

# 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 distance learning 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 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 industry purposes.

## Student Outcomes

After completing the study, graduates are:

1. Able to identify and formulate the root cause of information system performance through data and information analysis on business processes.
2. Able to identify the database needs to build information system.
3. Able to design, create and manipulate and implement computer-based information systems through the study of information systems to develop a strategic plan for organizations.
4. Able to design, create, manipulate and implement computer-based information system for new business model and process.
5. Able to communicate type of information systems development alternative that are in accordance with the business needs of the company and the supporting aspects that are important in its development.
6. Able to communicate solutions of information systems management and utilization for achieving corporate business strategy.
7. Able to solve problems through the multidisciplinary 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	ISYS6299	Information System Concept	4	20
	ACCT6174	Introduction to Financial Accounting	4	
	COMP6598	Introduction to Programming	4	
	ISYS6300	Business Process Fundamental	4	
	ISYS6597	Introduction to Database Systems	4	
2	CHAR6019	Character Building: Pancasila	2	20
	LANG6031	Indonesian	2	
	ISYS6611	Information Systems Analysis and Design	6	
	ISYS6507	Testing and System Implementation	4	
	ISYS6601	User Experience Research and Design	6	
3	CHAR6020	Character Building: Kewarganegaraan	2	20
	ISYS6305	Enterprise System	4	
	ISYS6604	Advanced Information System Analysis and Design	6	
	ISYS6307	Data and Information Management	4	
	ENGL6163	English Professional	4	
4	ISYS6514	Business Application Development	6	20
	ISYS6310	Information Systems Project Management	4	
	CHAR6021	Character Building: Agama	2	
	ISYS6515	Research Methods in Information Systems	4	
	ENTR6081	Entrepreneurship	4	
5	MGMT6072	Introduction to Management and Business	4	20
	ISYS6318	E-Business Concept	4	
	ISYS6332	Data Warehouse	4	
	ISYS6316	Enterprise Architecture	4	
	ISYS6313	Analytical Information System	4	
6	ISYS6516	Information System Security	4	20
	ISYS6317	Business Process Management	4	
	ISYS6320	Social Informatics	4	
	ISYS6312	IS Strategy, Management and Acquisition	4	
	ISYS6605	Business Intelligence	4	
7	<b>Enrichment Program</b>			20
8	ISYS6327	Thesis	6	6
<b>Total Credit 146 SCU</b>				

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

- Student will take one of enrichment program tracks. See enrichment appendix for the tracks detail.

**Enrichment appendix: Technopreneur Minor program**

Course Code	Course Name	SCU	Total
ACCT6384	Accounting for Small Medium Enterprise	4	20
MKTG6296	Digital Marketing for Manager	4	
ISYS6619	UX for Digital Business	4	
COMP6725	Big Data Technologies	4	
ISYE6196	Industrial Feasibility Analysis	4	

*Student will take all courses from the list above.*

**Enrichment appendix: Free Electives**

No	Code	Course	SCU	Program
1	MGMT6413	Introduction to Business and Economics	4	ACCT-PJJ
2	ACCT6130	Cost Accounting	4	ACCT-PJJ
3	ACCT6374	Managerial Accounting & Strategic Planning	4	ACCT-PJJ
4	ACCT6194	Ethics and Corporate Governance	4	ACCT-PJJ
5	ACCT6193	Research Methodology in Accounting and Finance	4	ACCT-PJJ
6	ACCT6329	Intermediate Accounting I	4	ACCT-PJJ
7	FINC6193	Corporate Financial Management and Modelling	4	ACCT-PJJ
8	ACCT6331	Accounting Information System and Internal Control	4	ACCT-PJJ
9	ACCT6334	Intermediate Accounting II	4	ACCT-PJJ
10	ACCT6381	Advanced Accounting	4	ACCT-PJJ
11	MATH6077	Discrete Mathematics	4	CS-PJJ
12	MATH6156	Calculus and Linear Algebra	4	CS-PJJ
13	COMP6307	Human and Computer Interaction	4	CS-PJJ
14	COMP6742	Algorithm Design and Analysis	4	CS-PJJ
15	CPEN6214	Computer Networks	4	CS-PJJ
16	COMP6600	Operating System	4	CS-PJJ
17	COMP6275	Artificial Intelligence	4	CS-PJJ
18	COMP6740	Program Design Methods	4	CS-PJJ
19	COMP6276	Compilation Techniques	4	CS-PJJ
20	COMP6728	Research Methodology in Informatics	4	CS-PJJ
21	MGMT6072	Introduction to Management and Business	4	MN-PJJ
22	ACCT6363	Accounting for Business	4	MN-PJJ
23	MATH6102	Business Mathematics	4	MN-PJJ
24	COMM6525	Business Ethics & Communication	4	MN-PJJ
25	LAWS6183	Legal Aspect in Business	4	MN-PJJ
26	ISYS6599	Management Information Systems for Leader	4	MN-PJJ
27	RSCH6023	Research Methodology	4	MN-PJJ
28	MKTG6113	Marketing Management	4	MN-PJJ
29	FINC6046	Financial Management	4	MN-PJJ
30	BUSS6189	Business Sustainability	4	MN-PJJ
31	MATH6082	Calculus I	4	TD-PJJ

32	MATH6094	Calculus II	4	TD-PJJ
33	SCIE6057	Chemistry and Biology	4	TD-PJJ
34	STAT6174	Probability Theory and Applied Statistics	4	TD-PJJ
35	ISYE6187	Engineering Economy and System Analysis	4	TD-PJJ
36	ISYE6188	Human-Integrated Systems	3/1	TD-PJJ
37	ISYE6094	Quality Engineering	4	TD-PJJ
38	ISYE6190	Facility Planning and Safety Engineering	4	TD-PJJ
39	ELEC6021	Free Elective Course 1	4	PJJ
40	ELEC6022	Free Elective Course 2	4	PJJ
41	ELEC6023	Free Elective Course 3	4	PJJ
42	ELEC6024	Free Elective Course 4	4	PJJ
43	ELEC6025	Free Elective Course 5	4	PJJ

*Student will take five courses (20 SCU) from the list above.*

**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	ISYS6611	Information Systems Analysis and Design	C
4	ISYS6305	Enterprise Systems	C
5	ISYS6307	Data and Information Management	C
6	ISYS6310	Information Systems Project Management	C
7	ISYS6316	Enterprise Architecture	C
8	ISYS6320	Social Informatics	C