

## Information Systems & Management

### Introduction

The dual study program in Information Systems and Management which combines Information Systems and Management subjects aims to anticipate the knowledge-based economy in the future characterized by the use of IT application. Information Technology in the business world has shifted towards a more outward-looking characteristic and focused on the increased competition in the free market. Information technology and the business world are closely related considering that Information technology and Information Systems share the role of supporting the organizational activities. They do this by increasing the efficiency of the internal processes in a company and by strengthening the competitiveness of the company, as well as by contributing to the problem solving and decision-making by management.

### Vision

A world class study program that excels in providing high-level Information system education is specialized in business-IT, recognized internationally, and champions innovation.

### Mission

The mission of Double Degree are to:

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. Fostering the quality of life of Indonesians and the international community through leveraging Information system solutions.

### Program Objective

The objectives of the program are to:

1. Equip students with the expertise and solid basic knowledge about system development that will be needed as a professional in the field of information systems, as well as increasing the skills and knowledge of educators in the information systems field;
2. Preparing students with proficiency and in-depth knowledge of innovative information systems related to IT-Business Innovation;
3. Equip students with the ability to use knowledge of applied business applications for specific industrial purposes;
4. Equip the community with expertise and knowledge through the use of information system solutions;
5. Provide education to the public regarding the use and application of information systems.

## **Student Outcomes**

After completing the study, graduates are:

1. Able to comprehend business and management concept;
2. Able to work innovatively by applying their adept thinking, entrepreneurial, and ICT skill;
3. Able to perform global mindset in exercising business concept;
4. Able to apply ethical and professional values;
5. Able to analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions;
6. Able to design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline;
7. Able to communicate effectively in a variety of professional contexts;
8. Able to recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles;
9. Able to function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline;
10. Able to support the delivery, use and management of information systems within an information systems environment;
11. Able to integrate information systems/technology utilization in solving business problems;
12. Able to apply information system in business strategy;
13. Able to apply digital transformation in business;
14. Able to apply interdisciplinary knowledge and skills in developing alternative solutions for problem-solving.

## **Prospective Career of the Graduates**

Possible professions for graduates include Information System Corporate Planner, Business/Entrepreneur in Technology, and Digital Business. Additional professions include Information Systems department manager, Manager of Information Systems development project, System Designer, and IT/IS consultant.

## **Curriculum**

The dual study program for Information Systems and Management developed its curriculum based on the Vision and Mission of Bina Nusantara University. The curriculum has been influenced by the Association for Computing Machinery (ACM), Association for Information Systems (AIS), and the curriculum of foreign universities that have an international reputation in Management study programs and business (AACSB accreditation). The successful candidate will get a double degree, which is S.Kom. and S.E.

**Course Structure**

Sem	Code	Course Name	SCU	Total	
1	ISYS6093	Information System Concept*&**	4	20	
	ACCT6133	Introduction to Financial Accounting	4		
	ECON6099	Business Economics	4		
	MGMT6011	Introduction to Management and Business*	4		
	COMM8006	Business Communication**	2		
	<b>English University Courses I</b>				
	ENGL6128	English in Focus	2		
ENGL6130	English for Business Presentation	2			
2	CHAR6013	Character Building: <i>Pancasila</i>	2	20	
	BUSS6066	Business Ethics	2		
	ISYS6186	Business Process Fundamental*&**	4		
	ISYS6181	Management Information Systems for Leader	4		
	COMP6178	Introduction to Programming	2/2		
	LANG6027	Indonesian	2		
	<b>English University Courses II</b>				
	ENGL6129	English Savvy	2		
ENGL6131	English for Written Business Communication	2			
3	CHAR6014003	Character Building: <i>Kewarganegaraan</i>	2	24	
	MGMT6012003	Human Resources Management*	4		
	ISYS6126003	Enterprise System*&**	4		
	ISYS6197003	Business Application Development	2/2		
	ISYS6123003	Introduction to Database Systems*&**	2/2		
	MGMT6358003	Managing Business Information	2/2		
	ENTR6509001	Entrepreneurship: Ideation	2		
4	CHAR6015003	Character Building: <i>Agama</i>	2	24	
	ISYS6198003	Data and Information Management**	4		
	ISYS6596003	User Experience Research and Design**	4/2		
	MKTG8005003	Marketing Management*	4		
	BUSS6210003	Digital Business*	4/2		
	MATH6176003	Business Mathematics*	2		
5	ISYS6535003	Information Systems Analysis and Design**&***	4/2	22	
	STAT8067003	Business Statistics I	2		
	FINC6001003	Financial Management	4		
	MGMT6357003	Multinational Corporation Management	2		
	MGMT6297003	Operations Management**	4		
	RSCH6466003	Research Methodology**	4		
6	ISYS6338003	Testing and System Implementation*&**	2	24	
	ISYS6542003	Advanced Information System Analysis and Design**&***	4/2		
	BUSS6171003	Business Sustainability	4		
	ENTR6511001	Entrepreneurship: Market Validation	2		

