

<b>Subject code</b>	<b>Credits</b>
INF3012	6

**Course title in Lithuanian**

**KOMPIUTERINIŲ SISTEMŲ ADMINISTRAVIMAS**

**Course title in English**

**COMPUTER SYSTEMS ADMINISTRATION**

**Short course annotation in Lithuanian (up to 500 characters)**

Dalykas skirtas supažindinti su kompiuterinių sistemų sandara, parengimo darbui, priežiūros bei veikimo kompiuteriniame tinkle principais. Kurso metu studentai sužinos kokie yra pagrindiniai kompiuterinių sistemų komponentai bei jų savybės, išmoks kompiuterinių sistemų bei pagrindinių interneto tarnybų diegimo ir administravimo principų. Kurse taip pat studentai yra supažindinami su debesų ir virtualizacijos technologijomis, jų praktiniu taikymu IT infrastruktūroje ir išmoks šias technologijas naudoti administravimo užduotims atlikti.

**Short course annotation in English (up to 500 characters)**

The course covers computer systems architectures, their internals, operation in computer network principles, planning and administration strategies. During the course students will gain knowledge on the basic structure of computer systems, their operation, maintenance principles and deployment methods. The course also examines cloud computing and virtualization technologies, internet servers operation and administration principles.

**Prerequisites for entering the course**

Fundamentals of operating systems.

**Course aim**

Provide basic knowledge on structure and design of computer systems, planning, administration strategies and their practical implementation.

**Content**

No	Content (topics)
1.	Introduction to computer systems and cloud computing.
2.	Computer system from computer hardware perspective.
3.	Operating systems and virtualization.
4.	Deployment of computer system.
5.	Basic principles of computer systems networking.
6.	User management.
7.	Resource management and user profiles.
8.	Securing computer systems.
9.	Maintaining computer systems. Logging and monitoring. Automating system tasks. Systems backup.
10.	Web servers. Web server architecture and operating principles. Administering Apache web server.
11.	Database management. Database management systems. MySQL database management principles.

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

<b>Lectures</b>	<b>45 hours</b>
<b>Laboratory work</b>	<b>30 hours</b>
<b>Individual students work</b>	<b>85 hours</b>
<b>Total:</b>	<b>160 hours</b>

**Structure of cumulative score and value of its constituent parts**

Final written exam (30%), mid-term written exam (20%), and assessments of laboratory (practical) work (50%).

**Recommended reference materials**

No.	Publication year	Authors of publication and title	Publishing house	Number of copies in		
				University library	Self-study rooms	Other libraries
<i>Basic materials</i>						
1.	2015	R. Hertzog, R. Mas. The Debian Administrator's Handbook, Debian Jessie from Discovery to Mastery.	Freexian SARL	unlimited online content	unlimited, electronic book	
2.	2007	T. Adelstein, B. Lubanovic. Linux System Administration	O'Reilly		1	
3.	2012	M. Tulloch. Introducing Windows Server 2012 R2.	Microsoft Press	unlimited online content	unlimited online content	
4.	2003	V. Stanfield, R. W. Smith. Linux sistemas	Smaltija		1	more than 5

		administravimas			
<i>Supplementary materials</i>					
	2005	<i>James Turnbull,</i> „Hardening Linux“	Apress		1

**Course programme designed by**

Dr. Andrius Davidsonas
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