

## 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.

Information System (IS) study program BINUS @Semarang support industrial revolution 4.0, especially in data analytics. The streaming offered in the Information Systems study program BINUS @Semarang is Marketing Intelligence. Information Systems BINUS @Semarang students can carry out the mobility program to other campuses (Jakarta, Bandung, Malang, Bekasi) after semester 3.

### Vision



A world class information system study program specialized in ITbusiness supporting the industrial revolution, recognized internationally, and champions innovation for fostering and empowering the society.

### Mission

1. Nurturing students and lecturers with creative and value-adding talents in Information System by creating a suitable environment to support industrial revolution;
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 in preparation for the industrial revolution;
3. Providing integrated knowledge to pursue further studies and create outstanding professionals, entrepreneurs, and leaders for a global community ready for industrial revolution;
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**

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 who are ready for industrial revolution, 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. To 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 (or Learning Goals only for BBS Program)**

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. Marketing Intelligence Specialist
5. Data Analyst
6. Digital Business Specialist
7. Enterprise Resource Planning (ERP) Specialist
8. Software Architect
9. Information Security Analyst
10. System Designer
11. Database Administrator
12. Database Analyst
13. Data Scientist
14. User Experience Designer
15. IT/IS Consultant
16. Application Developer
17. Web-Developer/Web-Designer

18. IT Development Project Leader
19. Software Quality Assurance Tester
20. IT User Liaison
21. IT/IS Researcher
22. Entrepreneur

## 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: Marketing Intelligence, Strategic Information Systems, Digital Technology, Applied Database, Applied Cloud Computing, Applied Enterprise Resource Planning (ERP), and Artificial Intelligence for Business.
8. Minor Program
9. Free Electives
10. Enrichment Program
11. Thesis

## Course Structure

| Sem | Code                            | Course Name                                 | SCU | Total |
|-----|---------------------------------|---------------------------------------------|-----|-------|
| 1   | ACCT6441052                     | Introduction to Financial Accounting        | 2   | 20    |
|     | ISYS6719052                     | Business Process Fundamental**              | 4   |       |
|     | ISYS6720052                     | Information System Concept*&**              | 4   |       |
|     | COMP6877052                     | Introduction to Programming                 | 2/2 |       |
|     | ISYS6733052                     | Information Technology Infrastructure       | 2   |       |
|     | CHAR6044052                     | Character Building: Pancasila               | 2   |       |
|     | LANG6114052                     | Indonesian                                  | 2   |       |
|     | <b>Foreign Language Courses</b> |                                             |     |       |
| 2   | ISYS6721052                     | Introduction to Database Systems**          | 2/2 | 20    |
|     | ISYS6723052                     | Enterprise System*&**                       | 4   |       |
|     | ISYS6727052                     | Testing and System Implementation** - (AOL) | 2   |       |
|     | ENPR6098052                     | Entrepreneurship: Ideation                  | 2   |       |
|     | ISYS6724052                     | User Experience Research and Design**       | 4/2 |       |
|     | CHAR6045052                     | Character Building: Kewarganegaraan         | 2   |       |

