

## Information Systems

### Introduction

The need for Information Technology (IT) in the business industry has shifted into an environment that is more outward looking to compete in the free market. Information Technology is closely related to Information Systems (IS) in their joint support of the organization. They facilitate excellent procedures for the whole organization and strengthen its competitiveness.

As a discipline, Information systems have been making positive contributions to a wide range of organizations, especially in this era of digital transformation where information can be accessed and distributed easily. Information systems help the organization in managing data as an asset, either collected or presented by information systems, which are possible to be implemented for problem-solving and management decisions making.

The Information Systems Study Program was founded in response to the progressive demand for skilled human resources in the field of information systems. The scope of study in the Program includes information systems development (information systems analysis, design and implementation (programming)), management information systems, business process analysis and design, enterprise systems, database analysis and design, and information system project 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 missions of Information Systems are:

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 analyze a complex computing problem and apply principles of computing and other relevant disciplines to identify solutions;
2. 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;
3. Able to communicate effectively in a variety of professional contexts;
4. Able to recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles;
5. Able to function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline;
6. Able to support the delivery, use, and management of information systems within an information systems environment.

### **Prospective Career of the Graduates**

Graduates will have the necessary skills to work as:

1. System Analyst
2. Business Analyst
3. Business Process Analyst
4. Digital Business Specialist
5. Enterprise Resource Planning (ERP) Specialist
6. Software Architect
7. Information Security Analyst
8. System Designer
9. Database Administrator
10. Database Analyst
11. Data Scientist
12. User Experience Designer
13. IT/IS Consultant
14. Application Developer
15. Web-Developer/Web-Designer
16. IT Development Project Leader
17. Software Quality Assurance Specialists
18. IT User Liaison
19. IT/IS Researcher
20. Technopreneur

## Curriculum

The Information Systems Study Program curriculum is designed by referring to the curriculum recommended by Association for Computing Machinery (ACM) and Association for Information Systems (AIS) for model curriculum and guidelines for an undergraduate degree program in Information Systems. In addition, the curriculum has been influenced by foreign universities with the reputation of qualified Information Systems Study Programs.

The curriculum for the next four years, will prominently consists of:

1. Information Systems Concept, Information Technology Infrastructure, Business Process, Supply Chain Management, and Enterprise Systems.
2. Database, Information and Knowledge Management.
3. User Experience, Information Systems Analysis and Design.
4. Programming, Information Systems Project Management, Testing and Implementation.
5. Financial Accounting, Information System Research Methodology, and Entrepreneurship.
6. Character Building and Language (Indonesian and English).
7. Concentration Subjects: Strategic Information Systems, Business Intelligence, Digital Technology, Applied Database, Applied Cloud Computing, and Applied Enterprise Resource Planning (ERP).
8. Minor Program
9. Free Electives
10. Enrichment Program
11. Thesis

## Course Structure

Sem	Code	Course Name	SCU	Total
1	CHAR6013003	Character Building: Pancasila	2	20
	ACCT6425003	Introduction to Financial Accounting	2	
	ISYS6186003	Business Process Fundamental** (AOL)	4	
	ISYS6093003	Information System Concept*&**	4	
	COMP6178003	Introduction to Programming	2/2	
	ISYS6675003	Information Technology Infrastructure	2	
	LANG6027003	Indonesian	2	
	<b>Foreign Language Courses</b>			
2	CHAR6014003	Character Building: Kewarganegaraan	2	20
	ISYS6123003	Introduction to Database Systems*&** (AOL)	2/2	
	ISYS6126003	Enterprise System*&** (AOL)	4	
	ISYS6338003	Testing and System Implementation*&** (AOL)	2	
	ENTR6509001	Entrepreneurship: Ideation	2	
	ISYS6596003	User Experience Research and Design** (AOL)	4/2	
	<b>Foreign Language Courses</b>			
3	CHAR6015003	Character Building: Agama	2	21
	ISYS6677003	Information Systems Analysis and Design**&*** (AOL)	5/2	
	ISYS6197003	Business Application Development	2/2	
	ISYS6256003	Information Systems Project Management*&**	4	

Sem	Code	Course Name	SCU	Total	
	ISYS6198003	Data and Information Management**	4		
	<b>Foreign Language Courses</b>		0		
4	ISYS6676003	Advanced Information System Analysis and Design**&***	5/2	19	
	ISYS6674003	Knowledge Management**	2		
	ISYS6478003	Research Methods in Information Systems	2		
	<b>Stream : Business Intelligence</b>				
	ISYS6613003	Business Intelligence**	2		
	ISYS6210003	Data Visualization*	2		
	ISYS6190003	Advance in Data & Information Management	4		
	<b>Stream : Strategic Information System</b>				
	ISYS6146003	Information System Security*	2		
	ISYS6614003	IS Strategy, Management and Acquisition**	2		
	ISYS6284003	Analytical Information System	4		
	<b>Stream : Digital Technology</b>				
	ISYS6211003	Web Based Application Development	2/2		
	ISYS6285003	Digital and New Media*&***	2		
	ISYS6615003	e-Business Design	2		
	<b>Stream : Applied ERP</b>				
	ISYS6146003	Information System Security*	2		
	ISYS6442003	Applied ERP: Fundamental	4		
	ISYS6614003	IS Strategy, Management and Acquisition**	2		
	<b>Stream : Applied Database</b>				
	ISYS6613003	Business Intelligence**	2		
	ISYS6210003	Data Visualization*	2		
	ISYS6567003	Applied Database: Database Programming With SQL and PL/SQL	4		
	<b>Stream: Applied Cloud Computing</b>				
	ISYS6734003	Cloud Computing Foundation*	4		
	ISYS6735003	Enterprise Cloud Security and Governance**	4		
	<b>Stream : Marketing Intelligence<sup>1</sup></b>				
	ISYS6755052	Marketing Intelligence	4		
	ISYS6756052	Social Media Marketing & Analytics	4		
	<b>Minor Program</b>				8
	<b>Free Electives</b>				8
	<b>Foreign Language Courses</b>				0
5	ENPR6312001	Venture Creation	2	20	
	ISYS6538003	Advanced in Business Application Development*** (AOL)	4/2		
	<b>Stream : Business Intelligence</b>				
	ISYS6200003	Data Warehouse**	4/2		
	ISYS6199003	Data & Text Mining	4		
	ISYS6196003	Business Analytics*	2		

