Master of Information System Management (MMSI)

Introduction

The graduates of the Information System Management Study Program have competency as leaders in the Information System (IS) field of jobs who can control the function of IS in their organization. Having both future insight and strategy to achieve vision, mission, and target, particularly regarding the involvement of IS and Information Technology (IT). In addition, he/she can be an IS consultant for the organization in planning IS strategy, including evaluating the effectiveness and efficiency of IS application.

Vision

A World Class Information Systems Management Graduate Program to Experience Cutting Edge Technology Applied to Business and Digital Transformation in Fostering and Empowering the Society in Serving and Building the Nation.

Mission

The mission of Master of Information System Management are:

1. To equip BINUSIAN with the latest advances in digital technology in solving business problems through applied research practices in line with global standards in Information Systems Management
2. To conduct multidisciplinary research for the advancement of knowledge and innovations in Information Systems Management
3. To foster striving for excellence and continuous self-development by BINUSIAN in digital technology advancement applied to Information System Management
4. To empower the Society with the latest knowledge, innovation and exemplary characters in Information System Management.

Program Objective

The objectives of the program are:

1. To provide students with IS best practices in order to empower them to become IS Leaders that can attain global competitiveness.
2. To provide students with advanced knowledge in IS for strategic advantage.
3. To provide students with technopreneur's skills in IS business who are able to leverage knowledge and technology.

Student Outcomes

After completing the study, graduates:

1. Able to formulate the theories on management information system to lead the innovation project solution based on recent trends and cutting-edge technologies in information system;
2. Able to improve corporate performance by analyzing decision making in order to implement information and communication technology in an integrated manner at the corporate level based on the latest technology to accurately assess applied information and communication at the corporate level;
3. Able to design information strategic at the corporate level based on the results of analysis and synthesis through the alignment of business, information systems and information technology from various corporate business models with an excellent governance;

4. Able to develop ideas and creativity in planning and developing digital business models based on information technology (Digitalpreneur).

Prospective Career of the graduates

MMSI graduates have the opportunity to get positions at some prestigious firms, such as Chief Information Officer (CIO), IS Function Division, Top Management, Consultant and System Integrator, IS Project Manager, IS/IT Product Manager, Senior IS/IT Risk Analyst, Senior IS/IT Auditors, Senior IS/IT Governance Analyst, Senior Enterprise System Architect, Senior Data Analyst/Scientist, Senior Business Analyst, Researcher, Lecturer, Technopreneurs.

Curriculum

The curriculum of the MMSI Study Program consists of a set of plans and arrangements related to the subject, content, study materials, lesson material, and delivery method, as well as assessment used as a guideline for implementing learning activities in Bina Nusantara University. This curriculum supports the development of graduates' competency standards. These are structured into the main competencies, general competencies, and others that support the achievement of the study goals, the implementation of the mission, and the realization of the vision of the MMSI Study Program. In addition, the curriculum includes a distribution of courses that support the achievement of graduate competencies and provide flexibility to students to broaden their knowledge and deepen their expertise according to their interests, as well as course descriptions, syllabi, lesson plans, and evaluations. In its design, the MMSI Study Program curriculum considers its relevance to the study goals, scope, and depth of the material, as well as the organization that encourages the formation of hard and soft skills that can be applied in various situations and conditions. Curriculum and materials are obtained from various sources, such as Ministry of Education and Culture (Kemendikbud) regulations and benchmarks with similar program curricula in various international institutions. There is input from prominent industries and alumni discussion sessions held by the MMSI Study Program.

MMSI Curriculum with an MMSI degree is specifically designed for scholars and IS practitioners who are interested in becoming ICT Leaders, both in the field of research and development and in performing their functions and roles as:

- Chief Information Officer (CIO) is a top leader in IS system who is an expert in managing, developing, and utilizing the IS corporation to win the competition;
- Technopreneur as an expert with an entrepreneurial spirit capable of evaluating, analyzing, and providing recommendations to develop an integrated IS architecture to improve corporate competitiveness.

Therefore, to prepare graduates who can achieve those abilities, the MMSI Study Program has two specializations in the curriculum, those are:

1. IS Strategic Management (ISSM)
2. Digitalpreneurship (DGP)

Each of the interests has the same general competence and support, but each specialization has a distinctive support competence. The explanation of the above-mentioned interests is as follows:

IS Strategic Management (ISSM)

Specialization of Information System Strategic Management (ISSM) is a program designed to prepare professionals who can plan strategic IS and design a blueprint of system strategic information for the company.

