Master of Information Technology

Introduction

It is expected the graduates of Information Technology Study Program have competency as a leader with vision and future insight, able to design and apply information technology that will improve work performance of organization.

It emphasizes on following aspects:

1. Advise
   Able to provide an input about products, services, strategy and structure organization, particularly regarding to technical competency of Information and Communication Technology (ICT).
2. Value/Assess
   Doing research on products, copy rights, facilities and human resource in context of organization business and the possibility of new potential business.
3. Vision
   Building a vision about possible technology and its impact to organization business area, and how to using the benefit with its changes.
4. Communicate
   Communicating organization vision to staff to support the change and increasing organization's profit.
5. Manage
   Managing the development and operational of ICT division to supporting utilization of technology for organization and preparing the expert to new technology.
6. Innovate
   Get involved into research and product development directly, especially for creative process and its utility evaluation.

Supplies for the Post-Graduate Study Program consist of two aspects: information technology and business knowledge where it is expected that the graduates will have a commanding view to the process and performance of business corporate. The supply focuses on information technology referring to research, management and latest technology update.

Process management in development of information technology is the core of subject given, including IT Services, IT Strategic Management, IT Strategic Planning, Advanced Software Engineering, and Information Integration Technology. Technical aspect which has become new trend, such as Service Oriented Architecture, Open Source Architecture, Web/Mobile Technology and Network Issue turn into varieties in delivering the materials.

Vision

A world class ICT Graduate Program which delivers visionary and innovative leaders in the advancement of ICT knowledge and applications.

Mission

The mission of Master of Information Technology is to contribute to the global community through the provision of world-class education by:

1. Preparing outstanding visionary ICT leaders for industry and government which are capable in facing the challenge of the future in Information Communication Technology

2. Providing an excellent advanced education/research and professional services in information technology, recognized globally, that attracts and retains a talented and creative student body and faculty.
3. Generating innovative technologies leading to new products and improved business processes, thus enhancing the quality of life.

Program Objective

The objectives of the program are:

1. To provide students with ICT best practices in order to increase their competitive advantage by applying the leading technologies.
2. To provide students with advanced knowledge in innovation, technology, and leadership in order to pursue efficient as well as effective business processes.
3. To provide students with international experience in research and development in order to improve humanity as well as environmental aspects.

Student Outcomes

After completing the study, graduates are:

1. Able to propose solutions to the problems with implementing the Information and Communication Technology in a dynamic and complex environment in the form of innovative work tested through the research and development of information technology in accordance the scientific study and professional practice .
2. Able to develop software application to solve the problems that can be solved with Information and Communication Technology in the complex and dynamic environment using inter and multidisciplinary research approach.
3. Able to develop methods and Information and Communication Technology research using inter and multidisciplinary approaches to produce tested innovative work and commercialized applicative potential in the information technology field.
4. Able to analyze and design the blueprints of Information Technology and Communication and Information Technology infrastructure management and effective communication based on a scientific study and professional practice
5. Able to plan and implement the Information and Communication Technology projects using effective information technology project management knowledge based on the principles of good governance
6. Able to develop science and Information and Communication Technology using artificial intelligence method to produce innovative products that can be applied in various fields.
7. Able to develop science and Information and Communication Technologies using governance method of the infrastructure network to produce blueprint strategy and Information and Communication Technology in an organization with a service-oriented approach
8. Able to develop science and Information and Communication Technology using latest data processing and the information methods to produce knowledge that can be used to win the global competition

Prospective career of the graduates

Master of Management Information System graduates have the opportunity to fill positions at prestigious firms such as IT Leader, IT Innovator, IT Business Creator, IT Consultant, IT Solution and System Integrator, IT Project Manager, IT Lecturer.

Course Structure

SEMESTER 1

Periode 1

Course Name	SCU
COMP8005 – IT Services	3
COMP8011 – Advanced Database Systems	3
COMP8009 – Advanced Software Engineering	3

Periode 2

Course Name	SCU
ISYS8001 – IT Project Management	3
RSCH8052 – IT Research Methodology	3
COMP8006 – Services Oriented Architecture	3

SEMESTER 2

Periode 1

Course Name	SCU
COMP8008 – IT Risk Management and Disaster Recovery	3
COMP8024 – IT Security	3
RSCH8004 – Pre Thesis	0

Periode 2

Course Name	SCU
MOBI8001 – Mobile Technology & Cloud Computing	3
RSCH8057 – Thesis (Colloquium)	0
Stream: Information engineering	
COMP8014 – Knowledge Data Discovery	3
Stream: IT Infrastructure Management	
ISYS8003 – IT Strategic Planning	3

SEMESTER 3

Periode 1

Course Name	SCU
RSCH8058 – Thesis (Research Result Examination)	0
Stream: Information Engineering	
COMP8025 – Big Data Analytics	3
COMP8015 – Multimedia Indexing and Retrieval	3
Stream: IT Infrastructure Management	
COMP8026 – Enterprise Architecture	3
CPEN8003 – Network Governance	3

Periode 2

Course Name	SCU
RSCH8059 – Thesis (Final Defense Examination)	6