Sem	Code	Course Name	SCU	Total
	<b>Stream : Strategic Information System</b>			
	ISYS6205003	Enterprise Architecture**	4	
	ISYS8066003	Business Process Management	4	
	ISYS6202003	Social Informatics*	4	
	<b>Stream : Digital Technology</b>			
	ISYS6187003	Business Web Solution**	4	
	ISYS6289003	Collaborative Computing*	4	
	ISYS6203003	Mobile Applications Development	2/2	
	<b>Stream : Applied ERP</b>			
	ISYS6205003	Enterprise Architecture**	4	
	ISYS6696003	Applied ERP: Integrated Business Process*	8	
	<b>Stream : Applied Database</b>			
	ISYS6201003	Data Warehouse and Data Mining**	4	
	ISYS6568003	Applied Database: Administration and Recovery	4	
	ISYS6569003	Applied Database: Application Development*	4	
	<b>Stream: Applied Cloud Computing</b>			
	ISYS6736003	Cloud Architecting*	4	
	ISYS6737003	Cloud Data Analytics**	4	
	ISYS6738003	Cloud Machine Learning	4	
	<b>Stream: Marketing Intelligence<sup>1)</sup></b>			
	ISYS6713052	Managing Content Marketing System	4	
	ISYS6714052	Marketing Automation System	4	
	ISYS6715052	Search Engine Optimization	4	
	<b>Minor Program</b>		12	
	<b>Free Electives</b>		12	
6	<b>Enrichment Program I</b>		20	20
7	<b>Enrichment Program II</b>		20	20
8	ISYS6616003	Pre-Thesis	2	6
	ISYS6617003	Thesis	4	
	ISYS6117003	Thesis	6	
<b>TOTAL CREDITS 146 Credits</b>				

\*) This course is delivered in English

\*\*) Global Learning System Course

\*\*\*) Entrepreneurship Embedded

1) Conducted for student mobility program in BINUS @Semarang

Students are required to choose one of the Stream or Minor Program or Free Electives or Mobility.

-) (AOL) - Assurance of Learning Process System

**Stream:**

- **Applied ERP:** Graduated with minimum grade B in the following subject ISYS6186003 Business Process Fundamental, TOEFL  $\geq 500$  and CGPA of 2 semesters  $\geq 3.00$ .
- **Applied Database:** Graduated with minimum grade B in the following subject COMP6178003 Introduction to Programming, TOEFL  $\geq 500$  and CGPA of 2 semesters  $\geq 3.00$ .

**Streaming/Minor/Free Electives:**

- ) For 4<sup>th</sup> Semester: Students are required to choose Streaming or Minor Program or Free Electives. For Free Electives, students are required to choose from the list of Free Electives in Appendix.
- ) For 5<sup>th</sup> Semester: Students are required to choose Streaming or Minor Program or Free Electives same with previous semester. For Free Electives, students are required to choose from the list of Free Electives in Appendix.

**Foreign Language Courses:**

Students will take foreign language courses according to BINUS University English proficiency test results. See foreign language courses appendix for the details. Students must pass with a minimum Grade of 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 Study Program/Program.

**Appendix Foreign Language Courses**

Foreign language courses are personalized courses that can be taken by the students according to their own pace from semester 1 until semester 4 or before they take enrichment. The courses are available at BINUSMAYA – Beelingua. Students must pass with a minimum Grade of C.

The following are the provisions of the courses that must be taken by students:

Foreign Language Courses		SCU
ENGL6253003	English for Frontrunners	0
ENGL6254003	English for Independent Users	0
ENGL6255003	English for Professionals	0
JAPN6190003	Basic Japanese Language*	0
CHIN6163003	Basic Chinese Language*	0

\*) This course is optional for students

1. Students with Beelingua Placement Test score less than 60 are required to take English for Frontrunners and English for Independent Users.
2. Students with Beelingua Placement Test score between 61-99 are required to take English for Independent Users and English for Professionals.
3. Students with Beelingua Placement Test score greater than 99 are required to take English for Professionals. Additionally, students may choose to take either Basic Japanese Language or Basic Chinese Language.
4. Students are required to pass the foreign language courses before they take enrichment.
5. Students can see the requirements to pass the foreign language courses at BINUSMAYA – Beelingua.

**Minor Scheme**

Minor Program	Semester 4	Semester 5
<b>Minor @ Binus Kemanggisian</b>		
Blockchain Technology and Business	V	V
Creative Digital Storytelling	V	V
Cross Cultural Communication	V	V
Data Analytics	V	V
Digital Banking	V	V
Digital Ecosystem	V	V
English for Business Professionals	V	V
Event Business and Entertainment	V	V
Human Capital in Digital Workplace	V	V
Interactive & Users Experience Design	V	V

Minor Program	Semester 4	Semester 5
Robotic Process Automation	V	V
Sustainable Development	V	V
<b>Minor @ Binus Alam Sutera</b>		
Digital Transformation	V	V
<b>Minor @ Binus Bekasi</b>		
Culinary	V	V
Korean Culture and Creativity	V	V
<b>Minor @ Binus Malang</b>		
Chinese for Career Pathways	-	-
English for Business Professionals	V	V
Digital Technopreneur	V	V
<b>Minor @ Binus Bandung</b>		
DesignPreneur	V	V
<b>Minor @ Binus Semarang</b>		
Content Creation	V	V
Immersive Journey to Japanese Language and Culture	-	-
Metaverse in Business	V	V

*The minor programs can change anytime based on the trends of knowledge and industry each year. Students will receive information about the updated minor programs during the registration period.*

## 1. Minor Program: Blockchain Technology and Business

### Introduction

Blockchain is currently one of the fastest-growing industries in the technology sector. Also, based on Gemini's 2022 outlook, Indonesia is the most crypto-adopting country in Asia. The blockchain minor program initiative at BINUS could facilitate the students to learn and explore the technology. The Blockchain minor program explores the concept and development of blockchain from the technology and business perspectives. Beyond the blockchain concept, students will learn how to develop smart contracts and understand the architectural needs of a blockchain-based application. Finally, students will apply their knowledge in a project-oriented capstone course, during which they will design and develop a practical application of blockchain technology.

