

UNIVERSITAS MATARAM

(University of Mataram)

FAKULTAS TEKNIK

(Faculty of Engineering)

PROGRAM STUDI TEKNIK INFORMATIKA

(Department of Informatics Engineering)

MODULE HANDBOOK DESCRIPTION

Features Extraction (P22A03)

Module designation	Features Extraction
Semester(s) in which the module is taught	6 / third year
Person responsible for the module	Fitri Bimantoro, S.T., M.Kom.
Language	Indonesian
Relation to curriculum	Preference
Teaching methods	Lectures, Discussions, Case Study
Workload (incl. contact hours, self-study hours)	Contact Hours every week, each week of the 16 weeks/semester including Evaluation • 2 x 50 minutes lecturer/week • 2 x 60 minutes class exercise/week • Self Study hours = 120 minutes/week Total workload 340 minutes/week
Credit points	2 (~ 3,2 ECTS)
Required and recommended prerequisites for joining the module	Digital Image Processing, probabilistic and statistic

Module objectives/	In this course, students are expected to be able to:
intended learning outcomes	Able to understand the basic concepts of feature extraction on several data.
	Able to apply several features extraction methods for solving simple cases manually and with computer assistance (independently)
	3. Able to create features extraction programs to solve real cases using own/online datasets (as a group)
Content	this course discusses introduction of feature extraction and digital data, text dataset and how to extract the feature using TF-IDF anf TR-RF, image dataset how to extract the feature using color, tekstur anf shape feature, and implementation on machine learning.
Examination forms	Assignments, Contribution/Activeness in Class, Scheduled Exam
Study and examination requirements	Assignements 25%, Quiz 25 %, Final Project 50%
Reading list	 Feature Extraction, Foundations and Applications. Isabelle Guyon, Steve Gunn. Springer Berlin Heidelberg (Nov 2008)
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