

## 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. Business/System Analyst
2. System/Software Developer
3. Data Engineer
4. IS/IT Consultants
5. Project Leader
6. Technopreneur

### 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

Group	Code	Course Name	SCU	Total
1	ISYS6299035	Information System Concept	4	16
	COMP6598035	Introduction to Programming	4	
	ACCT6174035	Introduction to Financial Accounting	4	
	ISYS6300035	Business Process Fundamental	4	
2	CHAR6019035	Character Building: Pancasila	2	14
	ISYS6597035	Introduction to Database Systems	4	
	ISYS6611035	Information Systems Analysis and Design	6	
	LANG6031035	Indonesian	2	
3	ISYS6601035	User Experience Research and Design	6	14
	ISYS6507035	Testing and System Implementation	4	

	ISYS6305035	Enterprise System	4	
4	CHAR6020035	Character Building: Kewarganegaraan	2	16
	ISYS6604035	Advanced Information System Analysis and Design	6	
	ISYS6307035	Data and Information Management	4	
	ENGL6163035	English Professional	4	
5	ISYS6310035	Information Systems Project Management	4	14
	ISYS6514035	Business Application Development	6	
	ISYS6515035	Research Methods in Information Systems	4	
6	CHAR6021035	Character Building: Agama	2	14
	ENTR6081035	Entrepreneurship	4	
	ISYS6318035	E-Business Concept	4	
	MGMT6072035	Introduction to Management and Business	4	
7	ISYS6316035	Enterprise Architecture	4	16
	ISYS6313035	Analytical Information System	4	
	ISYS6332035	Data Warehouse	4	
	ISYS6516035	Information System Security	4	
8	ISYS6317035	Business Process Management	4	16
	ISYS6320035	Social Informatics	4	
	ISYS6605035	Business Intelligence	4	
	ISYS6312035	IS Strategy, Management and Acquisition	4	
9	Enrichment Program*			20
10	ISYS6327035	Thesis		6
<b>Cumulative SCU</b>				<b>146</b>

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

### Enrichment Track Scheme

Track scheme for semester 9. Student will take one of enrichment program tracks.

Track	Semester 9			
	Minor	Free Electives	Internship	Entrepreneurship
1	v	-	-	-
2	-	v	-	-
3	-	-	v	-
4	-	-	-	v

### Enrichment Minor Track

Course Code	Course Name	SCU	Total
ACCT6384039	Accounting for Small Medium Enterprise	4	20
MKTG6296038	Digital Marketing for Manager	4	
ISYS6619035	UX for Digital Business	4	
COMP6725036	Big Data Technologies	4	
ISYE6196037	Industrial Feasibility Analysis	4	

Student will take all courses from the list above.

### Enrichment Free Electives Track

No.	Course Code	Course	SCU	Study Program
1	MGMT6072038	Introduction to Management and Business	4	MN-PJJ
2	ACCT6363039	Accounting for Business	4	MN-PJJ
3	MATH6102038	Business Mathematics	4	MN-PJJ
4	COMM6525038	Business Ethics & Communication	4	MN-PJJ
5	LAWS6183028	Legal Aspect in Business	4	MN-PJJ
6	ISYS6599035	Management Information Systems for Leader	4	MN-PJJ
7	RSCH6023038	Research Methodology	4	MN-PJJ
8	MKTG6113038	Marketing Management	4	MN-PJJ
9	FINC6046039	Financial Management	4	MN-PJJ
10	BUSS6189038	Business Sustainability	4	MN-PJJ
11	MATH6082016	Calculus I	4	TD-PJJ
12	MATH6094016	Calculus II	4	TD-PJJ
13	SCIE6057037	Chemistry and Biology	4	TD-PJJ
14	STAT6174037	Probability Theory and Applied Statistics	4	TD-PJJ
15	ISYE6187037	Engineering Economy and System Analysis	4	TD-PJJ
16	ISYE6188037	Human-Integrated Systems	3/1	TD-PJJ
17	ISYE6094037	Quality Engineering	4	TD-PJJ
18	ISYE6190037	Facility Planning and Safety Engineering	4	TD-PJJ
19	COMP6742036	Algorithm Design and Analysis	4	CS-PJJ

20	COMP6275036	Artificial Intelligence	4	CS-PJJ
21	COMP6804036	Software Engineering	4	CS-PJJ
22	COMP6276036	Compilation Techniques	4	CS-PJJ
23	COMP6600036	Operating System	4	CS-PJJ
24	MGMT6413038	Introduction to Business and Economics	4	ACCT-PJJ
25	ACCT6130039	Cost Accounting	4	ACCT-PJJ
26	ACCT6374039	Managerial Accounting & Strategic Planning	4	ACCT-PJJ
27	ACCT6194039	Ethics and Corporate Governance	4	ACCT-PJJ
28	ACCT6193039	Research Methodology in Accounting and Finance	4	ACCT-PJJ
29	ACCT6329039	Intermediate Accounting I	4	ACCT-PJJ
30	FINC6193039	Corporate Financial Management and Modelling	4	ACCT-PJJ
31	ACCT6331039	Accounting Information System and Internal Control	4	ACCT-PJJ
32	ACCT6334039	Intermediate Accounting II	4	ACCT-PJJ
33	ACCT6381039	Advanced Accounting	4	ACCT-PJJ
34	ELEC6046035	Free Elective Course 1: Business Analysis	4	PJJ
35	ELEC6047035	Free Elective Course 2: Problem Solving Skills	4	PJJ
36	ELEC6048035	Free Elective Course 3: Collaboration and Adaptation	4	PJJ
37	ELEC6049035	Free Elective Course 4: Creative and Critical Thinking	4	PJJ
38	ELEC6050035	Free Elective Course 5: IT Literacy	4	PJJ
39	ELEC6051035	Free Elective Course 6: Human Literacy	4	PJJ
40	ELEC6052035	Free Elective Course 7: Data Literacy	4	PJJ
41	ELEC6053035	Free Elective Course 8: Business Creative	4	PJJ

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

### Enrichment Internship Track

Course Code	Course Name	SCU	Total
ISYS6648035	Working Experience in Information Systems	6	20
ISYS6649035	Information Systems in Practice	4	
ISYS6651035	Industrial Experience in Information Systems	6	
ISYS6650035	Employability and Entrepreneurial Skills in Information Systems Industry	4	

### Enrichment Entrepreneurship Track

Course Code	Course Name	SCU	Total
ENPR6017035	Business Start Up in Information Systems	6	20
ENPR6018035	Business Model & Validation in Information Systems	4	
ENPR6019035	Launching New Venture in Information Systems	6	
ENPR6020035	Entrepreneurship and Managing New Business in Information Systems	4	

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

No	Course Code	Course Name	Minimal Grade
1	CHAR6019035	Character Building: Pancasila	B
2	ENTR6081035	Entrepreneurship	C
3	ISYS6611035	Information Systems Analysis and Design	C
4	ISYS6305035	Enterprise Systems	C
5	ISYS6307035	Data and Information Management	C
6	ISYS6310035	Information Systems Project Management	C
7	ISYS6316035	Enterprise Architecture	C
8	ISYS6320035	Social Informatics	C