### Career Options

Blockchain Consultant, Blockchain Architect, Blockchain Security Auditor, Token Economy Consultant, Smart Contract Developer, Web3 Entrepreneur.

### Course Distribution

#### Fundamental Courses

Course	SCU
ISYS6826003 Introduction to Blockchain Technology	4
ISYS6827003 Blockchain Economy & Business	4
DTSC6016001 Basic Blockchain Programming	2
<b>Total SCU</b>	<b>10</b>

**Supporting Courses**

Course		SCU
ISYS6828003	Blockchain Architecture Design and Implementation	4
DTSC6017001	Advanced Blockchain Programming	2
DTSC6018001	Prototyping Blockchain Project	4
<b>Total SCU</b>		<b>10</b>

**Additional Information**

None

**2. Minor Program: Creative Digital Storytelling**
**Introduction**

Digital storytelling, by definition, is the process of telling a story using video, images, audio, music, geospatial applications, and any other digital media. Thus, this minor introduces the concept and skills in producing and communicating videos, images, and texts through English. It is interdisciplinary in its nature and relies heavily on critical and analytical thinking. It also aims to familiarize students with the technology/ tools needed to adapt a literary work to another form or vice versa. It is the minor that blend perspectives of arts with humanities to facilitate new interpretation of literary works.

**Career Options**

Social Media Content Creator; Digital Storyteller; Brand Designer; Digital Storytelling News Editor; Social Media Specialist; Digital Associate; Video Editor; Content Creator; Content Creator; Scriptwriter; Fiction writers; Non-Fiction Writers; Copywriter; Social Media Specialist.

**Course Distribution**
**Fundamental Courses**

Course		SCU
ENGL6274024	Approaches in Multimodal Storytelling	2
DSIN6033007	Visual Storytelling	2
ENGL6275024	Storytelling for Business	2
FILM6118009	Script Development & Pitching	4
<b>Total SCU</b>		<b>10</b>

**Supporting Courses**

Course		SCU
ENGL6276024	Cultures, Language, and Arts Production	4
JAPN6212025	Anime and Manga as Storytelling	2
ENGL6277024	Music as Medium for Storytelling	4
<b>Total SCU</b>		<b>10</b>

**Additional Information**

None

### 3. Minor Program: Cross Cultural Communication

#### Introduction

This minor program equips students with the ability to communicate using languages and understanding cultures of foreign parties. In addition, this minor program enables students to apply intercultural awareness through both Indonesian and foreign languages and cultures.

#### Career Options

Language specialist, language localization specialist, translator, interpreter, mobility consultant/staff.

#### Course Distribution

##### Fundamental Courses

Course	SCU
CHIN6132026 Chinese Conversation in Daily Activities	4
COMM6502019 Communication in Diversity	2
BUSS6170025 Asian Business Ethics	4
<b>Total SCU</b>	<b>10</b>

##### Supporting Courses

Course	SCU
CHIN6134026 Chinese Conversation in Business Communication	4
LAWS6198028 Artificial Intelligence in Legal Discourse	2
INTR6135029 Comparative Politics	4
<b>Total SCU</b>	<b>10</b>

#### Additional Information

None

### 4. Minor Program: Data Analytics

#### Introduction

The Data Analytics minor program provides insight into acquisitions and analysis of data in organizations by using critical thinking from multiple strategic perspectives, including consumer behavior communicated in the form of visualizations/models that can support retrieval decision.

#### Career Options

Data Analyst, Marketing Analyst.

## Course Distribution

### Fundamental Courses

Course	SCU
ISYS6680003 Introduction to Data Analytics	2
ISYS6681003 Data Management & Descriptive Analytics	4
STAT6198049 Statistical for Decision Making	4
<b>Total SCU</b>	<b>10</b>

### Supporting Courses

Course	SCU
ISYS6682003 Application of Predictive Analytics to Business Data	4
ISYS6683003 Prescriptive Analytics and Optimization	4
MKTG6312005 Digitalization of Markets and Consumption	2
<b>Total SCU</b>	<b>10</b>

## Additional Information

None

## 5. Minor Program: Digital Banking

### Introduction

A set of elective courses students can take from selected study programs at Binus University. This set aims to:

1. Comprehensive understanding of various concepts and practices in digital banking.
2. Critically Evaluate the implementation of digital banking for business optimization.
3. Apply relevant techniques of digital banking for business.
4. Develop solutions for various problems in digital banking.

### Career Options

This minor would substantially contribute to the banking profession in Indonesia and its ecosystem (regulators, IT-Business Consultant, Financial Analysts, and other Finance Professions).

## Course Distribution

### Fundamental Courses

Course	SCU
ISYS6824003 Technology Innovation in Banking	2
FINC6217020 Bank Risk Management in the Digital Era	4
FINC6218020 Digital Finance and The Role of Central Bank	4
<b>Total SCU</b>	<b>10</b>

**Supporting Courses**

Course		SCU
MGMT6510005	Business Process Management in Banking and Finance	4
ISYS6825003	Data Analytics in Banking and Finance	4
MGMT6511005	Digital Leadership	2
<b>Total SCU</b>		<b>10</b>

**Additional Information**

None

**6. Minor Program: Digital Ecosystem**
**Introduction**

To face challenges in the era of technological disruption and the wave of the 4.0 industrial revolutions, this minor program offers foundational knowledge about the digital ecosystem in the 4.0 industrial revolutions. Through this minor program, students will be able to develop fundamental knowledge about main pillars of the digital ecosystem, such as informatics, business, and creative design. Students will also be able to combine the knowledge they gain from their respective majors with information technology to develop real solutions for society.

