

MODERN AND SMART TECHNOLOGY

Title of Study Programme and Code		Type (compulsory/optional)	Cycle	Year of study when the component is delivered (if applicable)
Information Systems Engineering 6531EX043		Compulsory	1 st	2 nd year
Semester/trimester when the component is delivered		Number of ECTS credits allocated	Language of instruction	Mode of delivery (face-to-face/e-learning/...)
4 th		3 ECTS	English	Face-to-face/e-learning
Learning outcomes			Study methods	Assessment methods
After completion of the study subject, a student should be able to:			Demonstration; Analysis and comparison of technologies; Lectures; Laboratory work; Literature analysis; Group project work.	Average of laboratory work assessments; Average of tests assessments; Assessment of project work and its presentation.
LO 1	Know variety of modern and smart technologies and the opportunities of they offer.			
LO 2	Install and adjust to the company needs the modern and smart technology.			
LO 3	Choose the company needs most suitable technologies.			
Prerequisites (these courses must be successfully completed prior to taking this particular course)				
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Course content				
<ol style="list-style-type: none"> 1. Modern and smart technology overview. 2. Cloud computing and its solutions for company. The security assurance. 3. Web 2.0 and 3.0 technologies for efficient enterprise work and information management. 4. "Smart home" technology. 5. Robotic systems. 6. Combining of technologies and company's work optimization. 7. Technology development trends. 				
Recommended or required reading and other learning resources/tools				
<ol style="list-style-type: none"> 1. Anderson P. (2007). What is Web 2.0? Ideas, technologies and implications for education: Joint Information Systems Committee (JISC): http://www.jisc.ac.uk/media/documents/techwatch/tsw0701b.pdf 2. Ricci F., Rokach L., Shapi Ra B. (2011). Introduction to recommender systems handbook. Recommender Systems Handbook. Springer US: http://www.cs.bme.hu/nagyadat/Recommender_systems_handbook.pdf 3. Dix A., Finlay J., Abowd G. D. (2003). Beale R. Human-Computer Interaction, third Edition. Pearson. 4. Brusilovsky P. (2007). Adaptive navigation support. In The adaptive Web. Springer Berlin 				

Heidelberg.

5. Mell P., Grance T. (2011). The NIST Definition of Cloud Computing. Recommendations of the National Institute of Standards and Technology. U.S. Department of Commerce: <http://csrc.nist.gov/publications/nistpubs/800-145/SP800-145.pdf>
6. Bruno Siciliano, Oussama Khatib (2008). Springer Handbook of Robotics. Berlin: Springer.
7. Mark W. Spong, Seth Hutchinson, M. Vidyasagar (2006). Robot Modeling and Control. ISBN 0471649902. Hoboken : John Wiley & Sons, Inc.
8. IBM cloud computing: <http://www.ibm.com/cloud-computing/us/en/what-is-cloud-computing.html>
9. Google Apps for Work: https://www.google.co.uk/intx/en_uk/work/apps/business/?utm_campaign=emea-smb-apps-skws-gb-ot&utm_medium=cpc&utm_source=google&utm_term=cloud%2Bcomputing&gclid=CLzrmLrStMICFSkOwwod3z0Ayg
10. About BTT Cloud: http://btt.lt/lt/btt_cloud/apie_btt_cloud?gclid=CJO2z-HStMICFRHtAodlxoAFQ
11. Dell cloud computing: <http://www.dell.com/learn/us/en/555/dell-cloud-computing>
12. Cloudtech website: <http://www.cloudcomputing-news.net/>
13. Blue Bridge cloud computing: <http://dc.bluebridge.lt/?gclid=COK7kOLTtMICFYrHtAodyU4AsQ>
14. Baltnet cloud computing: <http://www.balt.net/duomenu-centras/serveriai-ir-debesu-kompiuterija/resursu-nuoma-iaas/resursu-nuoma/?gclid=CIC2iP7TtMICFezHtAodGOIAYg>
- BDC cloud computing. Available at: <http://www.bdc.lt/lt/ka-mes-darome/it-sprendimai/debesu-kompiuterija/>
15. Smathouse: <http://smathouse.lt/>