

Faculty of Sciences and Engineering (FSE)

Bachelor of Science in Business Information System (B.Sc. in BIS)

I. Why Choose this Program?

Information Communication Technology is one of crucial tools to help businesses growth and stay competitive. As you are already aware, not only large corporations, but small and medium enterprises now start to automate their operations in order to stay strong in the competitive environment. They start to use accounting systems, inventory systems, point of sale, website, online applications, mobile applications, and/or network system, etc. for their business. This can be implied that more IT services are needed.

Who can create IT solutions for businesses? Only those who have IT skills with knowledge of the business concept or you need to hire another person who knows such a computerized business concept.

II. Future Career Prospects

Graduates from this program will be able to pursue careers such as:

1. **Software Developer:** Creating Software Solution for Businesses such as Inventory System, Accounting System, Point of Sale (POS), Customer Relationship Management (CRM), Restaurant Management System, etc.
2. **Website Designer & Developer:** Creating Websites and Online Application such as E-Commerce, Online Marketing Website, News Website, etc.
3. **Network System Administrator:** Creating, Configuring, and Securing Network System.
4. **IT Support Technician:** Troubleshooting Computer Problem, Computer Network Problem, and Providing User Assistant.
5. **IT Consultant:** Because you have both knowledge, IT and Business, you can choose or innovate an effective solution for business needs.
6. **Run Your Own Startup.**

III. Course Structure

The four-year program consists of **120 credits** and is structured to provide students with a comprehensive academic foundation through a well-balanced curriculum of foundation, functional, pre-major, and major courses.

To fulfill the graduation requirements, students must successfully complete the following coursework:

YEAR 1		
Course Title	Credits	Priority
English I: Reading and Composition with Laboratory	4	Required
Gender Studies	3	Required
Khmer Studies	3	Required
Digital Literacy + Lab	4	Required
English II: Reading and Composition with Laboratory	4	Required
History of Cambodia	4	Required
Environmental Science	3	Required
Introduction to Political Science	3	Required
YEAR 2		
Course Title	Credits	Priority
Linea Algebra	4	Required
Introduction to Technology and Innovation	3	Required
Personal Growth and Development	4	Required
Python Programming	3	Required
Multimedia and Web Design	3	Required
Database Design	3	Required
Management Principles	3	Required
Financial Accounting I	3	Required
Logic and Critical Thinking	3	Required
YEAR 3		
Course Title	Credits	Priority
Statistics for Science	3	Required
Data Communication and Networking	3	Required
Introduction to IoT	3	Required
Financial Accounting II	3	Required
Object Oriented Programming	3	Required
Introduction to Ethics	3	Required

Cloud Computing	3	Required
Network System Administration	3	Required
Computer Program II	3	Required
Database Management System	3	Required
YEAR 4		
Course Title	Credits	Priority
Introduction to Cyber Security	3	Required
Web Application Development	3	Required
UI/UX Design	3	Required
Fiscal Legislation and Taxation	3	Required
Mobile Application Development	3	Required
E-Commerce Design and Development	3	Required
AI and Machine Learning	3	Required
Digital Product Innovation & Entrepreneurship	3	Required
Software Engineering	3	<i>Elective</i>
Blockchain and Distributed Ledger	3	<i>Elective</i>
Big Data Technologies	3	<i>Elective</i>
Computer Vision	3	<i>Elective</i>
Data Analysis and Visualization	3	<i>Elective</i>

***Note:** Students need to choose **ONE** elective course.

GRADUATION PATH		
Option I: Senior Project	6	Required
Option II: Internship	6	Required
Option III: Exit Exam	6	Required

***Note:** Graduation Path: Students choose only **ONE** option.