**Career Options**

Chief technology officer, digital business strategy expert/consultant, digital solution architect, digital business strategy manager, digital operations manager.

**Course Distribution**
**Fundamental Courses**

Course		SCU
COMP6683001	Introduction to Artificial Intelligence	2/2
ISYS6549003	Digital Innovation	4
COMP6937001	Current Trends in Technology	2
<b>Total SCU</b>		<b>10</b>

**Supporting Courses**

Course		SCU
COMM6501019	Narative Development	4
DSGN6834007	Visual Identity	4
COMP6685001	Cyber Security for Business	2
<b>Total SCU</b>		<b>10</b>

**Additional Information**

None

## 7. Minor Program: English for Business Professionals

### Introduction

This minor focuses on students who are interested in English in the business context. Students will learn about leadership and management, as well as language innovations in marketing and advertising. There will also be discussions on business communication issues.

### Career Options

Manager, Business practitioner, Entrepreneur, Professional employee.

### Course Distribution

#### Fundamental Courses

Course	SCU
ENGL6154024 English for Business Communications	4
MKTG6112024 Language Innovations in Marketing and Advertising	2
ENGL6244024 Social Media Broadcasting	4
<b>Total SCU</b>	<b>10</b>

#### Supporting Courses

Course	SCU
ENGL6258024 English for Global Leadership	2
ENGL6169024 English for Professionals	2
COMM6506024 Current Issues in Business Communications	2
ENGL6245024 Business Rhetoric	4
<b>Total SCU</b>	<b>10</b>

### Additional Information

None

## 8. Minor Program: Event Business and Entertainment

### Introduction

This minor program provides practical and managerial skills, as well as knowledge of business in MICE (Meeting, Incentive, Convention, Exhibition) event, sport event, and festival, enabling students to plan and conduct a successful event.

### Career Options

Professional event organizer, Professional Conference Organizer, Even Coordinator, Convention Services Supervisor, Venue Supervisor, Entertainment Supervisor, Event Promotor, Events Planner, Sporting Event Organizer, Catering Coordinator.

## Course Distribution

### Fundamental Courses

Course		SCU
HTMN6151021	Event Marketing Management	2
HTMN6152021	Catering Management	4
TRSM6232022	MICE (Meeting, Incentive, Convention, Exhibition) Management	4
<b>Total SCU</b>		<b>10</b>

### Supporting Courses

Course		SCU
TRSM6233022	Event Sponsorship and Funding	2
TRSM6234022	Sport and Entertainment Event Management	4
TRSM6235022	Festival & Cultural Event	4
<b>Total SCU</b>		<b>10</b>

## Additional Information

None

## 9. Minor Program: Human Capital in Digital Workplace

### Introduction

HCDW focuses on the human aspect of improving performance and developing human resources in the Industrial 4.0 era, which utilizes a significant number of digital and mobile workspaces.

### Career Options

Human resource consultant, human resource manager, HR application developer (HRIS developer), HR development consultant.

## Course Distribution

### Fundamental Courses

Course		SCU
PSYC6174027	Psychology in The Workplace	4
MGMT6349005	Digital Workplace Strategy	4
ISYS6551003	Digital Workplace and Technology	4
LAWS6157028	Legal Aspects in Digital Workplace	4
PSYC6175027	Human Resources Development	4
<b>Total SCU</b>		<b>20</b>

## Additional Information

None

## 10. Minor Program: Interactive & Users Experience Design

### Introduction

In today's digital era, people are competing to produce the best digital products that suit the users' needs. How can we make this happen? Minor Interactive & User Experience (UX) Design is the answer. In this Minor program, students will learn about the basics of UX starting from finding, designing, and building a digital product that is in accordance with a good UX concept to ensure that the digital products produced have adopted the UX theory. In this minor program, students will study UX from 3 (three) main pillars of UX, namely Information Systems, Psychology, and Design through 6 (six) subjects that can be selected.

### Career Options

UX Researcher, UX Designer, Usability Analyst, Information Architect, Interaction Designer, Visual Designer, Content Strategies

### Course Distribution

#### Fundamental Courses

Course	SCU
ISYS6553003 User-Centered Research and Evaluation	4
PSYC6176027 Psychology and User Experience	4
DSIN6003007 Fundamental of Interface Design	2
<b>Total SCU</b>	<b>10</b>

#### Supporting Courses

Course	SCU
ISYS6554003 Core Principles: Interactive Design	4
DSGN6837007 Digital Design Production	4
ISYS6556003 Information Architecture	2
<b>Total SCU</b>	<b>10</b>

### Additional Information

None

## 11. Minor Program: Robotic Process Automation

### Introduction

The Robotic Process Automation minor program provides an understanding of the concept of Robotic Process Automation (RPA) in automating repetitive processes, as well as providing an understanding of how the RPA development process involving the concept of Artificial Intelligence.

### Career Options

RPA Developer, RPA Architect, RPA Business Analyst, System Analyst, Corporate Information Systems Designer, Technopreneur, IS Project Manager, IT/IS Consultant.

## Course Distribution

### Fundamental Courses

Course	SCU
COMP6857001 Basic Programming for Automation	2
COMP6858001 RPA Concept & Design	2
ISYS6684003 RPA Developer Fundamental	4
ISYS6687003 Business Process Improvement	2
<b>Total SCU</b>	<b>10</b>

### Supporting Courses

Course	SCU
ISYS6685003 RPA Developer Advance	4
ISYS6686003 RPA Business Analytics Fundamental	4
COMP6859001 Intelligence Automation	2
<b>Total SCU</b>	<b>10</b>

### Additional Information

None

## 12. Minor Program: Sustainable Development

### Introduction

The minor program on the topic of Sustainable Development prepares students from other disciplines for careers in engineering-related fields. Students will receive enrichment in the fields of Architecture, Industrial Engineering, Civil Engineering, Computer Engineering, and Food Technology. Students also gain knowledge of the development and application of the latest technology in the engineering field, which supports sustainable development and the industrial revolution 4.0.

