MODULE HANDBOOK
Decision Support Systems

BACHELOR DEGREE PROGRAM

DEPARTMENT OF MATHEMATICS

FACULTY OF SCIENCE AND DATA ANALYTICS

INSTITUT TEKNOLOGI SEPULUH NOPEMBER

MODULE HANDBOOK

Decision Support Systems

Module name	**Decision Support Systems**
Module level	Undergraduate
Code	KM184833
Course (if applicable)	**Decision Support Systems**
Semester	Spring (Genap)
Person responsible for the module	Alvida Mustika Rukmi, S.Si., M.Si.
Lecturer	Alvida Mustika Rukmi, S.Si., M.Si.
Language	Indonesia and English
Relation to curriculum	Undergraduate degree program, **elective**, 8th semester.
Type of teaching, contact hours	Lectures, <60 students
Workload	1. Lectures : 2 x 50 = 100 minutes per week. 2. Exercises and Assignments : 2 x 60 = 120 minutes (2 hours) per week. 3. Private learning : 2 x 60 = 120 minutes (2 hours) per week.
Credit points	2 credit points (sks)
Requirements according to the examination regulations	A student must have attended at least 80% of the lectures to sit in the exams.
Mandatory prerequisites	Object Oriented Programming
Learning outcomes and their corresponding PLOs	Course Learning Outcome (CLO) after completing this module, 1. The students are able to explain the decision-making frameworks in management. 2. The students are able to explain the basic concepts of decision making 3. The students are able to understand the characters and capabilities of decision support systems 4. The students are able to understand the models and analysis in decision support systems 5. The students are able to recognize and understand issues in business intelligence 6. The students are able to explain the Company's information systems and where the decision support system is applied

	7. The students are able to explain about knowledge managements 8. The students are able to understand the effects of electronic commerce on decision making 9. The students are able to understand the impacts or influences of the management support system
Content	Management support systems, decision making, systems and support, decision support systems, data management, data modeling and management, user interfaces, building decision support systems, organizations of decision support systems, group decision support systems, executives and their support systems, knowledge and data machines, applications and models of decision support systems.
Study and examination requirements and forms of examination	• In-class exercises • Assignment 1, 2 • Mid-term examination • Final examination
Media employed	LCD, whiteboard, websites (myITS Classroom), zoom.
Reading lists	Main: 1. Turban, Efraim & Aronson, Jay E., “Decision Support Systems and IntelligentSystems”, 8th edition, Prentice Hall, Upper Saddle River, NJ, 2007 Supporting reference: 1. Marakas, George M. “Decision Support Systems in the 21st Century”, 2nd Edition,Prentice Hall, 2003 2. Vicki L. Sauter, Decision Support for Business Intelliegence, John Wiley & Sons, 2010 3. Prague, Ralph, H & Hugh, J. Watson, "Decision Support Systems", Prentice Hall, Inc., 1993