



College of Computer and information system

Levels of certificates:

- Courses
- Diploma
- Advanced Diploma
- Certified Expert
- Certified Advisor
- MINI MBA
- MINI DBA
- Professional Bachelor
- Professional Master
- Professional doctorate

Objectives:

- Able to provide learners with a detailed insight into the systems analysis life cycle, modeling tools and techniques, testing procedures and the need for systems evaluation
- To understand of the general principles and concepts of programming should underpin some of the basic knowledge that learners need.
- To deliver a nature of Understanding of Computer technology in accordance with management information theories Learning Outcomes for the Course

Specialization:

- ✓ Introduction and Principles
- ✓ Expert-Knowledge-Based Systems
- ✓ Applications and Development
- ✓ Languages
- ✓ Applications in:
 1. Business and Finance
 2. Education
 3. Industry
- ✓ Hardware
- ✓ Software Environment
- ✓ Future Directions

Telecommunications

- ✓ Data Communications
- ✓ Computer Network, Design and Protocols
- ✓ Digital Signal Processing

Specialization

- ✓ Graduate students for the MS or PhD degree programs may specialize in one of the following:
 - ✓ Computer Engineering
 - ✓ Computer Science
 - ✓ E-Commerce
 - ✓ Security & Encryption
 - ✓ Database Management
 - ✓ Networking
 - ✓ Computer Simulation
 - ✓ Hardware Engineering

First Class	Second Class
<p><u>First Semester</u> English Language (1)- IT Introduction to Information Technology Introduction to Web Technology Introduction To Computers - IT Programming Techniques (1)</p> <p><u>Second Semester</u> Mathematics (1) Mathematics (2) Probability and Statistics Physics (1) Physics (2) Creative and Scientific Thinking - IT</p>	<p><u>First Semester</u> Information Economy Information Ethics Programming Techniques (2) Programming Techniques (3) Discrete Mathematics</p> <p><u>Second Semester</u> Electronics Automata Models Systems and Operations Research Algorithms and Data Structures Numerical Methods</p>

Third Class	Fourth Class
<p><u>First Semester</u> Software Engineering (1) Computer Organization (1) Operating Systems Database Systems Computer Networks (1) Computer Graphics</p> <p><u>Second Semester</u> Web Engineering (1) Human Computer Interaction Modeling and Simulation Computer Organization (2) Software Engineering (2)</p>	<p><u>First Semester</u> Intelligent Databases Language Engineering Computer Networks (2) Multimedia and Virtual Reality Web Engineering (2)</p> <p><u>Second Semester</u> Mobile and Sensor Networks Information Assurance and security Integrated Information Systems Web Engineering (3) Project (1) Project (2)</p>

Fifth Class
<p><u>First Semester</u> Data Mining Artificial Intelligence Neural Networks VHDL Optical Networks</p> <p><u>Second Semester</u> Three Dimensional Graphics Mobile Internetworking Protocol Microprocessors and Interfacing Report Writing and Presentation-IT Human Rights and Ethics-IT</p>