### Career Options

Construction Manager; Property Manager; Building Manager; Civil Engineer; Project Manager; Pre Sales and Marketing Engineer, Product Specialist, Product Development, Business Development.

## Course Distribution

### Fundamental Courses

Course	SCU
ISYE6154011 Sustainable Design and Manufacture	4
CPEN6217010 Digital for Sustainable Development	4
ARCH6119014 Introduction to Sustainable Development	2
<b>Total SCU</b>	<b>10</b>

**Supporting Courses**

Course		SCU
ISYE6155011	Occupational, Health, Safety, and Administration in Engineering	2
DSGN6835008	Engineering Material	4
CIVL6118013	Engineering Economic	4
<b>Total SCU</b>		<b>10</b>

**Additional Information**

None

**13. Minor Program: Digital Transformation**
**Introduction**

Digital Transformation provides knowledge on how information technology can be a competitive advantage in business processes. In this minor program, students will learn about innovation in business processes, data management, and strategies that can support companies to become leaders in the digital era.

**Career Options**

Business Analyst, System Analyst, Corporate Information Systems Designer, Database Administrator, Database Designer, Technopreneur, IS Project Manager, IT/IS Consultant and Auditor, Social Media professional, and Marketing Analyst.

**Course Distribution**
**Fundamental Courses**

Course		SCU
ISYS6559003	Business Models and Technology Innovation	4
ISYS6557003	Business Data Management	4
MGMT6484005	Digital Strategy	2
<b>Total SCU</b>		<b>10</b>

**Supporting Courses**

Course		SCU
ISYS6695003	Digital Marketing Analysis	4
STAT6200049	Practical Statistics for Digital Business	4
ISYS6560003	Success Factor for Leading Digital Transformation	2
<b>Total SCU</b>		<b>10</b>

**Additional Information**

None

## 14. Minor Program: Culinary

### Introduction

The Culinary Minor Program provides learning that focuses on Culinary, Pastry & Bakery field. The curriculum design is more of practicums, which aim to make students have the competencies required in the fields of Food Production, Pastry & Bakery and Authentic Indonesian Cuisine.

### Career Options

Entrepreneur in the field of Culinary (Resto, Café, Catering Business), Chef, Restaurant Owner/Manager.

### Course Distribution

#### Fundamental Courses

Course	SCU
HTMN6108021 Food and Beverage Management	2
HTMN6008021 Kitchen Operation	4
HTMN6128021 Pastry and Bakery Operation	4
<b>Total SCU</b>	<b>10</b>

*SCU for HTMN6008021, HTMN6128021 are practical*

#### Supporting Courses

Course	SCU
HTMN6155021 Indonesian Cuisine	4
HTMN6125021 Restaurant Operation	4
HTMN6154021 Culinary Tourism	2
<b>Total SCU</b>	<b>10</b>

*SCU for HTMN6155021, HTMN6125021 are practical*

### Additional Information

None

## 15. Minor Program: Korean Culture and Creativity

### Introduction

This minor program provides knowledge and experience in Korean Performance and Culture. The courses will cover pop art, culture, cuisine, film, drama, music, and language. Students who have international experience, especially in Korea, will have a wide range of employment opportunities.

### Career Options

Content Creator, Performer, Creative Marketer, Event Organizer, Foodpreneur, and Advertiser working in a Korean environment.

## Course Distribution

### Fundamental Courses

Course	SCU
HTMN6163021 Korean Cuisine and Culinary Arts	4
COMM6718019 Korean Language and Media	4
FILM6134009 Hallyu Creative Content	2
<b>Total SCU</b>	<b>10</b>

### Supporting Courses

Course	SCU
FILM6135009 K-Drama and Beyond: Analysis and Appreciation	4
COMM6719019 K-Pop Culture and Performance	4
MKTG6339005 K-Pop and K-Drama Marketing and Promotion	2
<b>Total SCU</b>	<b>10</b>

### Additional Information

None

## 16. Minor Program: Digital Technopreneur

### Introduction

Digital Technopreneur is a minor program that facilitates students in exploring the potentials of developing digital technology venture that combines technical competence with entrepreneurial skills, creativity, and innovative ideas to produce digital technology business models & prototypes. The minor program embraces the human-centered approach in helping students to develop innovative value propositions.

### Career Options

Entrepreneur, Digital-preneur, Techno-preneur, Creative-preneur, Design-preneur.

## Course Distribution

### Fundamental Courses

Course	SCU
ENTR6528002 The Entrepreneurial Innovator	4
DSGN6839006 Interactive Design	4
COMM6504018 Digital Branding	2
ENPR6196002 Market Intelligence	2
COMP6687004 User Experience Design	4
DSGN6844023 Prototyping Digital Future	4
<b>Total SCU</b>	<b>20</b>

### Additional Information

None

## 17. Minor Program: Designpreneur

### Introduction

The Designpreneur Minor program give students the ability to be able to produce innovative work in the form of products or services based on creativity and design that can be utilized in running or developing a business.

### Career Options

Design journalist, product designer, packaging designer, service system designer, service process analyst, creative director, sociopreneur.

### Course Distribution

#### Fundamental Courses

Course	SCU
ENTR6525032 Fundamental of Designpreneur	4
COMP6688031 UI/UX Development	4
DSGN6797034 Surface Packaging Design	4
ENTR6526032 Hospitality and Service Design	4
DSGN6843033 Project Design	4
<b>Total SCU</b>	<b>20</b>

### Additional Information

None

## 18. Minor Program: Content Creation

### Introduction

You've probably heard it by now: Content is king. But why? Those days Consumers are going online, marketing has gone digital, and content creation is more important now than ever. Content creation encapsulates copywriting, design, production and other media that provide value and connect you to your target audience. Matching search intent and providing value (to the consumer and brand) is the foundation of successful content creation. Content creators produce work on a variety of platforms including social media, blogs, podcasts, video platforms, case studies, white papers, infographics and more.

