Course Code	TKEE163221
Course Name	Images Processing
Course Instructors	Hanung Adi Nugroho, Indah Soesanti, Sunu Wibirama
Course Type	Elective
Course Classification	Engineering Topics
Credit / Contact Hour per Week	3 / 150 minutes per Week
Course Description	This course learns fundamental concepts and theories must be known descriptively or simulated, in the method of processing and its application. These subjects include the definition and scope of image processing techniques, image perception, image digitization, image overlapping, image compression, image enhancement, noise screening on images, image analysis and feature extraction in imagery for image classification and recognition.
Prerequisites Courses	
Covered Student Outcome	**Development of Engineering Solution (b)** **Engineering Design (c)** **Modern Tools Utilization (e)**

Learning Outcome	1. Students are able to quickly understand and be able to solve real problems and the future of image processing technology in the future.
Topic	1. Introduction 2. Image Perception 3. Image Enhancement 4. Image Filtering 5. Image Compression 6. Image Analysis 7. Image restoration 8. Image segmentation 9. Color image processing 10. Morphological image processing 11. Feature extraction (Texture) 12. Feature extraction (Shape and contour)
Direct Asessment	
Indirect Assesment	Questionnaire (EDOM)
References	[1] Jain, A. K., 1989, Fundamental of Digital Image Processing, Prentice Hall [2] Gonzalez, R.C., R.E. Woods, 2008, "Digital Image Processing, Third Edition", Pearson Prentice Hall, New Jersey.

Direct Asessment Plan	**Measured Learning Outcome**
Assignments	LO1
Mid Exam	LO1
Final Exam	LO1