| Sem                             | Code                                                                 | Course Name                                                | SCU | Total |
|---------------------------------|----------------------------------------------------------------------|------------------------------------------------------------|-----|-------|
|                                 | <b>Foreign Language Courses</b>                                      |                                                            | 0   |       |
| 3                               | CHAR6043052                                                          | Character Building: Agama                                  | 2   | 21    |
|                                 | ISYS6748052                                                          | Information Systems Analysis and Design **&***             | 5/2 |       |
|                                 | ISYS6749052                                                          | Business Application Development                           | 2/2 |       |
|                                 | ISYS6750052                                                          | Information Systems Project Management *&**                | 4   |       |
|                                 | ISYS6751052                                                          | Data and Information Management **                         | 4   |       |
|                                 | <b>Foreign Language Courses</b>                                      |                                                            | 0   |       |
| 4                               | ISYS6752052                                                          | Advanced Information System Analysis and Design **&***     | 5/2 | 19    |
|                                 | ISYS6753052                                                          | Knowledge Management **                                    | 2   |       |
|                                 | ISYS6754052                                                          | Research Methods in Information Systems                    | 2   |       |
|                                 | <b>Stream : Marketing Intelligence<sup>1)</sup></b>                  |                                                            |     |       |
|                                 | ISYS6755052                                                          | Marketing Intelligence                                     | 4   |       |
|                                 | ISYS6756052                                                          | Social Media Marketing & Analytics *                       | 4   |       |
|                                 | <b>Stream : Strategic Information System<sup>2)</sup></b>            |                                                            |     |       |
|                                 | ISYS6146003                                                          | Information System Security *                              | 2   |       |
|                                 | ISYS6614003                                                          | IS Strategy, Management and Acquisition **                 | 2   |       |
|                                 | ISYS6284003                                                          | Analytical Information System                              | 4   |       |
|                                 | <b>Stream : Digital Technology<sup>2)</sup></b>                      |                                                            |     |       |
|                                 | ISYS6211003                                                          | Web Based Application Development                          | 2/2 |       |
|                                 | ISYS6285003                                                          | Digital and New Media *&**                                 | 2   |       |
|                                 | ISYS6615003                                                          | e-Business Design                                          | 2   |       |
|                                 | <b>Stream : Applied ERP<sup>2)</sup></b>                             |                                                            |     |       |
|                                 | ISYS6146003                                                          | Information System Security                                | 2   |       |
|                                 | ISYS6442003                                                          | Applied ERP: Fundamental                                   | 4   |       |
|                                 | ISYS6614003                                                          | IS Strategy, Management and Acquisition **                 | 2   |       |
|                                 | <b>Stream : Applied Database<sup>2)</sup></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<sup>2)</sup></b>                 |                                                            |     |       |
|                                 | ISYS6734003                                                          | Cloud Computing Foundation                                 | 4   |       |
|                                 | ISYS6735003                                                          | Enterprise Cloud Security and Governance                   | 4   |       |
|                                 | <b>Streaming : Artificial Intelligence for Business<sup>3)</sup></b> |                                                            |     |       |
|                                 | ISYS6572003                                                          | Basic Artificial Intelligence                              | 4   |       |
| ISYS6606003                     | Smart Application                                                    | 2                                                          |     |       |
| ISYS6577003                     | Machine Learning & Foundations                                       | 2                                                          |     |       |
| <b>Foreign Language Courses</b> |                                                                      | 0                                                          |     |       |
| <b>Minor Program</b>            |                                                                      | 8                                                          |     |       |
| <b>Free Electives</b>           |                                                                      | 8                                                          |     |       |
| 5                               | ENPR6100052                                                          | Entrepreneurship: Market Validation                        | 2   | 20    |
|                                 | ISYS6757052                                                          | Advanced in Business Application Development **            | 4/2 |       |

| Sem | Code                                                                 | Course Name                                   | SCU                          | Total |
|-----|----------------------------------------------------------------------|-----------------------------------------------|------------------------------|-------|
|     | <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>Stream : Strategic Information System<sup>2)</sup></b>            |                                               |                              |       |
|     | ISYS6205003                                                          | Enterprise Architecture**                     | 4                            |       |
|     | ISYS8066003                                                          | Business Process Management                   | 4                            |       |
|     | ISYS6202003                                                          | Social Informatics*                           | 4                            |       |
|     | <b>Stream : Digital Technology<sup>2)</sup></b>                      |                                               |                              |       |
|     | ISYS6187003                                                          | Business Web Solution**                       | 4                            |       |
|     | ISYS6289003                                                          | Collaborative Computing*                      | 4                            |       |
|     | ISYS6203003                                                          | Mobile Applications Development               | 2/2                          |       |
|     | <b>Stream : Applied ERP<sup>2)</sup></b>                             |                                               |                              |       |
|     | ISYS6205003                                                          | Enterprise Architecture**                     | 4                            |       |
|     | ISYS6696003                                                          | Applied ERP: Integrated Business Process*     | 8                            |       |
|     | <b>Stream : Applied Database<sup>2)</sup></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<sup>2)</sup></b>                 |                                               |                              |       |
|     | ISYS6736003                                                          | Cloud Architecting                            | 4                            |       |
|     | ISYS6737003                                                          | Cloud Data Analytics                          | 4                            |       |
|     | ISYS6738003                                                          | Cloud Machine Learning                        | 4                            |       |
|     | <b>Streaming : Artificial Intelligence for Business<sup>3)</sup></b> |                                               |                              |       |
|     | ISYS6574003                                                          | Information Retrieval                         | 4                            |       |
|     | ISYS6578003                                                          | Deep Learning for Business                    | 4                            |       |
|     | ISYS6579003                                                          | Knowledge-Based AI: Cognitive Systems         | 4                            |       |
|     | <b>Minor Program</b>                                                 |                                               | 12                           |       |
|     | <b>Free Electives</b>                                                |                                               | 12                           |       |
| 6   | Enrichment Program I                                                 |                                               | 20                           | 20    |
| 7   | Enrichment Program II                                                |                                               | 20                           | 20    |
| 8   | ISYS6758052                                                          | Pre-Thesis                                    | 2                            | 6     |
|     | ISYS6759052                                                          | Thesis                                        | 4                            |       |
|     | ISYS6760052                                                          | Thesis                                        | 6                            |       |
|     |                                                                      |                                               | <b>Total Credits 146 SCU</b> |       |