### Career Options

Content Creator, Influencer, Social media Specialist.

### Course Distribution

#### Fundamental Courses

Course	SCU
FILM6105009 Filmmaking Fundamental	4
MKTG6336055 Content Marketing Analytics	4
DSIN6042053 Photography for Creators	2
<b>Total SCU</b>	<b>10</b>

**Supporting Courses**

Course		SCU
DSIN6094053	Content Storytelling	4
DSIN6043053	Strategic Influence	2
DSIN6041053	Introduction to Visual Communication Design	4
<b>Total SCU</b>		<b>10</b>

**Additional Information**

None

**19. Minor Program: Metaverse in Business**
**Introduction**

The objective of the Metaverse in Business minor program in general is to offer a new learning experience in business innovation in the digital world. After completing the Metaverse in Business minor program, students will be able to design Virtual Reality applications so that they are able to present users in a virtual world, as if they are in another place, and develop Augmented Reality applications to present virtual effects in the real world.

**Career Options**

AR/VR Designer, AR/VR Developer, AR/VR Engineer, AR/VR Researcher.

**Course Distribution**
**Fundamental Courses**

Course		SCU
ISYS6777052	Business Model	2
COMP6889051	Virtual Reality	4
COMP6890051	Augmented reality	4
<b>Total SCU</b>		<b>10</b>

**Supporting Courses**

Course		SCU
ISYS6778052	Data Analytics	2
DSGN6981053	Design Thinking	4
DSGN6980053	Interface Design	4
<b>Total SCU</b>		<b>10</b>

**Additional Information**

None

**Appendix: Free Electives (4<sup>th</sup> Semester & 5<sup>th</sup> Semester)**

No	Course Owner Department	Course Code	Course Name	SCU	Semester
1	Business Management	MGMT6455005	Servitization and Customer Experience Management	2	4
2	Business Management	MGMT6456005	Fundamentals of Supply Chain Management	4	4
3	Business Management	MGMT6457005	Global Supply Chain Services	4	4
4	Business Management	MGMT6401005	Digital Supply Chain Management	2	4
5	Business Management	MGMT6365005	Current Issue in Service Business and Technology**	2	4
6	Business Management	MGMT6400005	Supply Chain Strategy	2	5
7	Business Management	MGMT6459005	Retail Management	4	5
8	Management	FINC6001005	Financial Management	4	5
9	Management	MGMT6462005	Leadership Agility	4	4
10	Management	MGMT6463005	Organizational Behavior	4	4
11	Management	MGMT6464005	Corporate Governance	2	4
12	Management	MGMT6341005	Strategic Management	4	4
13	Management	LAWS6159005	Legal Aspect in Business	2	4
14	Global Business Marketing	MKTG6321005	Marketing Data Analytics	4	4
15	Global Business Marketing	MKTG6237005	Global Strategic Marketing : Asia Pasific Perspective	4	4
16	Global Business Marketing	MKTG6270005	Retail and Omni Channel	2	4
17	Global Business Marketing	MKTG6272005	Marketing Research	2/2	4
18	Global Business Marketing	MGMT6358005	Managing Business Information	2/2	5
19	International Business Management	BUSS6222005	Export-Import Cost Management	2	4
20	International Business Management	MGMT6458005	Global Supply Chain Management	2	4
21	International Business Management	BUSS6191005	Export-Import Management	2	4
22	International Business Management	MGMT6357005	Multinational Corporation Management	4	5
23	International Business Management	BUSS6223005	Trade in Asia	2	5
24	Computer Engineering	CPEN6098010	Computer Networks	2/2	5
25	Computer Engineering	CPEN6220010	Computer Networks & Information Security	4/1	5
26	Industrial Engineering	ISYE6181011	System Engineering & Analysis	2	4
27	Industrial Engineering	ISYE6041011	Engineering Economy	2	4
28	Industrial Engineering	ISYE6067011	Global Supply Chain	2	5
29	Industrial Engineering	ISYE6115011	Transportation Modeling	2	5

No	Course Owner Department	Course Code	Course Name	SCU	Semester
30	Industrial Engineering	ISYE6167011	Decision Support System	2	5
31	Industrial Engineering	ISYE6168011	Financial Engineering	2	5
32	Industrial Engineering	ISYE6169011	Maintenance Management Systems	2	5
33	Food Technology	CPEN6235015	IoT in Food Industry	2	5
34	Computer Science	COMP6800001	Human and Computer Interaction	2/1	4
35	Computer Science	COMP6823001	Multimedia Systems	2	4
36	Computer Science	ISYS6211001	Web Based Application Development	2/2	4
37	Computer Science	COMP7128001	Game Design	2	4
38	Computer Science	COMP6590001	Geographical Information System	2/2	5
39	Marketing Communication	COMM6613019	Introduction to Media Industry	2	4
40	Marketing Communication	COMM6624019	Digital Creative Content	2/2	5
41	Marketing Communication	COMM6533019	Creative Program Design	2/2	5
42	Marketing Communication	COMM6633019	Corporate Sustainability	4	5
43	Marketing Communication	COMM6632019	Writing for Corporate Communication	2/2	5
44	Marketing Communication	COMM6541019	Digital Corporate Communication	2/2	5
45	Marketing Communication	COMM6634019	Environmental Issues and Brand Activism	4	5
46	Marketing Communication	COMM6635019	Integrated Marketing Communication	2	5
47	Marketing Communication	COMM6638019	Social Media Planning & Engagement	2/2	5
48	Tourism	BUSS6137022	Tourism E-Business	4	4
49	Tourism	TRSM6140022	Tourism Law and Regulation	2	4
50	Tourism	TRSM6142022	Event Management	4	5
51	Tourism	BUSS6137022	Tourism E-Business	4	5
52	Hotel Management	HTMN6145021	Revenue Management in Hospitality	2	4
53	Hotel Management	HTMN6027021	Service Management	4	4
54	Taxation	TAXN6055020	Customs, Export and Import Tax Planning	2	4
55	Finance	FINC6189020	Introduction to Financial Market and Fin-Tech	2	5
56	Cyber Security	COMP6549001	Software Security	2	4
57	Cyber Security	COMP6542001	Computer Security Fundamental	2	5
58	Data Science	DTSC6005001	Data Mining and Visualization	2/1	4
59	Data Science	DTSC6006001	Machine Learning	2/1	5
60	Mobile Application & Technology	MOBI6070001	Embedded System and Internet of Things	3	5
61	Mathematics	MATH6187016	Machine Learning	2/1	4
62	Information Systems	ISYS6210003	Data Visualization	2	4
63	Information Systems	ISYS6594003	Coding for Finance	2	4

