



Course Title:	Computer Image Processing
Department:	F-3, Department of Computer Science
Course code:	F34-CIP
Erasmus subject code:	Informatics, Computer Science
Number of contact hours:	45 hours
Course duration:	1 semester
ECTS credits:	6
Course description:	Matlab programming, Image Processing Toolbox, digital colour models, colour bit depth, raster image standards, geometrical and arithmetical transformations, resizing algorithms, histogram and operations on it, image binarization, segmentation, logical operations, image filtering, morphological operations, skeletonization, image compression and file formats
Literature:	Solomon, C.J.; Breckon, T.P. <i>Fundamentals of Digital Image Processing: A Practical Approach with Examples in Matlab</i> Wiley-Blackwell, 2010 Rafael C. Gonzalez; Richard E. Woods; Steven L. Eddins <i>Digital Image Processing using MATLAB.</i> Pearson Education 2004
Course type:	Lectures and computer laboratory classes
Assessment method:	Attendance, tests
Prerequisites:	Advanced C programming language
Primary target group:	3-rd –4-th year computer science students
Lecturer:	Piotr Łabędź, PhD
Contact person:	Piotr Łabędź, PhD, plabedz@pk.edu.pl
Deadline for application:	15th of January