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Introduction and Mission

Information Technology is the lifeblood of modern organizations. Technology is also a major driving force for innovation in many of the leading sectors of the economy. The work of information technology professionals is of great importance for the efficiency and productivity of today’s workforce.

The College of Technological Innovation (CTI) seeks to produce graduates recognized by business, government, and educational institutions in the United Arab Emirates, the Gulf Region, and the rest of the world, for offering a sound, modern, and comprehensive education in the innovative application of information technology. It also seeks to develop a strong applied research capacity in emerging technologies directed towards meeting the IT needs of the Gulf region.
LEARNING OUTCOMES

The College of Technological Innovation has six Major Learning Outcomes (MALOs) reflect Zayed University’s Learning Outcomes. These are:

• **Critical Thinking and Quantitative Reasoning in IT:** Graduates from the College of Technological Innovation will be able to use critical thinking and quantitative processes to identify, analyze, and solve problems and evaluate solutions in an IT context.

• **Information Technology Application:** Graduates from the College of Technological Innovation will be able to select existing and cutting-edge IT tools and procedures to develop modules and systems.

• **Information Technology Management:** Graduates from the College of Technological Innovation will be able to assess and determine information resource requirements to develop solutions suitable for IT and business managers operating in a multinational and multicultural environment.

• **Information Technology Professional Practice:** Graduates from the College of Technological Innovation will be able to work effectively in individual and group situations, understand how groups interact, assume a leadership role when required, and understand the fundamentals of professional and ethical conduct.

• **Information Technology Systems Theory and Practice:** Graduates from the College of Technological Innovation will be able to understand and communicate the fundamentals of systems theory in the development of appropriate systems that function in a global environment.
• **Technical Communication (Bilingual):** Graduates from the College of Technological Innovation will be able to express themselves effectively and efficiently in both English and Arabic while using the correct IT terms for each language.

**CURRICULUM**

The College of Technological Innovation major is made up of core IT courses, specialization courses, and elective courses. Students who graduate from the College of Technological Innovation have the ability to adapt to rapid change and the capacity to identify, implement and integrate new applications into existing Computer systems.

**UNDERGRADUATE DEGREES**

The College of Technological Innovation offers a Bachelor of Science in Information Technology (with specializations in Security and Network Technologies or Enterprise Computing), a Bachelor of Science in Information Systems and Technology Management (joint degree with the College of Business), a Bachelor of Science in Technology and Education (joint degree with the College of Education), and a Bachelor of Science in Multimedia Design (joint degree with the College of Arts and Creative Enterprises, and the College of Communication and Media Sciences.)

**A) Bachelor of Science (B.S) in Information Technology**

Specialization in Security and Network Technologies: This specialization prepares students to protect and secure information systems from threats and attacks. Students also learn to apply IT in the design and development of secure computer networks and telecommunications.
Specialization in Enterprise Computing: This specialization prepares students to apply their IT knowledge and skills in government and private sector organizations in an informed fashion that enhances the enterprise or the organization.

**B) Bachelor of Science (B.S) in Information Systems and Technology Management (Joint with the College of Business)**

This degree focuses on the knowledge and skills needed to manage and apply IT to the computing requirements and enterprises. It prepares students for professional positions in technology management and information systems, all of which is needed in the UAE in both the government and the private sectors.

**C) Bachelor of Science (B.S) in Technology and Education (Joint with the College of Education)**

This degree focuses on acquiring the knowledge and skills needed to manage an IT laboratory and serve as a resource for the use of educational technology. It can also prepare students for professional positions in computer-based education and training.

**D) Bachelor of Science (B.S) in Multimedia Design (Joint with the College of Arts and Creative Enterprises and the College of Communication and Media Sciences)**

This degree focuses on acquiring the knowledge and skills in IT, public media, and the arts to meet the growing demand of UAE employers for multimedia graduates with broad range of expertise. It prepares students for professional positions in managing and developing interactive multimedia systems.
MINOR IN INFORMATION SYSTEMS
This minor is designed to help students better understand where and how to apply and use information technology in organizations related to their chosen field (major).