No	Course Owner Department	Course Code	Course Name	SCU	Semester
64	Information Systems	ISYS6199003	Data & Text Mining	4	5
65	Information Systems	ISYS6402003	Business Analytics	2/2	5
66	Information Systems	ISYS8066003	Business Process Management	4	5
67	Information Systems	ISYS6203003	Mobile Application Development	2/2	4
68	Business Information Technology	ISYS6574003	Information Retrieval	4	4
69	Business Information Technology	ISYS6577003	Machine Learning & Foundations	2	4
70	Business Information Technology	ISYS6606003	Smart Application	2	4
71	Business Information Technology	ISYS6579003	Knowledge-Based AI: Cognitive Systems	4	5
72	Animation	DSGN6689007	Concept Art & Production Design	2	5
73	Animation	DSGN6690007	Animation Storytelling	2	5
74	Creative Advertising	DSGN6651007	Photography	4	4
75	Creative Advertising	DSGN6661007	Photography	4	5
76	Film	FILM6080009	Southeast Asian Cinema & Popular Culture	4	4
77	Film	FILM6059009	Global Cinema	4	5
78	Interior Design	DSGN6888008	Interior Accessories Design	2	4
79	International Relations	INTR6148029	Multinational Corporations Global Strategy and Social Responsibility	2/2	4
80	International Relations	INTR6158029	Indonesia's Defense and Security Policy	2	4
81	International Relations	INTR6162029	Multiculturalism and Digital Society	2	4
82	International Relations	INTR6180029	Introduction to International Media	2	5
83	English Literature	SOCS6021024	Social and Digital Media Writing	2	4
84	English Literature	ENGL6244024	Social Media Broadcasting	4	4
85	English Literature	SOCS6021024	Social and Digital Media Writing	2	5
86	English Literature	ENGL6244024	Social Media Broadcasting	4	5
87	Business Law	LAWS6017028	Intellectual Property Rights	4	5
88	Business Law	LAWS6052028	Bankruptcy Law	2	5
89	Business Law	LAWS6176028	Tax Law	2	5
90	Psychology	PSYC6130027	Human Performance Technology	4	5
91	Psychology	PSYC6191027	E-Learning Psychology	4	5
92	Psychology	PSYC6123027	Educational Psychology	2	4
93	Primary Teacher Education	EDUC6072030	International Curriculum	2	4
94	Primary Teacher Education	EDUC6073030	ICT for Distance Learning	4	4
95	Primary Teacher Education	EDUC6073030	ICT for Distance Learning	4	5
96	Japanese Literature	JAPN6150025	Ideas and Images of Japanese Culture (Nihon Bunka Aidea to Imeeji)	2	4

No	Course Owner Department	Course Code	Course Name	SCU	Semester
97	Japanese Literature	JAPN6173025	Contemporary Japanese Society Through Various Perspective (Nihon Shakai e no Kangaekata)	2	4
98	Japanese Literature	JAPN6056025	Practical Japanese Culture (Nihon Bunka Taiken)	2	4
99	Japanese Literature	JAPN6104025	Japanese Industry and Technology	2	4
100	Japanese Literature	JAPN6104025	Japanese Industry and Technology	2	5

**Enrichment Program I (6<sup>th</sup> Semester) & Enrichment Program II (7<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 6							Semester 7							
	IN	RS	EN	CD	SA	IS	etc	IN	RS	EN	CD	SA	IS	FS	etc
1	v							v							
2	v								v						
3	v										v				
4	v											v			
5	v												v		
6	v													v	
7		v						v							
8		v							v						
9		v											v		
10		v												v	
11			v					v							
12			v						v						
13			v								v				
14			v									v			
15			v										v		
16			v											v	
17	v									v					
18		v								v					
19			v							v					
20				v						v					
21					v					v					
22						v				v					
23				v				v							
24				v					v						
25				v							v				
26				v									v		
27				v										v	
28					v			v							
29					v				v						
30					v						v				
31					v								v		
32					v									v	
33						v		v							
34						v			v						

Track	Semester 6							Semester 7							
	IN	RS	EN	CD	SA	IS	etc	IN	RS	EN	CD	SA	IS	FS	etc
35						v					v				
36						v								v	

**Note:**

IN	: Company Internship	SA	: Study Abroad
RS	: Research Fellowship	IS	: Specific Independent Study
EN	: Entrepreneurship	FS	: Fast Track
CD	: Community Impact Internship	etc	: Study Program Special Purposes

**Description:**

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**.