\*) This course is delivered in English

\*\*) Global Learning System Course

For 5th Semester:

1) Streaming for BINUS @Semarang

2) Streaming for Information Systems BINUS @ Greater Jakarta

3) Streaming for Business Information Technology BINUS @Bekasi

**Streaming/Minor/Free Electives:**

-) For 5<sup>th</sup> Semester: Students are required to choose one of the streamings/ minor program/free electives/ cross streaming.

-) **AOL** – Assurance of Learning Process System

**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.

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

| Course                                    | SCU |
|-------------------------------------------|-----|
| <b>Foreign Language Courses</b>           |     |
| ENGL6264052 English for Frontrunners      | 0   |
| ENGL6265052 English for Independent Users | 0   |
| ENGL6266052 English for Professionals     | 0   |
| JAPN6207052 Basic Japanese Language*      | 0   |
| CHIN6184052 Basic Chinese Language*       | 0   |

1. Students with Binus University English Proficiency Test score less than 437 are required to take English for Frontrunners and English for Independent Users.
2. Students with Binus University English Proficiency Test score less than 520 are required to take English for Independent Users and English for Professionals.
3. Students with Binus University English Proficiency Test score equal to or greater than 520 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>     |            |            |
| Digital Ecosystem                     | v          | v          |
| Human Capital in Digital Workplace    | v          | v          |
| Sustainable Development               | v          | v          |
| Cross Cultural Communication          | v          | v          |
| Interactive & Users Experience Design | v          | v          |
| Data Analytics                        | v          | v          |
| Robotic Process Automation            | v          | v          |
| Event Business and Entertainment      | v          | v          |
| Creative Digital Storytelling         | v          | v          |
| Digital Banking                       | v          | v          |
| Blockchain Technology and Business    | v          | v          |
| <b>Minor @ Binus Alam Sutera</b>      |            |            |
| Digital Transformation                | v          | v          |
| <b>Minor @ Binus Bekasi</b>           |            |            |
| Culinary                              | v          | v          |
| <b>Minor @ Binus Malang</b>           |            |            |
| Digital Technopreneur                 | v          | v          |
| <b>Minor @ Binus Bandung</b>          |            |            |
| DesignPreneur                         | v          | v          |
| <b>Minor @ Binus Semarang</b>         |            |            |
| Metaverse in Business                 | v          | v          |
| Content Creation                      | 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: Digital Ecosystem**
**Minor 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> |

**Minor 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> |

**2. Minor: Human Capital in Digital Workplace**
**Minor 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> |

**3. Minor: Sustainable Development**
**Minor 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> |

**Minor 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> |

**4. Minor: Cross Cultural Communication**
**Minor 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> |



**Minor Supporting Courses**

| Course                                                     | SCU       |
|------------------------------------------------------------|-----------|
| CHIN6134026 Chinese Conversation in Business Communication | 4         |
| LAWS6158028 Private International Law                      | 2         |
| INTR6135029 Comparative Politics                           | 4         |
| <b>Total SCU</b>                                           | <b>10</b> |

