

# Information Systems

## Introduction

In this internet-of-everything era, positioning of information systems in businesses has changed from secondary needs to primary one. A good investment of technology in a business might give many positive contributions to the company in winning the competitions. Technology couldn't be successfully implemented alone by itself; its implementation should be supported along with a readiness of new business process and also people aspect of the company, which the students will learn about these in the Information Systems study program. In this study program, students will also learn how to supply the business needs with a suitable development, utilization, and investment of information systems.

## Vision

A study program of choice that excels in providing high-level Information systems education is specialized in business-IT, recognized internationally, and champions innovation. We produce graduates with international qualifications.

## Mission

The mission of Information Systems Department is to contribute to the global community through the provision of world-class education by:

1. Nurturing students and lecturers with creative and value-adding talents in Information Systems by creating a suitable environment.
2. Educating students in information systems, covering knowledge and skills in analyzing, designing and implementing information systems for improving business processes and to be able to create an innovative and valuable information systems solution, through intensive learning process, research activities and collaboration with global industries.
3. Providing integrated knowledge to pursue further studies and create outstanding professionals, entrepreneurs, and leaders for a global community.
4. Providing professional services in Information Systems with an emphasis on the application of knowledge to society.
5. Improving the quality of life of Indonesians and the international community through leveraging Information systems solutions.

## Program Objective

The objectives of the program:

1. To provide students with a solid foundation of system development skills and knowledge that they will need as a system analyst.
2. To prepare students with skills and in depth knowledge of information systems related to business intelligence, e-business and strategic information systems.
3. To provide students with the ability to use applied business knowledge for specific industrial purposes.

## **Student Outcomes**

After completing the study, graduates are:

1. Able to identify and formulate the root cause of system performance information through data analysis and information on business processes.
2. Able to identify the needs of the database for building information systems.
3. Able to design, create and manipulate and implement computer-based information systems independently or in groups through the study of information systems to develop a strategic plan at the level of small and medium organizations.
4. Able to design, create, manipulate and implement computer based information systems for new business model and processes in an organization at the level of small and medium-sized.
5. Able to communicate alternative solutions development and implementation of information systems based on theory either independently or in groups in writing, designing, and prototyping.
6. Able to perform management, integration and added value on the results of data analysis to produce high quality information to the organization's needs, especially in business management in retail.
7. Able to identify the needs and design the proposed business processes and ICT systems, considering the principles of management in business management in retail.
8. Able to perform a feasibility study and evaluation to produce the alternative solutions of information systems development for business management in retail.

## **Prospective Career of the Graduates**

With the above-mentioned skills and knowledge, the Information Systems graduate is able to follow a career in:

1. Project Manager
2. Applications Development Manager
3. Information Center Manager
4. Operations Manager
5. Emerging Technologies Manager
6. Digital Marketing Manager
7. IS/IT Audit Manager
8. UX Manager
9. System Analyst
10. Business Analyst
11. IS/IT Auditor
12. IS/IT Consultant
13. Applications Programmer
14. Database Administrator
15. Business Process Specialist
16. UX Specialist
17. Webmaster
18. Web Designer

## Curriculum

The Information Systems curriculum is designed and referred to the curriculum recommended by ACM and AIS, IS 2002 (Model curriculum and guidelines for undergraduate degree program in Information Systems), IS 2010 (Curriculum guidelines for undergraduate degree program in Information Systems), Computing Curricula 2005 and A Cooperative Project of ACM, AIS, IEEE-CS. In addition, the curriculum has been influenced by foreign universities with a reputation for quality Information Systems Study Programs.

The curriculum for the next four years consists of:

1. Information Systems, Business Process and Enterprise Systems
2. Database, Information and Knowledge Management
3. Information Systems Analysis and Design
4. Programming, Testing, and Implementation
5. Financial Accounting, Business Fundamentals, Statistics, Research Methodology

## Course Structure

Sem	Code	Course Name	SCU	Total
1	ACCT6174	Introduction to Financial Accounting	4	20
	ISYS6299	Information System Concept	4	
	ISYS6300	Business Process Fundamental	4	
	ISYS6225	Management Information Systems	4	
	COMP6223	Introduction to Programming	2/2	
2	ISYS6304	Business Application Development	2/2	20
	ISYS6306	Information Systems Analysis and Design	2/2	
	ISYS6302	Information System Development	2/2	
	ISYS6303	Introduction to Database Systems	2/2	
	ENGL6163	English Professional	4	
3	CHAR6019	Character Building: Pancasila	2	20
	STAT6111	Statistics	2	
	ISYS6305	Enterprise System	4	
	ISYS6310	Information Systems Project Management	4	
	ISYS6307	Data and Information Management	4	
	ISYS6313	Analytical Information System	4	
4	CHAR6020	Character Building: Kewarganegaraan	2	20
	ISYS6308	User Experience	2/2	
	ISYS6427	Testing and System Implementation	6	
	ISYS6311	Advanced Information System Analysis and Design	4/2	
	ISYS6314	Information System Security	2	

Sem	Code	Course Name	SCU	Total
5	CHAR6021	Character Building: Agama	2	22
	MKTG6125	Retail and Merchandising	4	
	ISYS6316	Enterprise Architecture	4	
	ISYS6334	Information Systems Audit Fundamental	4	
	ENTR6081	Entrepreneurship	4	
	MGMT6170	Business Quantitative Method	4	
6	ISYS6317	Business Process Management	4	18
	ISYS6333	Data & Text Mining	4	
	ISYS6318	e-Business Concept	4	
	MKTG6126	Customer Relationship Management	4	
	STAT6112	Research Methodology	2	
7	ISYS6428	Advanced Topics in Information Systems	6	20
	MGMT6160	Global Supply Chain Management	4	
	LANG6031	Indonesian	2	
	ISYS6332	Data Warehouse	4	
	ISYS6323	Management Support System	4	
8	ISYS6327	Thesis	6	6
<b>Total Credit 146 SCU</b>				

**Students should pass all of these quality controlled courses as listed below:**

No	Code	Subject	Grade minimal
1	CHAR6019	Character Building: Pancasila	B
2	ENTR6081	Entrepreneurship	C
3	ISYS6305	Enterprise System	C
4	ISYS6306	Information System Analysis and Design	C
5	ISYS6307	Data and Information Management	C
6	ISYS6310	Information Systems Project Management	C
7	ISYS6316	Enterprise Architecture	C
8	ISYS6332	Data Warehouse	C