Sem	Code	Course Name	SCU	Total
	STAT8068003	Business Statistics II	2/2	
	ISYS6256003	Information Systems Project Management*&***	4	
	LAWS6159003	Legal Aspect in Business	2	
7	ISYS6538003	Advanced in Business Application Development**	4/2	22
	MOBI6002003	Mobile Object Oriented Programming	2/2	
	BUSS6211003	Digital Transformation*	4	
	ISYS6571003	Data Visualization	2	
	BUSS6186003	Digital Market Research	2	
	<b>Free Electives</b>		4	
8	<b>Enrichment Program</b>		20	20
9	ISYS6637003	Pre-Thesis	2	6
	ISYS6638003	Thesis	4	
	MGMT6021003	Thesis	6	
<b>TOTAL CREDITS 182 Credits</b>				

\*) This course is delivered in English

\*\*) Global Learning System Course

\*\*\*) Entrepreneurship Embedded

-) For Free Electives, students are required to choose from the list of Free Electives in Appendix.

#### English University Courses:

-) For 1st Semester: English University Courses I, students with Binus University English Proficiency Test score less than 500 will take English in Focus, and student with test score greater than or equal to 500 will take English for Business Presentation.

-) For 2nd Semester: English University Courses II, students with Binus University English Proficiency Test score less than 500 will take English Savvy, and students with test score greater than or equal to 500 will take English for Written Business Communication.

-) Students should pass English Savvy with a minimum Grade is C.

**Pre-thesis (2 SCU) & Thesis (4 SCU)** can be taken in the 6<sup>th</sup> and/or 7<sup>th</sup> semester by the students who meet the requirements from the program.

#### Appendix: Free Electives (7<sup>th</sup> Semester)

No	Course Owner Department	Course Code	Course	SCU	Semester
1	Global Business Marketing	MKTG6237005	Global Strategic Marketing: Asia Pacific Perspective	4	7
2	Management	ISYS8175005	E-Business Strategy and Implementation	4	7
3	Management	MGMT6297005	Operations Management	4	7
4	Management	MGMT6341005	Strategic Management	4	7
5	Global Business Marketing	MKTG6272005	Marketing Research	2/2	7
6	Global Business Marketing	MKTG6294005	Branding & Omnichannel Retailing	4	7
7	Marketing Communication	COMM6514019	Editing for Creative Program	2/2	7
8	Marketing Communication	COMM6523019	Corporate Event Management	2/2	7
9	Marketing Communication	COMM6541019	Digital Corporate Communication	2/2	7
10	Marketing Communication	COMM6542019	Event Management for Brand	2/2	7