**5. Minor Program: Interactive & Users Experience Design**
**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> |

**6. Minor Program: Data Analytics**
**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> |

## 7. Minor Program: Robotic Process Automation

### 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> |

## 8. Minor Program: Event Business and Entertainment

### 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> |

## 9. Minor Program: Creative Digital Storytelling

### 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> |

**10. Minor Program: Digital Banking**
**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> |

**11. Minor Program: Blockchain Technology and Business**
**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> |

## 12. Minor Program: Digital Transformation

### 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> |

## 13. Minor Program: Culinary

### 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

## 14. Minor Program: Digital Technopreneur

### 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> |

### 15. Minor Program: Designpreneur

#### 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> |

### 16. Minor Program: Metaverse in Business

#### 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> |

### 17. Minor Program: Content Creation

#### 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> |

**Appendix: Free Electives (4th & 5th Semester)**

| No | Course Owner Department   | Course Code | Course Name                                | SCU | Semester |
|----|---------------------------|-------------|--------------------------------------------|-----|----------|
| 1  | Management                | MGMT6464005 | Corporate Governance                       | 2   | 4        |
| 2  | Management                | MGMT6297005 | Operations Management**                    | 4   | 5        |
| 3  | Management                | FINC6001005 | Financial Management                       | 4   | 5        |
| 4  | Global Business Marketing | MKTG6322005 | Sales and Customer Relationship Management | 4   | 4        |
| 5  | Global Business Marketing | MGMT6358005 | Managing Business Information              | 2/2 | 5        |
| 6  | Computer Science          | COMP6823001 | Multimedia Systems                         | 2   | 4        |
| 7  | Computer Science          | COMP6590001 | Geographical InformationSystem             | 2/2 | 5        |
| 8  | Computer Science          | MOBI6059001 | Mobile Programming                         | 2   | 5        |
| 9  | Cyber Security            | COMP6549001 | Software Security                          | 2   | 4        |
| 10 | Information Systems       | BUSS6043003 | Introduction to E-Business                 | 4   | 4        |
| 11 | Information Systems       | ISYS6016003 | Social Media Fundamental                   | 2   | 4        |
| 12 | Information Systems       | ISYS6210003 | Data Visualization                         | 2   | 4        |
| 13 | Information Systems       | ISYS6284003 | Analytical Information System              | 4   | 4        |
| 14 | Information Systems       | ISYS6196003 | Business Analytics                         | 2   | 5        |
| 15 | Information Systems       | ISYS6199003 | Data & Text Mining                         | 4   | 5        |
| 16 | Information Systems       | ISYS6202003 | Social Informatics                         | 4   | 5        |
| 17 | Information Systems       | ISYS6289003 | Collaborative Computing                    | 4   | 5        |
| 18 | Information Systems       | ISYS8066003 | Business Process Management                | 4   | 5        |
| 19 | Business Law              | LAWS6110028 | Cyber Law                                  | 2   | 5        |
| 20 | Psychology                | PSYC6130027 | Human Performance Technology               | 4   | 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 | 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  |    |    |     |

**Note:**

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

**Description:**

Student will take one of enrichment program tracks

**Certified Internship Track**

| Code                         | Course Name                                      | SCU | Total |
|------------------------------|--------------------------------------------------|-----|-------|
| <b>Enrichment Program I</b>  |                                                  |     | 20    |
| ISYS6761052                  | Experience in Industry                           | 8   |       |
| ISYS6762052                  | Requirement and Solution for Information Systems | 8   |       |
| COMM6662052                  | Business & Professional Communication            | 4   | 20    |
| <b>Enrichment Program II</b> |                                                  |     |       |
| ISYS6763052                  | Professional Program in Industry                 | 8   |       |
| ISYS6764052                  | Design and Evaluation for Information Systems    | 8   | 20    |
| BUSS6232052                  | Business Ethic and Social Responsibility         | 4   |       |

**Certified Entrepreneurship Track**

| Code                         | Course Name                                                     | SCU | Total |
|------------------------------|-----------------------------------------------------------------|-----|-------|
| <b>Enrichment Program I</b>  |                                                                 |     | 20    |
| ENPR6130052                  | New Venture Initiation in Information Systems                   | 8   |       |
| ENPR6131052                  | Product Development Process for Information Technology Business | 8   |       |
| ENPR6132052                  | EES in New Information Systems Business I                       | 4   |       |
| <b>Enrichment Program II</b> |                                                                 |     | 20    |
| ENPR6133052                  | Product Launching in Information Systems                        | 8   |       |
| ENPR6134052                  | Business Development for Information Technology Business        | 8   |       |
| ENPR6135052                  | EES in New Information Systems Business II                      | 4   |       |

