

## UNDERGRADUATE PROGRAM

- Program name: Management Information System
- Level of training: Undergraduate
- Major/curriculum: Management Information System
- Form of training: Full-time
- Major/curriculum code: 7.34.04.05

<b>LEARNING OUTCOME STANDARDS</b>	
<b>1</b>	<b>PROFESSIONAL KNOWLEDGE AND REASONINGS OF THE MIS PROGRAM</b>
<b>1.1</b>	<b>BASIC SCIENCE KNOWLEDGE RELATED TO THE MIS PROGRAM</b>
1.1.1	Mathematics
1.1.2	Information technology
1.1.3	Economics
1.1.4	Management
1.1.5	Laws
1.1.6	Knowledge of politics, society and psychology
<b>1.2</b>	<b>FUNDAMENTAL KNOWLEDGE OF THE MIS PROGRAM</b>
1.2.1	Models for organizing, storing, processing and exploiting data
1.2.2	Information technology infrastructure
1.2.3	Programming techniques
1.2.4	Systems Design and Analysis Methods, Modeling Language
1.2.5	Management accounting
1.2.6	Management information systems
1.2.7	Ecommerce
1.2.8	The technology foundations of Industry 4.0
<b>1.3</b>	<b>SPECIALIZED KNOWLEDGE OF THE MIS PROGRAM</b>

1.3.1	Business application development and platform management of industry 4.0
1.3.2	Models and Database Management Systems
1.3.3	Business processes and management
1.3.4	Models that integrate business processes with information systems
1.3.5	Decision support models based on data analysis
1.3.6	Information system security
1.3.7	Information system development strategy
<b>2</b>	<b>SKILLS, PERSONAL AND PROFESSIONAL QUALITIES</b>
<b>2.1</b>	<b>MIS REASONING AND PROBLEM SOLVING</b>
2.1.1	Estimation and Qualitative Analysis
2.1.2	Modelling
2.1.3	Analysis With Uncertainty
2.1.4	Form a problem solving strategy (Problem Identification, Framing and Closing)
<b>2.2</b>	<b>EXPERIMENTATION AND KNOWLEDGE DISCOVERY</b>
2.2.1	Principles of Research and Inquiry
2.2.2	Use survey techniques
2.2.3	Experimental Inquiry
2.2.4	Accessing and exploiting effectively means - new technology.
2.2.5	Hypothesis Test, and Defence
<b>2.3</b>	<b>SYSTEMS THINKING</b>
2.3.1	Thinking Holistically
2.3.2	Emergence and Interactions in Systems

2.3.3	Trade-offs and Balance
<b>2.4</b>	<b>PERSONAL SKILLS AND ATTITUDES</b>
2.4.1	Initiative and Willingness to Take Risks
2.4.2	Perseverance, and Flexibility
2.4.3	Creative Thinking
2.4.4	Critical Thinking
2.4.5	Personal Inventory
2.4.6	Curiosity and Lifelong Learning
2.4.7	Time and Resource Management
<b>2.5</b>	<b>PROFESSIONAL SKILLS AND ATTITUDES</b>
2.5.1	Professional Ethics, Integrity, Responsibility and Accountability
2.5.2	Professional Behaviour
2.5.3	Proactively Planning for One's Career
2.5.4	Update knowledge and information in the field of business and management information systems
2.5.5	The ability to integrate, accept differences and fairness
2.5.6	Staying Current on World of MIS
<b>3</b>	<b>Teamwork and communication skills</b>
<b>3.1</b>	<b>TEAMWORK SKILLS</b>
3.1.1	Technical Teaming
3.1.2	Multi-disciplinary teamwork skills
3.1.3	Multicultural teamwork skills
3.1.4	online team

3.1.5	Work with different types of groups
<b>3.2</b>	<b>COMMUNICATION SKILLS</b>
3.2.1	Electronic/Multimedia Communication
3.2.2	Oral Presentation and Inter-Personal Communications
3.2.3	Negotiation, compromise and conflict resolution in a global environment
3.2.4	social intelligence: connect different people to communicate, probe and predict work response
<b>3.3</b>	<b>COMMUNICATION IN A FOREIGN LANGUAGE</b>
3.3.1	Communication in English (TOEIC 4 skills: Listening - reading 500; Speaking - writing 221 or other equivalent certificates)
<b>4</b>	<b>CONCEIVING, DESIGNING, IMPLEMENTING, AND OPERATING PRODUCTS, PROCESSES &amp; SYSTEMS</b>
<b>4.1</b>	<b>SOCIAL, ENVIRONMENT AND OTHER BACKGROUNDS OUT OF THE SYSTEM</b>
4.1.1	Roles and Responsibility of bachelor of information systems
4.1.2	Understand the Impact of MIS to social and Cultural Context
4.1.3	Understand How MIS is Regulated
4.1.4	Knowledge of Historical and Cultural Context
4.1.5	Developing a Global Perspective
<b>4.2</b>	<b>ENTERPRISE AND BUSINESS CONTEXT</b>
4.2.1	Appreciating Different Enterprise Cultures
4.2.2	Enterprise Strategy, Goals, and Planning
4.2.3	Identify business opportunities through implementation and operation of information systems
4.2.4	Technical entrepreneurship

4.2.5	Working successfully in Organizations
4.2.6	Developing new technologies
4.2.7	financial management and control problems
<b>4.3</b>	<b>CONCEIVING</b>
4.3.1	Setting System Goals and Requirements
4.3.2	Forming MIS solution idea and modeling system
4.3.3	Defining Function, Concept and Architecture
4.3.4	Modelling of System and Insuring Goals Can Be Met
4.3.5	Project Management
<b>4.4</b>	<b>DESIGNING</b>
4.4.1	The Design Process
4.4.2	The Design Process Phasing and Approaches
4.4.3	Design future business processes
4.4.4	Information technology infrastructure design
4.4.5	Database design
4.4.6	Design of processing processes, communications and processing rules
4.4.7	Design quality governance rules, installation, monitoring and testing, system safety, system security, system development
<b>4.5</b>	<b>IMPLEMENTING</b>
4.5.1	Planning for System building planning
4.5.2	Designing and Modelling of the Implementation Process
4.5.3	Use programming languages, development tools, and project administration
4.5.4	Hardware Software Integration
4.5.5	Test, Verification, Validation, and Certification

<b>4.6</b>	<b>OPERATING</b>
4.6.1	Modelling, Designing and Optimising Operations
4.6.2	Training and Operations
4.6.3	Supporting the System Lifecycle
4.6.4	Operations Management
4.6.5	System Improvement and Evolution