No	Course Owner Department	Course Code	Course	SCU	Semester
11	Marketing Communication	COMM6543019	Digital Brand Communicaton	2/2	7
12	Tourism	TRSM6141022	Tourism Destination and Planning Management	4	7
13	Tourism	TRSM6208022	Tourism Innovation and Product Development	4	7
14	Computer Engineering	CPEN6098010	Computer Networks	2/2	7
15	Computer Engineering	CPEN6126010	Cross Platform Application Development	4	7
16	Computer Science	COMP6590001	Geographical Information System	2/2	7
17	Computer Science	ISYS6197001	Business Application Development	2/2	7
18	Creative Advertising	DSGN6661007	Photography	4	7
19	Creative Advertising	DSGN6732007	Photography	4	7
20	Creative Advertising	DSGN6651007	Photography	4	7
21	Film	FILM6059009	Global Cinema	4	7
22	Business Information Technology	ISYS6579003	Knowledge-Based AI: Cognitive Systems	4	7
23	Information Systems	ISYS6199003	Data & Text Mining	4	7
24	Information Systems	ISYS6202003	Social Informatics	4	7
25	Information Systems	ISYS6289003	Collaborative Computing	4	7
26	Information Systems	ISYS6402003	Business Analytics	2/2	7
27	Information Systems	ISYS8066003	Business Process Management	4	7
28	Information Systems	RSCH6466003	Research Methodology	4	7
29	Information Systems Accounting & Auditing	ISYS6050003	Information System Audit Fundamental	4	7
30	Japanese Literature	JAPN6145025	Japanese Grammar I (Bunpou I)	4	7
31	Japanese Literature	JAPN6111025	Introductory Japanese I	4	7
32	Chinese Literature	CHIN6157026	Chinese Business for Etiquette (Beginner)	4	7
33	Chinese Literature	CHIN6158026	Chinese Business in Daily Communication	4	7
34	English Literature	ENGL6244024	Social Media Broadcasting	4	7
35	Psychology	PSYC6127027	Indigenous Psychology	4	7

**Enrichment Program (8<sup>th</sup> Semester):**

-) Student will take one of enrichment program tracks (off campus). See enrichment appendix for the tracks detail.

**Enrichment Track Scheme**

Track	Semester 8						
	IN	RS	EN	CD	SA	IS	etc
1	v						
2		v					
3			v				
4				v			
5					v		
6						v	
7							v

**Note:**

IN	: Certified Internship	SA	: Certified Study Abroad
RS	: Certified Research	IS	: Certified Specific Independent Study
EN	: Certified Entrepreneurship	etc	: Study Program Special Purposes
CD	: Certified Community Development		

**Description:**

Student will take one of enrichment program tracks

Students who failed in Enrichment Program I can retake with the same track or change into another track. As for Enrichment Program II, student who failed with Certified Internship, Certified Research, Certified Community Development, and Certified Study Abroad track on Enrichment Program II, can retake with the same track or change into another track. However students who take **Certified Entrepreneurship** track on Enrichment Program II, should **retake with another track**.

**Certified Internship Track**

Code	Course Name	SCU	Total
BUSS6044003	Internship	8	20
BUSS6207003	Technopreneurship Application	8	
BUSS6187003	Technopreneurship Paper	4	

**Certified Entrepreneurship Track**

Code	Course Name	SCU	Total
ENTR6955003	New Venture Initiation in Information Systems	8	20
ENTR6596003	Product Development Process for Information Technology Business	8	
ENTR6953003	EES in New Information Systems Business	4	

**Certified Research Track**

Code	Course Name	SCU	Total
RSCH6204003	Research Experience	8	20
RSCH6575003	Scientific Writing in Information Systems Research	8	
RSCH6467003	Information Systems for Global Employability and Entrepreneurial Skills	4	

### Certified Community Development Track

Code	Course Name	SCU	Total
CMDV6118003	Community Outreach Project Implementation	8	20
CMDV6349003	Community Outreach Project Design in Information Systems	8	
CMDV6263003	Employability and Entrepreneurial Skills in Information Systems	4	

### Certified Study Abroad Track

Code	Course Name	SCU	Total
<b>Elective courses list for study abroad*</b>			20
GLOB6005003	Elective Course for Study Abroad 1	4	
GLOB6006003	Elective Course for Study Abroad 2	4	
GLOB6007003	Elective Course for Study Abroad 3	4	
GLOB6008003	Elective Course for Study Abroad 4	4	
GLOB6009003	Elective Course for Study Abroad 5	2	
GLOB6010003	Elective Course for Study Abroad 6	2	
GLOB6011003	Elective Course for Study Abroad 7	2	
GLOB6012003	Elective Course for Study Abroad 8	2	
GLOB6013003	Elective Course for Study Abroad 9	2	
GLOB6014003	Elective Course for Study Abroad 10	2	
GLOB6015003	Elective Course for Study Abroad 11	2	
GLOB6016003	Elective Course for Study Abroad 12	2	
GLOB6251003	Elective Course for Study Abroad 29	4	

\*) Transferred courses will be transferred based on credit transfer policies on study program with total of 20 credits.