**Company Internship Track**

Code	Course Name	SCU	Total
<b>Enrichment Program I</b>			
ISYS6215003	Experience in Industry	8	20
ISYS6844003	Requirement and Solution for Information Systems	8	
COMM6703003	Business & Professional Communication	4	
<b>Enrichment Program II</b>			
ISYS6347003	Professional Program in Industry	8	20
ISYS6845003	Design and Evaluation of Information Systems	8	
BUSS6249003	Business Ethic and Social Responsibility	4	

**Entrepreneurship Track**

Code	Course Name	SCU	Total
<b>Enrichment Program I</b>			
ENTR6949003	New Venture Initiation in Information Systems	8	20
ENTR6596003	Product Development Process for Information Technology Business	8	
ENTR6950003	EES in New Information Systems Business I	4	
<b>Enrichment Program II</b>			
ENTR6951003	Product Launching in Information Systems	8	20
ENTR6597003	Business Development for Information Technology Business	8	
ENTR6952003	EES in New Information Systems Business II	4	

**Research Fellowship Track**

Code	Course Name	SCU	Total
<b>Enrichment Program I</b>			20
RSCH6275003	Research Experience	8	
RSCH6510003	Scientific Writing in Information Systems Research	8	
RSCH6460003	EES in Information Systems Research	4	
<b>Enrichment Program II</b>			20
RSCH6412003	Information Systems Research Experience	8	
RSCH6511003	Scientific Writing in Information Systems	8	
RSCH6414003	Global Employability and Entrepreneurial Skills in Information Systems Research	4	

**Community Impact Internship Track**

Code	Course Name	SCU	Total
<b>Enrichment Program I</b>			20
CMDV6156003	Community Outreach Project Implementation	8	
CMDV6289003	Community Outreach Project Design in Information Systems	8	
CMDV6259003	Employability and Entrepreneurial Skills in Information Systems Community	4	
<b>Enrichment Program II</b>			20
CMDV6260003	Community Development Project Implementation	8	
CMDV6290003	Community Development Project Design in Information Systems	8	
CMDV6262003	Employability and Entrepreneurial Skills in Information Systems Community Development	4	

**Study Abroad Track**

Code	Course Name	SCU	Total
<b>Elective courses list for study abroad*</b>			20
<b>Enrichment Program I/II</b>			
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.

### Specific Independent Study

Code	Course Name	SCU	Total
<b>Elective courses list for certified specific independent study*</b>			
CSIS6001003	Course Certification	3	20
CSIS6002003	Technical Skill Enrichment	4	
CSIS6003003	Industrial Project	9	
CSIS6004003	Soft Skill Enrichment	4	
CSIS6005003	Elective Course for Specific Independent Study 1	8	
CSIS6006003	Elective Course for Specific Independent Study 2	8	
CSIS6007003	Elective Course for Specific Independent Study 3	6	
CSIS6008003	Elective Course for Specific Independent Study 4	6	
CSIS6009003	Elective Course for Specific Independent Study 5	6	
CSIS6010003	Elective Course for Specific Independent Study 6	5	
CSIS6011003	Elective Course for Specific Independent Study 7	5	
CSIS6012003	Elective Course for Specific Independent Study 8	5	
CSIS6013003	Elective Course for Specific Independent Study 9	5	
CSIS6014003	Elective Course for Specific Independent Study 10	4	
CSIS6015003	Elective Course for Specific Independent Study 11	4	
CSIS6016003	Elective Course for Specific Independent Study 12	4	
CSIS6017003	Elective Course for Specific Independent Study 13	4	
CSIS6018003	Elective Course for Specific Independent Study 14	4	
CSIS6019003	Elective Course for Specific Independent Study 15	3	
CSIS6020003	Elective Course for Specific Independent Study 16	3	
CSIS6021003	Elective Course for Specific Independent Study 17	3	
CSIS6022003	Elective Course for Specific Independent Study 18	3	
CSIS6023003	Elective Course for Specific Independent Study 19	3	
CSIS6024003	Elective Course for Specific Independent Study 20	3	
CSIS6025003	Elective Course for Specific Independent Study 21	2	
CSIS6026003	Elective Course for Specific Independent Study 22	2	
CSIS6027003	Elective Course for Specific Independent Study 23	2	
CSIS6028003	Elective Course for Specific Independent Study 24	2	
CSIS6029003	Elective Course for Specific Independent Study 25	2	
CSIS6030003	Elective Course for Specific Independent Study 26	2	
CSIS6031003	Elective Course for Specific Independent Study 27	2	
CSIS6032003	Elective Course for Specific Independent Study 28	2	
CSIS6033003	Elective Course for Specific Independent Study 29	1	
CSIS6034003	Elective Course for Specific Independent Study 30	1	
CSIS6035003	Elective Course for Specific Independent Study 31	1	
CSIS6036003	Elective Course for Specific Independent Study 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.

### Fast Track

Code	Course Name	SCU	Total
<b>Enrichment Program II (Master of Management Information Systems: Information Systems Strategic Management Stream)</b>			20
ISYS6829003	Digital Technology and Transformation	4	
ISYS6830003	Data Analytics for Business	6	
ISYS6831003	Applied Technology in Information Systems*	4	
ISYS6849003	Strategic Planning for Information Systems	6	
<b>Enrichment Program II (Master of Management Information Systems: Digitalpreneurship Stream)</b>			
ISYS6829003	Digital Technology and Transformation	4	
ISYS6830003	Data Analytics for Business	6	
ISYS6831003	Applied Technology in Information Systems*	4	
ISYS6848003	New Media Ventures and Innovation	6	

\*) Students are required to obtain certification no later than the end of the first semester of the master's (S2) program, as outlined in the university's official guidelines. This certification will be transferred as an undergraduate (S1) course and reported in the seventh semester of the undergraduate program.

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

No	Course Code	Course Name	Minimal Grade
1.	CHAR6013003	Character Building: Pancasila	B
2.	ENPR6312001	Venture Creation	C
3.	ISYS6186003	Business Process Fundamental	C
4.	ISYS6126003	Enterprise System*	C
5.	ISYS6123003	Introduction to Database Systems	C
6.	ISYS6677003	Information Systems Analysis and Design*	C
7.	ISYS6198003	Data and Information Management*	C
8.	ISYS6256003	Information Systems Project Management	C

\*) Tutorial & Multipaper