



## SOFTWARE ENGINEERING

### Electronics and Informatics Faculty

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<b>STATE CODE</b>	653110001
<b>STUDY FIELD</b>	Software Engineering
<b>DEGREE AND (OR) PROFESSIONAL QUALIFICATIONS AWARDED</b>	Professional Bachelor of Informatics
<b>SPECIALIZATIONS</b>	Database Systems, Internet Technologies, Smart Device Programming
<b>STUDY MODE (LENGTH IN YEARS)</b>	Full-time (3.5 years)
<b>VOLUME OF STUDIES IN CREDITS</b>	210
<b>LEARNING OUTCOMES OF STUDY PROGRAMME</b>	<p><b>General Competencies</b></p> <ul style="list-style-type: none"> <li>- To be able to communicate in official and foreign language.</li> <li>- To be able to give arguments in professional discussion.</li> <li>- To be able to work in team, organize activities.</li> <li>- To be able to follow ethical and professional behaviour.</li> <li>- To be able to evaluate and adapt market changes.</li> <li>- To be able to apply quality management methods.</li> <li>- To be able to study individually, deepen and renew knowledge, improve qualification.</li> <li>- To be able to apply process models in software engineering.</li> <li>- To be able to apply knowledge in practice, making decisions and evaluating the results.</li> </ul> <p><b>Professional Competences</b></p> <ul style="list-style-type: none"> <li>- To be able to analyse and design data structures.</li> <li>- To be able to design and implement algorithms using programming tools.</li> <li>- To be able to select and apply testing tools and methods.</li> <li>- To be able to prepare software user manual and its technical documentation.</li> <li>- To be able to design, create and modify databases.</li> <li>- To be able to design, create and modify software user interfaces.</li> <li>- To be able to design, create and modify software.</li> <li>- To be able to analyse, select and implement information security solutions.</li> </ul>

	<p><b>Specialization – Database Systems</b></p> <ul style="list-style-type: none"> <li>- To be able to create and modify data processing solutions.</li> <li>- To be able to administer database management systems.</li> </ul> <p><b>Specialization – Internet technologies</b></p> <ul style="list-style-type: none"> <li>- To be able to create and modify Web-based services solutions.</li> <li>- To be able to administer Web-based services systems.</li> </ul> <p><b>Specialization – Smart Device Programming</b></p> <ul style="list-style-type: none"> <li>- To be able to create and modify smart device controlling solutions.</li> <li>- To be able to administer Internet of Things systems.</li> </ul>
<b>COURSE INFORMATION</b>	
<i>Full time studies</i>	<a href="#"><u>Admission in 2017 →</u></a>
<b>CAREER OPPORTUNITIES</b>	Graduates will be able to work in software and hardware market in the spheres of software system design, programming, installation and modification.