### Certified Specific Independent Study

Code	Course Name	SCU	Total
<b>Elective courses list for certified specific independent study*</b>			20
MICR6033003	Course Certification I	3	
MICR6034003	Technical Skill Enrichment I	4	
MICR6035003	Industrial Project I	9	
MICR6036003	Soft Skill Enrichment I	4	
MICR6001003	Elective Course for Micro Credential Course 1	8	
MICR6002003	Elective Course for Micro Credential Course 2	8	
MICR6003003	Elective Course for Micro Credential Course 3	6	
MICR6004003	Elective Course for Micro Credential Course 4	6	
MICR6005003	Elective Course for Micro Credential Course 5	6	
MICR6006003	Elective Course for Micro Credential Course 6	5	
MICR6007003	Elective Course for Micro Credential Course 7	5	
MICR6008003	Elective Course for Micro Credential Course 8	5	
MICR6009003	Elective Course for Micro Credential Course 9	5	
MICR6010003	Elective Course for Micro Credential Course 10	4	
MICR6011003	Elective Course for Micro Credential Course 11	4	

Code	Course Name	SCU	Total
MICR6012003	Elective Course for Micro Credential Course 12	4	
MICR6013003	Elective Course for Micro Credential Course 13	4	
MICR6014003	Elective Course for Micro Credential Course 14	4	
MICR6015003	Elective Course for Micro Credential Course 15	3	
MICR6016003	Elective Course for Micro Credential Course 16	3	
MICR6017003	Elective Course for Micro Credential Course 17	3	
MICR6018003	Elective Course for Micro Credential Course 18	3	
MICR6019003	Elective Course for Micro Credential Course 19	3	
MICR6020003	Elective Course for Micro Credential Course 20	3	
MICR6021003	Elective Course for Micro Credential Course 21	2	
MICR6022003	Elective Course for Micro Credential Course 22	2	
MICR6023003	Elective Course for Micro Credential Course 23	2	
MICR6024003	Elective Course for Micro Credential Course 24	2	
MICR6025003	Elective Course for Micro Credential Course 25	2	
MICR6026003	Elective Course for Micro Credential Course 26	2	
MICR6027003	Elective Course for Micro Credential Course 27	2	
MICR6028003	Elective Course for Micro Credential Course 28	2	
MICR6029003	Elective Course for Micro Credential Course 29	1	
MICR6030003	Elective Course for Micro Credential Course 30	1	
MICR6031003	Elective Course for Micro Credential Course 31	1	
MICR6032003	Elective Course for Micro Credential Course 32	1	

\*) For students who take BINUS certified specific independent study courses, they should take the first 4 courses on the list above (20 credits). Meanwhile, electives courses 1 to 32 are transferred courses for students who take certified specific independent study outside BINUS University. Transferred courses will be transferred based on credit transfer policies on study program with total of 20 credits.

### The Table of Prerequisite for Information Systems and Management (S1)

Course	SCU	Sem.	Prerequisite Course	SCU	Sem.
FINC6001003 Financial Management	4	5	MGMT6011 Introduction to Management and Business	4	1

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

No	Course Code	Course Name	Minimal Grade
1.	CHAR6013	Character Building: <i>Pancasila</i>	B
2.	ENTR6511001	Entrepreneurship: Market Validation	C
3.	MGMT6358003	Managing Business Information	C
4.	MGMT6011	Introduction to Management and Business	C
5.	MKTG8005003	Marketing Management	C
6.	MGMT6012003	Human Resources Management*	C
7.	BUSS6066003	Business Ethics	C
8.	MGMT6357003	Multinational Corporation Management	C
9.	BUSS6210003	Digital Business*	C
10	ISYS6126003	Enterprise System	C



No	Course Code	Course Name	Minimal Grade
11.	ISYS6198003	Data and Information Management*	C
12.	ISYS6535003	Information Systems Analysis and Design*	C
13.	ISYS6571003	Data Visualization*	C
14.	ISYS6256003	Information Systems Project Management	C

\*) Tutorial & Multipaper