UNIVERSITAS MATARAM
(University of Mataram)
FAKULTAS TEKNIK
(Faculty of Engineering)
PROGRAM STUDI TEKNIK INFORMATIKA
(Department of Informatics Engineering)

MODULE HANDBOOK DESCRIPTION

Research Information Technology (K22B56)

Module designation	Research Information Technology
Semester(s) in which the module is taught	*5 / fourth year*
Person responsible for the module	1. Heri Wijayanto, S.T., M.T., Ph.D. *2. Arik Aranta, S.Kom., M.Kom*
Language	*Indonesian*
Relation to curriculum	*Compulsory*
Teaching methods	*Lectures, Discussions, Project*
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	Scientific Writing Paper

Module objectives/intended learning outcomes	Research on information technology asked to explore and observe several cases, related to the local problems and to design the way of solving the problems in the research. Several cases and project are given to students that are taken from national and international journals. 1. Able to know the field of research in the field of information technology 2. Able to Explain Various Concepts in the Field of Information Technology 3. Able to Formulate Research Framework Problems in the Field of Information Technology AI (Artificial Intelligence), ML (Machine Learning), IS (Information System), IOT (Internet of Think) 4. Able to review literature in the field of information technology 5. Able to build a research background and build hypotheses in the field of information technolog 6. Able to Design Research Flows and Prepare Research Proposals
Content	Research on information technology asked to explore and observe several cases, related to the local problems and to design the way of solving the problems in the research. Several cases and project are given to students that are taken from national and international journals. in this course student will learn about: 1. Research in Iformatic tecnology 2. Research Ethics (copy right; privacy; citation) 3. Determining the research problems (literature survey, observation, etc) 4. Research methodology 5. Data Acquisition 6. Data analyzing 7. Reporting
Examination forms	*Assignments, Quiz, Simulation, Project (Oral Presentation)*
Study and examination requirements	*Assignements 35%,* *Presentation 35%,* *Project 40%*

Reading list	1. *Guritno, S., Sudaryono, S., & Rahardja, U. (2010). Theory and application of IT Research (1st ed.). Andi.*
	2. *Thiel, D., V. (2014). Research Methods for Engineers (1st ed.). Cambridge University Press.*