

## **Information Systems Global Class**

### **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 as a discipline make positive contribution to organizations, especially in information era, where the information accessed and distributed easily. Information systems helps organization in managing data as an asset, that data collected and presented by information systems could be use for problem solving and management decisions 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: information systems development including information systems analysis, design and implementation (programming), management information systems, enterprise systems, database, and IS project 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 programme 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.

## **Student Outcomes**

After complete the study, graduate 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 data base for building information systems.
3. Able to design, create and manipulate and implement computer-based information system 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 system 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. Graduates are able to manage, integrate and add value on the results of data analysis to generate quality information for organization needs.
7. Able to identify needs, design and implement system and ICT to build a web based business application for organization.
8. Able to evaluate business process integration and corporate strategy for designing an integrated information system in organization.

## **Prospective Career of the Graduates**

Graduates will have the necessary skills to work as:

1. Application Developer
2. System Analyst
3. Business Analyst
4. Business Process Analyst
5. Database Administrator
6. Database Analyst
7. E-Business Specialist
8. ERP Specialist
9. IT Architect
10. IT Consultant
11. System Designer

12. Database Administrator
13. IT/IS Consultant
14. 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 and AIS, IS 2002 (Model curriculum and guidelines for undergraduate degree program in Information systems), IS 2010 (Curriculum guidelines for undergraduate 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 therefore 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, Statistics, Research Methodology.

Concentration Subject of Strategic Information System, Business Intelligence, E-Business, Applied Database and Applied ERP.

### Course Structure

Sem	Code	Course Name	SCU	Total
1	ENGL6132	English Access	2	20
	ACCT6133	Introduction to Financial Accounting	4	
	ISYS6186	Business Process Fundamental	4	
	ISYS6093	Information System Concept	4	
	STAT6081	Statistics	2	
	COMP6178	Introduction to Programming	2/2	
2	CHAR6013	Character Building: Pancasila	2	21
	ENGL6133	English Global	2	
	ISYS6123	Introduction to Database Systems	2/2	
	ISYS6188	Information Systems Analysis and Design	2/2	
	ISYS6189	Management Information System	4	
	ISYS6197	Business Application Development	2/2	
	LANG6061	Indonesian	1	
3	CHAR6014	Character Building: Kewarganegaraan	2	22
	ISYS6126	Enterprise System	4	
	ENTR6003	Entrepreneurship I	2	
	ISYS6209	User Experience	2/2	
	ISYS6264	Testing and System Implementation	4	

Sem	Code	Course Name	SCU	Total
	ENGL6134	English for Academic Writing	2	
	ISYS6198	Data and Information Management	4	
4	CHAR6015	Character Building: Agama	2	22
	ISYS6163	Advanced Information System Analysis and Design*	4/2	
	ISYS6256	Information Systems Project Management	4	
	ISYS6211	Web Based Application Development	2/2	
	STAT6021	Research Methodology	2	
	ISYS6204	e-Business Design	4	
5	ISYS8108	Knowledge Management	4	24
	ISYS6191	Advanced in Business Application Development*	2/4	
	ENTR6004	Entrepreneurship II	2	
	ISYS6187	Business Web Solution	4	
	ISYS6289	Collaborative Computing	4	
	ISYS6203	Mobile Applications Development	2/2	
6	<b>Elective courses list for study abroad</b>			15
	GLOB6029	Elective Course 1	4	
	GLOB6030	Elective Course 2	4	
	GLOB6031	Elective Course 3	4	
	GLOB6032	Elective Course 4	4	
	GLOB6033	Elective Course 5	2	
	GLOB6034	Elective Course 6	2	
	GLOB6035	Elective Course 7	2	
	GLOB6036	Elective Course 8	2	
	GLOB6037	Elective Course 9	2	
	GLOB6038	Elective Course 10	2	
	GLOB6039	Elective Course 11	2	
	GLOB6040	Elective Course 12	2	
	GLOB6083	Elective Course 13	3	
GLOB6084	Elective Course 14	1		
7	<b>Enrichment Program</b>		16	16
8	ISYS6117	Thesis	6	6
<b>TOTAL CREDIT 146 SCU</b>				

\*) *Entrepreneurship embedded*

**Elective Courses (6<sup>th</sup> Semester):**

-) *Student will take Elective Courses in foreign countries*

**Enrichment Program (7<sup>th</sup> Semester):**

-) *Student will take one of enrichment program tracks (off campus)*

### Enrichment Track Scheme

Track	Semester 6						Semester 7					
	I	RS	ENTR	CD	SA	*etc	I	RS	ENTR	CD	SA	*etc
1					v		v					
2					v			v				
3					v					v		

Notes:

- I : Internship
- RS : Research
- ENTR : Entrepreneurship
- CD : Community Development
- SA : Study Abroad
- \*etc : Departement specific needs

Notes:

Student can choose one of the available tracks

### Enrichment Internship Track

Code	Course Name	SCU	Total
ISYS6347	Professional Program in Industry	8	16
BUSS6057	Business Ethic	4	
ISYS6194	Applied Topics in Information Systems	4	

### Enrichment Research Track

Code	Course Name	SCU	Total
RSCH6275	Research Experience	8	16
RSCH6110	Scientific Writing in Information Systems Research	4	
RSCH6285	EES in Information Systems Research	4	

### Enrichment Community Development Track

Code	Course Name	SCU	Total
CMDV6156	Community Outreach Project Implementation	8	16
CMDV6035	Community Outreach Project Design in Information Systems	4	
CMDV6175	Employability and Entrepreneurial Skills in Information Systems Community	4	

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

No	Code	Course Name	Minimum Grade
1	CHAR6013	Character Building: Pancasila	B
2	ENTR6004	Entrepreneurship II	C
3	ISYS6126	Enterprise System	C
4	ISYS6188	Information System Analysis and Design*	C
5	ISYS6198	Data and Information Management*	C
6	ISYS6256	Information Systems Project Management	C
7	ISYS6204	e-Business Design*	C
8	ISYS6187	Business Web Solution	C

\*) Tutorial & Multipaper