



**INSTITUT TEKNOLOGI SEPULUH NOPEMBER
FACULTY OF SCIENCE AND DATA ANALYTICS
DEPARTMENT OF STATISTICS
STATISTICS UNDERGRADUATE PROGRAM**

Course	Course Name	:	Management Information System
	Course Code	:	SS234627
	Credit	:	3 SKS
	Semester	:	VI

COURSE DESCRIPTION

Management of Information Systems are courses in computing. Competencies that want to be achieved after attending this course are students can:

1. Understand the concept of computer-based management of Information and Information management as a means of management in decision making in controlling an organization both academic institutions and the modern business world;
2. Using information technology to gain a competitive advantage for individuals and organizations;
3. Create a management information system in various fields.
4. Learning strategies applied in this lecture students are given an explanation of the understanding of computer-based information and information management in human resource management systems, finance, manufacturing, marketing and some other modern business system management.

The end of this lecture students make an application management information system by adding statistical method feature in the application to provide support in decision making.

PROGRAM LEARNING OUTCOME

- PLO-6 Able to design, collect, and perform data management with the right methodology
 PLO-7 Able to use modern computing devices to solve statistical problems
 PLO-8 Able to use computational techniques to solve statistical problems

COURSE LEARNING OUTCOME

- CLO.1 Able to apply knowledge of Management Information System concept
 CLO.2 Able to explain the procedure for creating a Management Information System
 CLO.3 Able to apply Management Information System to analyze data and interpret it
 CLO.4 Able to identify, formulate, and solve statistical problems using Management Information System techniques
 CLO.5 Able to use computing techniques and modern computer devices required in the creation of Management Information Systems
 CLO.6 Have knowledge of current and upcoming issues related to the field of Management Information Systems
 CLO.7 Able to communicate effectively and cooperate in interdisciplinary and multidisciplinary teams

CLO.8	Has professional responsibilities and ethics
CLO.9	Able to motivate yourself to think creatively and learn throughout life
MAIN SUBJECT	
<ol style="list-style-type: none"> 1. Basic System Concepts 2. Information Resources 3. Information and technology management 4. Database Concept 5. The concept of normalization 6. Relationship concept 7. Create a database management system and programs using MSAccess 8. Case Study of Data Base Design with MS Access 9. Introduction to SQL 10. Case study of simple data base design with SQL 11. Information System Analysis Using Case Studies 	
PREREQUISITE	
Computer Programming	
REFERENCES	
<ol style="list-style-type: none"> 1. Alexander, M. and Kusleika, R., 2016. Access 2016 Bible. 1st edition. Indianapolis, Indiana, USA : John Wiley and Sons Inc. 2. Churcher, C. 2012. Beginning Database Design : From Novice to Professional, KG, Berlin, Germany : Springer-Verlag Berlin and Heidelberg GmbH dan Co. 3. Hales, J. 2005. SQL Guide. Boca Raton, United States: Barcharts. 4. Kroenke, Hatch. 1994. Management Information System. McGraw Hill. 5. Oz, E., 2009. Management Information Systems. 6th edition. Thomson Course Technology. 6. Raymond, McLeod. 1996. Sistem Informasi Manajemen (terjemahan) jilid 1 dan 2. Prentice Hall. 7. Turban, E., Volonino, L. and Wood, G. R., 2013. Information Technology for Management: Advancing Sustainable, Profitable Business Growth. 9th edition. John Wiley dan Sons. 8. Turban, E., McLean, E. and Wetherbe, J., 2013. Information Technology for Management: Transforming Organizations in the Digital Economy. 9th edition. John Wiley dan Sons. 9. Viescas, J. L. and Hernandez, M. J., 2014. SQL Queries for Mere Mortals: A Hands-On Guide to Data Manipulation in SQL. 3rd edition. Ann Arbor, Michigan : Edwards Brothers Malloy. 	