This specialization is focused on how to manage, develop, and utilize the functions of IS operational companies to win the competition.

This specialization is a program designed for those who are preparing to become leaders in the field of strategic ICT and professionals who already have managerial experience. This program supports those who want to deepen their knowledge of IS science and master the competencies associated with IS management. They will be experts in managing, developing, and utilizing Information System/Information Technology (IS/IT) resources to maintain the companies' competitiveness amid very tight competition in the globalization era. In this program, students are taught and trained to make strategic decisions in resource utilization to be a good and realistic application system. Also, the students are taught soft skills in the field of leadership and organization. In general, the program emphasizes strategic and analytical thinking methods needed by business leaders. Students will be challenged to not only understand theoretically but also how to solve business problems using real IS / IT support.

Digitalpreneurship (DGP)

Specialization of Digitalpreneurship (DGP) focuses on developing an entrepreneurial spirit capable of performing evaluation, analysis, and recommendation activities to develop an integrated IS/IT enterprise architecture to increase the company's business value. This specialization is a program designed for those preparing to become entrepreneurs mastering management science and strategic business.

The students are professionals with managerial experience and want to deepen the science of Technopreneur. Next, they will become leaders who can develop a business by utilizing the support of IS/IT to start opening a new business and mastering the competencies associated with making business plans, such as how to get business ideas, business analysis, market analysis, making financial cashflow, and Return on Investment (ROI) to start a business as Technopreneur.

The curriculum and materials delivered to the students should be reflected in the Course Outline (CO) of Learning Outcome (LO) and Graduate Competence, which has been determined by the MMSI Study Program. In delivering materials, lecturers are selected not only from the academicians having expertise in entrepreneurship but also from those who have experience in being practitioners, especially those who have a relationship with investors (venture capital) who want to provide capital to students who have a business idea that is visible, feasible to be financed, and can be implemented. The students will be leaders who will manage the business when starting an IS/IT business (startup).

Course Structure

SEMESTER 1

Course		SCU
ISYS8050042	Digital Business and Transformation	4
ISYS8036042	Business Intelligence and Analytics	4
RSCH8122042	Information Systems Research Methodology	4
Stream: Information Systems Strategic Management		
ISYS8055042	Information Systems Strategic Planning	4
Stream: Digitalpreneurship		
ENTR8017042	Digital Entrepreneurship and New Venture Creation	4
	Total SCU	**16**

SEMESTER 2

Course		SCU
RSCH8128042	Pre-Thesis	2
RSCH8189042	Research Writing I	1
Stream: Information Systems Strategic Management		
ISYS8056042	Information Systems Security and Risk Management	4
ISYS8054042	Information Systems Project and Change Management	4
Stream: Digitalpreneurship		
ISYS8053042	Service Oriented Enterprise and Innovation	4
ISYS8057042	Information Systems Investment, Valuation and Assets Management	4
	Total SCU	**11**

SEMESTER 3

Course		SCU
RSCH8190042	Research Writing II	1
Free Electives		4
RSCH8167042	Research Publication	4
RSCH8129042	Thesis	4
	Total SCU	**13**
	Cumulative SCU	**40**

Free Electives:

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

Appendix: Free Electives (3rd Semester)

No	Course Owner Department	Course Code	Course Name	SCU
1	Master of Computer Science	COMP8035041	Big Data Analytics	4
2	Master of Computer Science	COMP8047041	Business Intelligence and Analytics	4
3	Master of Computer Science	COMP8046041	Fundamental of Cyber Security	4
4	Master of Information Systems Management	ISYS8052042	Advanced Topics in Management Information Systems	4
5	Master of Industrial Engineering	ISYE8027045	Advanced Supply Chain and Operational Excellence	4
6	Master of Industrial Engineering	ISYE8023045	Advanced System Simulation and Modelling	4
7	Master of Communication	COMM8003043	Media Relation Strategy	4
8	Master of Communication	COMM8007043	Branding in Strategic Communication	4
9	Master of Communication	COMM8011043	Management of Media Convergence	4
10	Master of Accounting	ACCT8018044	Risk Management and Risk Decision Analytics	4
11	Master of Accounting	ACCT8008044	Cases on Forensic Accounting and Corporate Governance	4
12	Master of Design	ENTR8020067	Design Innovation in Business	4
13	Master of Design	DSGN8004067	Design for Sustainability	4

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