

<b>Computer Vision</b>					
<b>Course code</b> CIF62051	<b>student workload</b> 90 hours	<b>credits</b> (according to ECTS) 4,5	<b>semester</b> Sem. 6	<b>frequency</b> each even-semester	<b>duration</b> 16 meetings
<b>1</b>	<b>Types of courses</b> <i>Elective</i>	<b>contact hours</b> 63 hours	<b>independent study</b> 27 hours	<b>class size</b> 40 students	
<b>5</b>	<b>Prerequisites for participation</b> Have completed Algorithms and Data Structures Have completed Digital Image Processing				
<b>2</b>	<b>Learning outcomes</b> IF-ILO-3 Graduates are able to develop professional careers in the field of computer science based on quality aspects, data-based decision making, be responsible, and make continuous improvements. IF-ILO-7 Mastering the theoretical concept and principles of computer science, especially in the aspect of algorithms, programming, intelligent systems, information management, parallel and distributed computing, information security, human-computer interaction, software engineering, and fundamentals of computer systems and networks. IF-ILO-10 Graduates are able to analyze, design, build and evaluate an intelligent system that has the ability to learn from the environment.				
<b>3</b>	<b>Subject aims</b> Students are able to demonstrate the basic concepts of image processing. Students are able to calculate image filtering. Students are able to use detection and description methods. Students are able to apply object recognition algorithm.				
<b>4</b>	<b>Teaching methods</b> lectures, case study, class discussion, presentation				
<b>6</b>	<b>Assessment methods</b> assignment, mid-term examination, end-term examination, project evaluation, practical-skill assessment				
<b>8</b>	<b>This module is used in the following degree programmes as well</b>				
<b>10</b>	<b>Responsibility for module</b>				
<b>11</b>	<b>Other information</b>				

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| <ol style="list-style-type: none"><li>1. Szeliski, Richard, "Computer Vision: Algorithms and Applications", Springer, 2011</li><li>2. D. Forsyth, J. Ponce, "Computer Vision - A Modern Approach", Prentice Hall, 2012</li><li>3. Convolutional Neural Networks for Visual Recognition by Fei-Fei Li, Andrej Karpathy, Justin Johnson, and Serena Young, Stanford University, Spring 2017</li></ol> |
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