

Subject code	Credits
INFN1004	4

Course title in Lithuanian
INFORMATIKA
Course title in English
INFORMATICS
Short course annotation in Lithuanian (up to 500 characters)

Dalykas supažindina su pagrindinėmis kompiuterių mokslo ir informacinių technologijų sąvokomis. Studentams suteikiamos žinios apie kompiuterio techninę įrangą ir programinę įrangą, duomenų perdavimą kompiuterių tinklais.

Short course annotation in English (up to 500 characters)

Course introduces main concepts of computer science and information technologies. Students get understanding about computer hardware components and software, data communications, computer networks and internet. Information technologies in perspective are presented.

Prerequisites for entering the course

-

Course aim

Provide knowledge on main of computer hardware and software operation principles.

Content

No	Content (topics)
1.	The concept of computer science. Computer history and generations
2.	Structure of computer system.
3.	Input hardware.
4.	Storage hardware.
5.	Processing hardware.
6.	Output hardware.
7.	Software classification
8.	Operating systems. Windows 8.
8.	Application software. Word processors. MS Word.
9.	Spreadsheets. MS Excel.
10.	Data base management systems. MS Access.
11.	Hypertext, multimedia.
11.	Software for presentation design. MS Power Point.
12.	Software development process.
13.	Programming languages
14.	Networks and Internet.

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

Lectures	30 hours
Laboratory work	30 hours
Individual students work	50 hours
Total:	110 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

N o.	Publicat ion year	Authors of publication and title	Publishing house	Number of copies in		
				Univer sity library	Self- stud y roo ms	Other libraries
Basic materials						
1.	2012	David A. Patterson, John L. Hennessy ,	Elsevier		1	www.cse.hcmut.edu.vn/~vtphuong/KTMT/Slides/ TextBookFull.pdf

		Computer Organization and Design				
1.	2005	Behrooz Parhami. Computer architecture: From Microprocessrs to Supercomputers	Oxford University Press		1	
3.	2014	Birutė Leonavičienė, Microsof Office 2013	Smaltija		1	
4	2013	Antanas Vidžiūnas, Miglė Vidžiūnaitė. Microsof Excel 2013	Smaltija		5	
Supplementary materials						
1.	2014	Alan Freedman, Computer Desktop Encyclopedia	Osborne/Mc Graw-Hill	http://computerlanguage.com/		
2.	2015	Allen B. Downey, Think OS: A Brief Introduction to Operating Systems	Green Tea Press	http://www.greenteapress.com/thinkos/thinkos.pdf		

Course programme designed by

Rita Marčiulynienė