MINOR IN INTERACTIVE SOCIAL COMPUTING
This minor is designed to help students better understand the rapidly growing (and popular) use of information technology in their personal computing lives.

COURSES OFFERED
CIT 210: Introduction to IT and Systems
CIT 215: Computing Foundations
CIT 225: Introduction to Programming and Problem Solving
CIT 235: Information Security Basics
CIT 245: Web Development
CIT 255: Networks and Telecommunications
CIT 261: Enterprise and Information Systems Foundations
CIT 295: Independent Study
CIT 300: Technical Writing
CIT 301: Technical Writing (Arabic)
CIT 305: IT in Global and Local Cultures
CIT 306: IT in Global and Local Cultures (Arabic)
CIT 315: Operating Systems Administration
CIT 320: Programming and Program Solving
CIT 325: Applied Programming
CIT 330: Ethical Hacking and Countermeasures
CIT 335: Information Security Technologies
CIT 340: Computer Graphics
CIT 345: Multimedia Systems
CIT 346: Dynamic Web Development
CIT 350: Communication Networks I
CIT 355: Communication Networks II
CIT 360: Management of Information Systems
CIT 361: Enterprise Systems
CIT 362: IT in Logistics and Supply Chain
CIT 365: Database Systems
CIT 371: Mobile Computing
CIT 372: Cloud Computing
CIT 375: Human Computer Interaction
CIT 376: Game Development
CIT 377: IT Project Management
CIT 378: Geographical Information Systems
CIT 380: IT Entrepreneurship I
CIT 395: Independent Study
CIT 400: Green Computing
CIT 430: Information Security Management
CIT 450: Communication Networks III
CIT 460: Systems Analysis/Design/ Implementation
CIT 463: Enterprise Systems Development
CIT 465: Knowledge Management
CIT 467: Enterprise Applications
CIT 470: Applied Database Systems
CIT 490: Internship
CIT 491: Research Methods
CIT 492: IT Infrastructure- Emerging Technologies
CIT 495: Independent Study
CIT 497: Special Topics in Information Technology

ADMISSION TO ZAYED UNIVERSITY

UAE National Applicants
To be considered for admission, all National applicants must possess a valid UAE passport, valid UAE National Identity Certificate and UAE ID.
Applicants from a high school following the U.A.E. curriculum must have 12 years of school and an attested General School
Leaving Certificate, a minimum 70% average in academic subjects, a minimum CEPA English score of 150, and a CEPA Mathematics score (no minimum score is currently required).

**Applicants from a high school following an International curriculum must have 12 years of school:** GCSE/IGCSE must complete five subjects at the ordinary level and two subjects at the GCE Advanced Subsidiary or Advanced level, with a passing grade in each subject. **International Baccalaureate** must successfully complete five subjects.

**If you are currently in high school, or have completed high school this year:** Submit a completed application form with all documentation attached and Zayed University selected as your primary choice of institution to the National Admissions and Placement Office (NAPO). Applications are submitted online at [http://www.napo.ae](http://www.napo.ae)

**International Applicants**
Zayed University also welcomes applications from International students. For more details about admission requirements and application forms for International students, please visit: [http://www.zu.ac.ae/main/en/enroll/international.aspx](http://www.zu.ac.ae/main/en/enroll/international.aspx)

**The Academic Bridge Program (ABP):** Success at Zayed University requires proficiency in both Arabic and English languages. Students admitted to the University are initially placed either directly into the baccalaureate program or into the Academic Bridge Program. This placement depends primarily upon each student's proficiency in English as measured by the Common Educational Proficiency Assessment (CEPA) exam administered by the National Admissions and Placement Office (NAPO) in the Ministry of Higher Education and Scientific Research. Students initially placed into the ABP progress into University College and the baccalaureate program only once they successfully complete the Academic Bridge Program exit requirements and achieve the required level of English proficiency (overall band score of 5.0 or greater) as measured by the International English Language Testing Service (IELTS) exams.