**Certified Research Track**

| Code                         | Course Name                                                                     | SCU | Total |
|------------------------------|---------------------------------------------------------------------------------|-----|-------|
| <b>Enrichment Program I</b>  |                                                                                 |     | 20    |
| RSCH6642052                  | Research Experience                                                             | 8   |       |
| RSCH6643052                  | Scientific Writing in Information Systems Research                              | 8   |       |
| RSCH6644052                  | EES in Information Systems Research                                             | 4   |       |
| <b>Enrichment Program II</b> |                                                                                 |     | 20    |
| RSCH6645052                  | Information Systems Research Experience                                         | 8   |       |
| RSCH6646052                  | Scientific Writing in Information Systems                                       | 8   |       |
| RSCH6647052                  | Global Employability and Entrepreneurial Skills in Information Systems Research | 4   |       |

**Certified Community Development Track**

| Code                         | Course Name                                                                           | SCU | Total |
|------------------------------|---------------------------------------------------------------------------------------|-----|-------|
| <b>Enrichment Program I</b>  |                                                                                       |     | 20    |
| CMDV6413052                  | Community Outreach Project Implementation                                             | 8   |       |
| CMDV6414052                  | Community Outreach Project Design in Information Systems                              | 8   |       |
| CMDV6415052                  | Employability and Entrepreneurial Skills in Information Systems Community             | 4   |       |
| <b>Enrichment Program II</b> |                                                                                       |     | 20    |
| CMDV6416052                  | Community Development Project Implementation                                          | 8   |       |
| CMDV6417052                  | Community Development Project Design in Information Systems                           | 8   |       |
| CMDV6418052                  | Employability and Entrepreneurial Skills in Information Systems Community Development | 4   |       |



**Certified Study Abroad Track**

| Code                        | Course Name                         | SCU | Total |
|-----------------------------|-------------------------------------|-----|-------|
| <b>Enrichment Program I</b> |                                     |     | 20    |
| GLOB6455052                 | Elective Course for Study Abroad 1  | 4   |       |
| GLOB6456052                 | Elective Course for Study Abroad 2  | 4   |       |
| GLOB6457052                 | Elective Course for Study Abroad 3  | 4   |       |
| GLOB6458052                 | Elective Course for Study Abroad 4  | 4   |       |
| GLOB6459052                 | Elective Course for Study Abroad 5  | 2   |       |
| GLOB6460052                 | Elective Course for Study Abroad 6  | 2   |       |
| GLOB6461052                 | Elective Course for Study Abroad 7  | 2   |       |
| GLOB6462052                 | Elective Course for Study Abroad 8  | 2   |       |
| GLOB6463052                 | Elective Course for Study Abroad 9  | 2   |       |
| GLOB6464052                 | Elective Course for Study Abroad 10 | 2   |       |
| GLOB6465052                 | Elective Course for Study Abroad 11 | 2   |       |
| GLOB6466052                 | Elective Course for Study Abroad 12 | 2   |       |
| GLOB6467052                 | Elective Course for Study Abroad 13 | 2   |       |

