Learn Java for Web Development	Apress			http://it-ebooks.info
3.	2009	S. Kendal. Object oriented programming using Java.	Ventus Publishing Aps			http://bookboon.com
Supplementary materials						
4.		The Java™ Tutorials	Oracle	http://docs.oracle.com/javase/tutorial/		

Course programme designed by

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