

Information Systems

Introduction

The need for Information technology in the business industry has shifted into an environment that is more outward looking in order to compete in the free market. Information Technology is closely related to Information Systems in their joint support of the organization. They facilitate the smooth running of the whole organization and strengthen its competitiveness.

Information Systems supports staff, records, communication, and the information technology that together helps develop the business operation as well as assisting with problem solving and management decision making.

The Information Systems Study Program was founded to meet the demand for skilled human resources in the field of information systems. The scope of study in the Program includes Information Systems: development, methods and equipment (language programming and database) and also information system management.

Vision

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

Mission

The mission of Information System 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 System 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 system 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 System 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 system solutions.

Program Objective

The objectives of the program are :

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 industry purposes.

Graduate Competency

At the end of the program, graduates will be able to :

1. Illustrate an understanding of Information System Framework
2. Analyze information requirements and business processes.
3. Design systems that are aligned with organizational goals.
4. Manage and integrate data to produce good quality information.
5. Analyze, design, implement and evaluate strategic corporate information systems.
6. Analyze, design and implement E-business technology and applications.
7. Deploy business application effectively

Prospective Career of the Graduates

Graduates will have the necessary skills to work in the following:

1. Corporate Information Systems
2. Database and E-Business
3. Information System Department
4. Information System Development Project
5. Programmer Analyst
6. System Support
7. System Design
8. Database Administrator
9. IT/IS Consultant
10. Web-Developer/Web-Designer

Curriculum

The Information Systems Study Program curriculum is designed in such a way as to refer to the curriculum recommended by ACM - namely ISSC'99 (Information System-Centric Curriculum '99 for educating the Next generation of Information Systems Specialists, in collaboration with industry), IS 2002 (Model curriculum and guidelines for undergraduate degree program in Information system) ACM and AIS, MSIS 2000 (Model curriculum and guidelines for undergraduate degree program in Information System) ACM and AIS, 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 therefore consists of:

1. Information Systems/Information Technology
2. Organization, Management, and Character Building
3. Information Systems Development and its Implementation
4. Mathematics and Research
5. Concentration Subject of Strategic Information System, Business Intelligence and E-Business

Course Structure

Sem	Code	Course Name	SCU	Total
1	CB412	CB: Self Development	2	20
	A0354	Accounting	4	
	J0712	Introduction to Business	2	
	M0014	Information System Concept	4	
	T0622	Introduction to Information Technology	2	
	I0284	Statistics	4	
	G1372	English Entrant	2	
2	CB422	CB: Spiritual Development	2	20
	J0562	Management	2	
	M0034	Information and Business Process	4	
	T1446	Algorithm and Programming	2/4	
	G1382	English in Focus	2	
	M0054	Information System Development	2/2	
3	H0532	Computer Network	2	24
	M0892	Management Information System	2	
	G1392	English Savvy	2	
	EN001	Entrepreneurship I	2	
	M0086	Information System Analysis and Design	4/2	
	T1456	Object Oriented Programming	2/4	
	M0564	Introduction to Database Systems	2/2	

Sem	Code	Course Name	SCU	Total	
4	CB432	CB: Interpersonal Development	2	24	
	T0084	Human and Computer Interaction	2/2		
	M1006	Advanced Information System Analysis and Design*	4/2		
	T1464	Programming for Business	2/2		
	Stream : Business Intelligence				
	M0724	Business Intelligence	4		
	M0174	Object Oriented Database	4		
	Stream : Strategic Information System				
	M0164	End-User Information System	4		
	M0154	Management Support System	4		
	Stream : E-Business				
	M0204	eBusiness Concept	4		
	M0284	Technology and Infrastructure of eBusiness	4		
	Stream : Applied ERP				
	M0734	Business Process Reengineering	4		
	M0594	Enterprise System	4		
	Stream : Applied Database				
M0724	Business Intelligence	4			
M0174	Object Oriented Database	4			
5	EN002	Entrepreneurship II	2	20	
	M0114	Web-Based Programming	2/2		
	M1016	Information System Minor Project*	6		
	Stream : Business Intelligence				
	M0574	Decision Support System	4		
	M0754	Database Design	4		
	Stream : Strategic Information System				
	M0734	Business Process Reengineering	4		
	M0594	Enterprise System	4		
	Stream : E-Business				
	M0764	E-Business Marketing	4		
	M0294	eBusiness Analysis and Design	4		
	Stream : Applied ERP				
	M0954	Applied ERP I	4		
	M0244	Information System Strategic Planning	4		
	Stream : Applied Database				
	M0924	Applied Database I	4		
M0754	Database Design	4			

Sem	Code	Course Name	SCU	Total	
6	I0192	Research Methodology	2	22	
	M0134	Project Management	4		
	M1022	Advanced Topics in Information System	2		
	K0442	Quantitative Methods	2		
	M0232	Testing and Implementation	2		
	Stream : Business Intelligence				
	M0744	Database Management	2/2		
	M0774	Data Warehouse	4		
	M0782	Text Mining Concept	2		
	Stream : Strategic Information System				
	M0624	Information Technology Valuation	4		
	M0244	Information System Strategic Planning	4		
	M0792	Information System Security	2		
	Stream : E-Business				
	M0804	E-Learning	4		
	M0884	Advanced Web-Based Programming	2/2		
	M0812	E-Business Security	2		
	Stream : Applied ERP				
	M0962	Applied ERP II	2		
	M0972	Applied ERP III	2		
	M0792	Information System Security	2		
	M0304	Corporate Information System Management	4		
	Stream : Applied Database				
M0934	Applied Database II	4			
M0774	Data Warehouse	4			
M0782	Text Mining Concept	2			
7	CB442	CB: Professional Development	2	10	
	M0224	Knowledge Management	4		
	Stream : Business Intelligence				
	M0824	Data Mining	4		
	Stream : Strategic Information System				
	M0304	Corporate Information System Management	4		
	Stream : E-Business				
	M0834	E-Business Strategy	4		
	Stream : Applied ERP				
	M0982	Applied ERP IV	2		
	M0992	Applied ERP V	2		
	Stream : Applied Database				
M0944	Applied Database III	4			

Sem	Code	Course Name	SCU	Total
8	M0336	Thesis	6	6
	Elective Courses			
	G1402	English for Business Presentation	2	
	G1412	English for Written Business Communication	2	
				TOTAL CREDIT 146

*) Entrepreneurship embedded

Student should pass all of these quality controlled examination as listed below:

No	Code	Course Name	Minimum Grade
1	CB412	CB: Self Development	B
2	EN002	Entrepreneurship II	C
3	M0014	Information System Concept*	C
4	M0086	Information System Analysis and Design*	C
5	M0564	Introduction to Database Systems	C
6	M0134	Project Management	C
Stream			
Business Intelligence			
7	M0724	Business Intelligence	C
8	M0754	Database Design*	C
Strategic Information Systems			
7	M0244	Information System Strategic Planning*	C
8	M0304	Corporate Information System Management	C
E -Business			
7	M0204	eBusiness Concept	C
8	M0294	eBusiness Analysis and Design*	C
Applied ERP			
7	M0594	Enterprise System	C
8	M0244	Information System Strategic Planning*	C
Applied Database			
7	M0724	Business Intelligence	C
8	M0754	Database Design*	C

*) Tutorial & Multipaper