

## **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 through the study of information systems to develop a strategic plan at organizations.
4. Able to design, create, manipulate and implement computer based-based information systems for new business model and processes.
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 in every business functions in the organization.
7. Able to provide suggestions related to the design of systems and information technology and communication, and its utilization to support the growth and development of business organizations in the digital world.
8. Able to evaluate the integration of business processes and information systems in every business function of the organization, to generate alternative suggestion for the development of information systems in the organization.
9. Able to solve problems with inter-discipline approach.

### **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.

**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	
	COMP6598	Introduction to Programming	4	
	ISYS6505	Information System Development	4	
2	CHAR6019	Character Building: Pancasila	2	20
	ISYS6305	Enterprise System	4	
	MGMT6072	Introduction to Management and Business	4	
	ISYS6506	Information Systems Analysis and Design	6	
	ISYS6310	Information Systems Project Management	4	
3	CHAR6020	Character Building: Kewarganegaraan	2	22
	ISYS6513	Database System and Management	6	
	ISYS6318	E-Business Concept	4	
	LANG6031	Indonesian	2	
	ISYS6507	Testing and System Implementation	4	
	ISYS6509	User Experience	4	
4	ENTR6081	Entrepreneurship	4	22
	CHAR6021	Character Building: Agama	2	
	ISYS6514	Business Application Development	6	
	STAT6145	Business Statistics	6	
	ISYS6319	Knowledge Management	4	
5	ISYS6515	Research Methods in Information Systems	4	20
	ISYS6313	Analytical Information System	4	
	ISYS6320	Social Informatics	4	
	ISYS6317	Business Process Management	4	
	ISYS6516	Information System Security	4	
6	<b>Minor Program Business Management</b>			16
	COMM6457	Business Communication	4	
	MGMT6320	Human Resource Management	4	
	ENTR6488	Business Plan	4	
	MGMT6321	Application of Change Management	4	
	<b>Minor Program Computer Science</b>			16
	COMP6615	Interface Design	4	
	CPEN6213	Wide Area Networks	4	
	COMP6616	Web Application	4	
	COMP6617	Cloud Computing	4	

Sem	Code	Course Name	SCU	Total
7	ISYS6332	Data Warehouse	4	20
	ISYS6316	Enterprise Architecture	4	
	ENGL6163	English Professional	4	
	ISYS6312	IS Strategy, Management and Acquisition	4	
	ISYS6517	Advanced Topics in Information Systems	4	
8	ISYS6327	Thesis	6	6
<b>Total Credit 146 SCU</b>				

**Minor Program (6<sup>th</sup> Semester):**

-) Student will take one of minor program track. See minor scheme for the tracks detail.

**Minor Track Scheme**

Track	1 <sup>st</sup> Period				2 <sup>nd</sup> Period			
	BM	AF	IS	CS	BM	AF	IS	CS
1	V	-	-	-	V	-	-	-
2	-	-	-	V	-	-	-	V

Notes:

BM : Business Management Minor Program

AF : Accounting and Finance Minor Program

IS : Information Systems Minor Program

CS : Computer Science Minor Program

Notes:

Student will take one of Minor Program tracks

**Minor Program Track**

Code	Course Name	SCU	Total
<b>Minor Program 1<sup>st</sup> Period</b>			8
ISYS6519	Introduction to Business Process	4	
ISYS6520	E-Business Analyze and Design	4	
<b>Minor Program 2<sup>nd</sup> Period</b>			8
ISYS6521	Knowledge Management Fundamentals	4	
ISYS6522	IS Project Management Planning	4	

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

No	Course Code	Course Name	Minimal Grade
1	CHAR6019	Character Building: Pancasila	B
2	ENTR6081	Entrepreneurship	C
3	ISYS6305	Enterprise System	C
4	ISYS6506	Information Systems Analysis and Design	C
5	ISYS6310	Information Systems Project Management	C
6	ISYS6513	Database System and Management	C
7	ISYS6320	Social Informatics	C
8	ISYS6316	Enterprise Architecture	C