**University College (UC):** University College is responsible for delivering Zayed University's general education program, organized as the Colloquy on Integrated Learning, The Colloquy Program initiates the baccalaureate
careers of all Zayed University students. University College offers the high quality foundational education, the Colloquy on Integrated Learning, to all Zayed University students. It prepares them for their future majors and eventual employment. The experience instills in them a desire for lifelong learning, fosters intellectual curiosity, and engenders critical thinking.

Zayed University Undergraduate Program Model:

ADMISSION TO THE MAJOR

The College of Technological Innovation requires that applicants fulfill the following requirements for acceptance:

- Satisfactory completion of 42 semester credit hours or more;
- Attainment of a cumulative GPA of 2.0 or higher;
- Achievement of C- or better grades in COL 110, COL 111, COL 140, COL 145, and COL 240; and
- Achievement of passing grades in COL 105, COL 120, COL 130, COL 135, COL 150, COL 155, COL 165, COL 230, COL 250, COL 260, and COL 270.

(COL 260 and COL 270 may be scheduled for semester three, four, or five.)

INTERNSHIP

The College of Technological Innovation provides students with a real-world work experience during their last academic year. They earn six hours of academic credits for their internship. Students gain hands-on work experience that can give them a decisive edge in a competitive job market. It is an opportunity for the students to gain self-confidence by validating their academic knowledge and qualifications in their area of specialization. Internship provides a platform for students to interact with industry professionals and create valuable career networking opportunities.
GRADUATION REQUIREMENTS

The graduation requirements for the College of Technological Innovation include the completion of the eight-semester curriculum plan with a minimum GPA of 2.00, including the internship (CIT 490) and the senior culminating course (CIT 380) as well as achievement of the Major Learning Outcomes.

To receive the degree in Information Technology, students must also receive approval of their portfolio by a faculty committee. A grade of C or higher is required in each CIT course that is taken as a prerequisite for another required CIT course.

GRADUATE PROGRAMS

The College of Technological Innovation currently offers one Master’s program.

A) Master of Science (M.S.) in Information Technology:

Specialization in Cyber Security: This program is designed to prepare qualified graduates to take on leadership roles in information security and computer prevention within the private and public sectors.

The College of Technological Innovation also offers three graduate certificates: a Graduate Certificate in High Technology Crime Investigation, a Graduate Certificate in Information Security, a Graduate Certificate in E-Archive and Information Management (Joint with The Library and Learning Commons).

OUTREACH AND ENGAGEMENT

The College of Technological Innovation participates in an extensive array of outreach and engagement activities coordinated by the Institute for Community Engagement. College faculty have worked on projects with law enforcement and national security agencies in providing advanced training in cyber security and digital forensics. The College provides expertise to universities and secondary schools in the field of Information and Communication Technologies (ICT). The College collaborates with industry leaders on providing certifications in the field of enterprise solutions to a variety of medium to large organizations.

RESEARCH

The faculty in the College of Technological Innovation excels in linking teaching and research; they promote active learning within their research. Students are encouraged to undertake research and publish their work in local and international conferences, by jointly working with faculty. The College provides advanced computing facilities for supporting and sustaining a research culture aligned to the needs of the UAE. Areas of research include Digital Forensics, Human-Computer Interaction (HCI),
Enterprise Systems, Mobile Computing and Network Technologies such as wireless and sensory networks. The College hosts an annual international undergraduate research conference, widely attended by students from Universities in the Middle East region.

**ACCREDITATION**

Zayed University is accredited by the Middle States Commission on Higher Education (USA), which assures internationally recognized programs from a quality-assured university. Information Technology programs in the College of Technological Innovation have also been accredited since 2010 from the USA-based Accreditation Board for Engineering and Technology (ABET), under the Computing Accreditation Commission (CAC).