Master of Information System Management (MMSI)

Introduction

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

Vision

A world class Information System (IS) Graduate Program which creates IS Leaders and Technopreneurs who are able to leverage IS for business advantage.

Mission

The mission of Master of Information System Management are to:

1. Preparing outstanding visionary IS Leaders and Technopreneurs who are capable of facing the challenge of the future in Information System for quality of life improvement;
2. Providing an excellent advanced education/research and professional services in information system enterprise, recognized globally that attracts and retains talented and creative student body and faculty.

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 are:

1. Able to conduct system problem analysis and business processes in various corporate business models using a knowledge based repository with a mono, multi or interdisciplinary approach, either independently or in groups to be able to design, engineer, integrate information systems and implement information systems. based on the analysis results, the synthesis of various business models at the corporate level;
2. Able to conduct research on various corporate business models using a "knowledge based repository" with a mono, multi or interdisciplinary approach, either independently or in groups to be able to evaluate systems and improve productivity and quality of information systems at the corporate level in line with the latest technological developments;
3. Able to deepen theory using an interdisciplinary approach, to be able to improve the security and risk management of Information Systems and Information Technology at the corporate level;
4. Able to plan, implement, and monitor information system development projects with changing management conditions in an effort to increase productivity and information quality at the corporate level;

5. Able to plan Strategic Information Systems and design an integrated Enterprise Architecture at the corporate level based on the results of analysis and synthesis through the alignment of business strategies and Information Systems and Information Technology strategies from various corporate business models.;
6. Able to manage data that is a company asset with Business Intelligence into more meaningful information in decision making (Data Analysis) and be able to implement Information and Information and Communication Technology governance with the appropriate framework and evaluate the maturity level of Information and Information and Communication Technology management in an integrated manner at the corporate level based on the latest international quality standards framework so as to improve corporate performance;
7. Able to deepen the application of theories and alternative solutions for electronic business development (e-business theory), managerial skills in information system investment management, accurately assess applied information and communication technology investments at the corporate level;
8. Able to develop ideas and creativity in planning and developing electronic business models based on application systems and Information Technology (Technopreneur) which are applied at the personal and corporate level.

Prospective Career of the graduates

MMSI graduates have the opportunity to get positions at some prestigious firms, such as the IS Function Division, Top Management, Consultant and System Integrator, IS Project Manager, and Business Analyst.

Curriculum

The curriculum of MMSI Study Program consists of a set of plans and arrangements related to the subject, content, study materials, lesson material and the delivery method, as well as assessment used as a guideline for the implementation of learning activities in Bina Nusantara University. This curriculum supports the development of graduates' competency standards which 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 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 in accordance with their interests, as well as with course descriptions, syllabus, lesson plans and evaluation. In its design, the MMSI Study Program curriculum considers the curriculum's relevance to the study goals, scope and depth of the material, the organizing that encourages the formation of hard skills and the 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, benchmarks with similar program curricula in various international institutions, as well as input from some prominent industries and alumni discussion sessions held by MMSI Study Program.

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

Therefore, to prepare graduates who are able to achieve those abilities, the MMSI Study Program has 2 specializations in the curriculum, those are:

1. IS Strategic Management (ISSM)
2. Technopreneurship (TE)

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 have the ability to plan strategic IS and to design a blue print 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, and they want to deepen the IS science and also 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 in the midst of a very tight competition in the globalization era. In this program, students are taught and trained to make some strategic decisions in resource utilization to be a good and realistic application system. Also, the students are also 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.

Technopreneurship (TE)

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

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

The curriculum and materials that will be delivered to the students should be reflected in the Course Outline (CO) of Learning Outcome (LO) and Graduate Competence which has been determined by MMSI Study Program. In delivering materials, lecturers are selected not only from the academicians having expertise in entrepreneurship, but also from those who have to experience in being practitioners, especially those who have 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 in starting a new business (*Startup*).

Course Structure

SEMESTER 1

1st Period

Course		SCU
ISYS8033	Services Oriented Enterprise	4
MGMT8046	Project and Change Management	4
	Total SCU	**8**

2nd Period

Course		SCU
RSCH8086	IS Research Methodology	4
Streaming : IS Strategic Management		
ISYS8034	Digital Business and E-Commerce Management	4
Streaming : Technopreneurship		
ENTR8006	Entrepreneurship and New Venture Creation	4
	Total SCU	**8**

SEMESTER 2

1st Period

Course		SCU
ISYS8035	Advanced Enterprise Architecture	4
MGMT8047	Advance Topic In MIS	4
RSCH8087	Pre Thesis	0
	Total SCU	**8**

2nd Period

Course		SCU
ISYS8036	Business Intelligence and Analytics	4
Streaming : IS Strategic Management		
ISYS8037	Emerging ICT Issues and Valuation	4
Streaming : Technopreneurship		
ENTR8007	Social Networks and Engagements	4
	Total SCU	**8**

SEMESTER 3

1st Period

Course		SCU
ISYS8038	IS Security and Risk Management	4
RSCH8083	Thesis (Colloquium)	2
	Total SCU	**6**

2nd Period

Course		SCU
RSCH8085	Thesis	4
	Total SCU	**4**
	Cumulative SCU	**42**