MODULE TUTORIALS AND PROJECT WORK

<table>
<tr><th colspan="2">Title of Study Programme and Code</th><th>Type (compulsory/optional)</th><th>Cycle</th><th>Year of study when the component is delivered (if applicable)</th></tr>
<tr><td colspan="2">Information Systems Engineering 6531EX043</td><td>Compulsory</td><td>1st</td><td>3rd year</td></tr>
<tr><th colspan="2">Semester/trimester when the component is delivered</th><th>Number of ECTS credits allocated</th><th>Language of instruction</th><th>Mode of delivery (face-to-face/e-learning/…)</th></tr>
<tr><td colspan="2">5st</td><td>3 ECTS</td><td>English</td><td>face-to-face</td></tr>
<tr><th colspan="2">Learning outcomes</th><th>Study methods</th><th>Assessment methods</th></tr>
<tr><td colspan="2">After completion of the study subject, a student should be able to:</td><td rowspan="9">Lectures;
Explanation of concepts;
Analysis of problems solved;
Individual solution of problems;
Group tasks.</td><td rowspan="9">Project work presentation.</td></tr>
<tr><td>LO 1</td><td>Know the principles and methods of software development.</td></tr>
<tr><td>LO 2</td><td>Know and apply information and copyright laws.</td></tr>
<tr><td>LO 3</td><td>Find relevant professional information using databases and other sources of scientific and engineering information.</td></tr>
<tr><td>LO 4</td><td>Evaluate the information technology of the organization, to apply the results of experiments in making proposals for modernization of systems.</td></tr>
<tr><td>LO 5</td><td>Analyze information and its importance for decision-making, to present the results of the practical conclusions.</td></tr>
<tr><td>LO 6</td><td>Design and develop information systems and software to meet the needs of the organization through creative application of methods of analysis, design and modeling in the field of informatics engineering.</td></tr>
<tr><td>LO 7</td><td>Recognize and analyze problems in the provision of information services within an organization and plan solutions to them, taking into account societal and environmental impacts and respecting standards of professional ethics and engineering.</td></tr>
<tr><td>LO 8</td><td>Modernize enterprise information technologies.</td></tr>
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Prerequisites (these courses must be sucessfully completed prior to taking this particular course)
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Course content
1. IS engineering concept. 2. IS requirements engineering. 3. technical task. 4. IS project. 5. IS design. 6. IS testing. 7. IS documentation.
Recommended or required reading and other learning resources/tools
1. Roger S. Pressman (2001). Software engineering. A practitionier`s approach. McGraw Hill 2. Software engineering handbook http://www.swebok.org. 3. Ian Sommervile. Software engineering http://www.comp.lancs.ac.uk/computing/resources/IanS 4. Software engineering institute http://www.sei.cmu.edu/ 5. Elmasri R. (2011).Fundamentals of database systems. Edinburg: Pearson Education Limited, Internet site: http://iips.icci.edu.iq/images/exam/databases-ramaz.pdf 6. MySQL Tutorial Video. Internet site: https://www.youtube.com/watch?v=yPu6qV5byu4 7. PHP academy PDO. Internet site: https://www.youtube.com/playlist?list=PLfdtiltiRHWHkDwEoZ29Q9FKtWVjA46HC