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

**Certified Specific Independent Study Track**

| Code                                                         | Course Name                                       | SCU | Total |
|--------------------------------------------------------------|---------------------------------------------------|-----|-------|
| <b>Elective courses list for Specific Independent Study*</b> |                                                   |     | 20    |
| <b>Enrichment Program I/II</b>                               |                                                   |     |       |
| CSIS6061052                                                  | Course Certification                              | 3   |       |
| CSIS6062052                                                  | Technical Skill Enrichment                        | 4   |       |
| CSIS6063052                                                  | Industrial Project                                | 9   |       |
| CSIS6064052                                                  | Soft Skill Enrichment                             | 4   |       |
| CSIS6065052                                                  | Elective Course for Specific Independent Study 1  | 8   |       |
| CSIS6066052                                                  | Elective Course for Specific Independent Study 2  | 8   |       |
| CSIS6067052                                                  | Elective Course for Specific Independent Study 3  | 6   |       |
| CSIS6068052                                                  | Elective Course for Specific Independent Study 4  | 6   |       |
| CSIS6069052                                                  | Elective Course for Specific Independent Study 5  | 6   |       |
| CSIS6070052                                                  | Elective Course for Specific Independent Study 6  | 5   |       |
| CSIS6071052                                                  | Elective Course for Specific Independent Study 7  | 5   |       |
| CSIS6072052                                                  | Elective Course for Specific Independent Study 8  | 5   |       |
| CSIS6073052                                                  | Elective Course for Specific Independent Study 9  | 5   |       |
| CSIS6074052                                                  | Elective Course for Specific Independent Study 10 | 4   |       |
| CSIS6075052                                                  | Elective Course for Specific Independent Study 11 | 4   |       |
| CSIS6076052                                                  | Elective Course for Specific Independent Study 12 | 4   |       |
| CSIS6077052                                                  | Elective Course for Specific Independent Study 13 | 4   |       |
| CSIS6078052                                                  | Elective Course for Specific Independent Study 14 | 4   |       |
| CSIS6079052                                                  | Elective Course for Specific Independent Study 15 | 3   |       |

| Code        | Course Name                                       | SCU | Total |
|-------------|---------------------------------------------------|-----|-------|
| CSIS6080052 | Elective Course for Specific Independent Study 16 | 3   |       |
| CSIS6081052 | Elective Course for Specific Independent Study 17 | 3   |       |
| CSIS6082052 | Elective Course for Specific Independent Study 18 | 3   |       |
| CSIS6083052 | Elective Course for Specific Independent Study 19 | 3   |       |
| CSIS6084052 | Elective Course for Specific Independent Study 20 | 3   |       |
| CSIS6085052 | Elective Course for Specific Independent Study 21 | 3   |       |
| CSIS6086052 | Elective Course for Specific Independent Study 22 | 2   |       |
| CSIS6087052 | Elective Course for Specific Independent Study 23 | 2   |       |
| CSIS6088052 | Elective Course for Specific Independent Study 24 | 2   |       |
| CSIS6089052 | Elective Course for Specific Independent Study 25 | 2   |       |
| CSIS6090052 | Elective Course for Specific Independent Study 26 | 2   |       |
| CSIS6091052 | Elective Course for Specific Independent Study 27 | 2   |       |
| CSIS6092052 | Elective Course for Specific Independent Study 28 | 2   |       |
| CSIS6093052 | Elective Course for Specific Independent Study 29 | 1   |       |
| CSIS6094052 | Elective Course for Specific Independent Study 30 | 1   |       |
| CSIS6095052 | Elective Course for Specific Independent Study 31 | 1   |       |
| CSIS6096052 | 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 courses outside BINUS University. Transferred courses will be transferred based on credit transfer policies on study program with total of 20 credits

### Certified Further Study Track

| Code                         | Course Name                             | SCU | Total |
|------------------------------|-----------------------------------------|-----|-------|
| <b>Enrichment Program II</b> |                                         |     | 20    |
| ISYS6654052                  | Service Oriented analysis and design    | 4   |       |
| ISYS6655052                  | Change Management for Enterprise        | 4   |       |
| ISYS6656052                  | Digital Transformation Management       | 4   |       |
| ISYS6657052                  | Data Analytics for Research             | 4   |       |
| ISYS6660052                  | Visualization and Descriptive Analytics | 4   |       |

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

| No | Course Code | Course Name                              | Minimal Grade |
|----|-------------|------------------------------------------|---------------|
| 1. | CHAR6044052 | Character Building: Pancasila            | B             |
| 2. | ISYS6719052 | Business Process Fundamental             | C             |
| 3. | ISYS6721052 | Introduction to Database Systems         | C             |
| 4. | ISYS6723052 | Enterprise System*                       | C             |
| 5. | ISYS6748052 | Information Systems Analysis and Design* | C             |
| 6. | ISYS6751052 | Data and Information Management*         | C             |
| 7. | ISYS6750052 | Information Systems Project Management   | C             |
| 8. | ENPR6100052 | Entrepreneurship: Market Validation      | C             |

\*) Tutorial & Multipaper