

Course Code	TKIT165211											
Course Name	Image Processing and Computer											
Course Instructors	Hanung Adi Nugroho; Igi Ardiyanto											
Course Type	Elective											
Course Classification	Engineering Topics											
Credit / Contact Hour per Week	3 / 150 minutes per Week											
Course Description	In this course, will be taught about the basics of image processing and computer vision. It is expected that students can apply the techniques learned in real-world cases.											
Prerequisites Courses	-											
Covered Student Outcome	Fundamental Engineering Knowledge (a) Modern Tools Utilization (e)											
Learning Mapping												
Code	Learning Outcome	Student Outcome										
LO1	Students are able to apply image processing techniques and computer vision in real cases in everyday life.	Modern Tools Utilization										
LO2	Student are able to explain fundamental of image processing theory and application	Fundamental Engineering Knowledge										
Topic	<ol style="list-style-type: none"> 1. Image Forming 2. Image segmentation 3. Epipolar geometry 4. Camera 5. Image Filtering 6. Detection and Classification 7. Image Segmentation 											
Direct Asessment	<table border="1"> <thead> <tr> <th>Direct Asessment Plan</th> <th>Measured Learning Outcome</th> </tr> </thead> <tbody> <tr> <td>Project</td> <td>LO1</td> </tr> <tr> <td>Mid Exam</td> <td>LO2</td> </tr> <tr> <td>Final Exam</td> <td>LO2</td> </tr> <tr> <td></td> <td></td> </tr> </tbody> </table>		Direct Asessment Plan	Measured Learning Outcome	Project	LO1	Mid Exam	LO2	Final Exam	LO2		
Direct Asessment Plan	Measured Learning Outcome											
Project	LO1											
Mid Exam	LO2											
Final Exam	LO2											
Indirect Assesment	Questionnaire (EDOM)											
References	[1] R. Szeliski, Computer Vision: Algorithm and Applications, Springer, 2010											