FACULTY OF COMPUTERS & INFORMATION TECHNOLOGY

YOUR PLACE ... YOUR PURPOSE

The temple of Hatshepsut near Luxor in Egypt

Dean's Welcome Note

E. Sarhan

Professor
Ebada Sarhan

Dean,
Faculty of
Computers and Information Technology

I am pleased to welcome you to the Faculty of Computers and Information Technology (FCIT). Our institution adopts the NCF in ICT, where our graduates will be able to join the market with a variety of training experiences. These programs are amazingly essential in our lives.

Almost every piece of current life involves information and communication technology such as smart phones, tablets, TVs, smart watches, personal computer, navigation systems, cars, gaming, security and medical services. Our world needs more digital rather than analog. The FCIT will provide the future so, be a student at FCIT and get full understanding of amazing subjects and arm yourself with the skills and technologies under the mission statement to have a challenging a tough but exciting career ahead of you.

Our main goal is to train students to cope with and improve on the ever-evolving discipline of computer and Information Technology and the latest technologies in software and hardware systems.

FUE offers an exceptional education, great people, and a productive time.

Is "Computers & Information Technology" for me?

Choosing the right career is a key decision in achieving a happy and fulfilling life. Think carefully and choose wisely. "Computers & Information Technology" might be your right choice if you:

- Enjoy using and comparing the latest computer programmes and software applications.
- Like math, programming or physics.
- Have an innate curiosity about how things work.
- Like problem solving and possess the ability to think logically.
- Enjoy working with teams and diverse individuals with different skills.
- Enjoy tackling challenging technical problems.

If you agree with above fundamentals then the answer is "Yes"; "Computers & Information Technology" is the right choice for you.


PERSPECTIVE VIEW
START-UP
www.

Faculty overview

The Faculty of Computers and Information Technology offers three programs: Computer Science, Digital Media Technology and Information Systems.These programs are designed according to the Egyptian National Competence Framework (NCF) in ICT within these programs, students study specific disciplines such as: database design and implementation, software development, system analysis and design, software engineering and Multimedia.

FUE adapts to the rapidly changing technological world by continually developing and updating its educational programs. We realize that to be effective we must improve the awareness, understanding, development, and successful utilization of Digital Media Technologies and Information Systems. The faculty examines theoretical and experimental design components of computers and computation. FUE's undergraduate degree provides the student with essential skills and theoretical background in computer technology. The student will study the latest software technologies. Our students benefit from an outstanding academic staff.

MISSION AND VISION

Our Mission

Attaining a premium position in the field of computing and informatics on the national and international levels.

Our Vision

The Faculty of Computers and Information Technology - Future University in Egypt - abides by providing an enabling environment for the preparation of distinguished graduates who keep abreast of technological development and labor market requirements, producing innovative scientific research that achieves excellence for the university in local, regional and global ranking, and participating effectively in sustainable social development in accordance with core professional ethics and values.

Educational Opportunities

The Faculty of Computers and Information Technology strives to:

- Introduce students to a wide variety of computer science topics with in depth concentration in one or more selected areas.
- Prepare students to communicate successfully, think critically and work both independently and in teams.
- Motivate students to pursue graduate studies and pursue lifelong learning.

Faculty Strategic Aims:

- Develop the existing programs and develop distinguished programs according to the latest developments and requirements of the labor market.
- Effective teaching and evaluation systems that support the creative abilities and sustainable professional development of students and graduates.
- Ensure the adequacy and efficiency of research production of the college.
- Support excellence and innovation in research activities.
- Provide excellent community services that contribute effectively to sustainable development.
- Achieve a distinguished partnership with local and foreign institutions to develop the various activities of the college.
- Ensure the adequacy and efficiency of material resources to achieve benchmarking.
- Ensure the quality of human resources performance.
- Attract the best students at the local and regional levels to study at the college.
- Consolidate the core values and ethics of the college community.

Faculty Core values:

- Transparency and Credibility.
- Mutual Respect.
- Appreciation of Innovation.
- Commitment and Accountability.
- Social Responsibility.
- Teamwork.
- Equality and Non-discrimination.
- Academic Integrity.
- Continuous Development and Advancement.

FUE Educational Philosophy

All faculties, including the Faculty of Computers and Information Technology, embrace the university's mission to "promote an atmosphere that values intellectual curiosity, the pursuit of knowledge, and academic freedom and integrity." To achieve this mission, certain pillars of an FUE education are embedded in the curriculum of all faculties. These competencies or "pillars of an FUE education include the following:

- Critical Thinking: objective analysis and evaluation of information and concepts from multiple perspectives.
- Knowledge Integration: application and synthesis of information and concepts from diverse disciplines.
- Effective Communication: strong facility in oral and written communication; use of visual resources and technology for communication.
- Social Responsibility: respectful and civil treatment of others; active participation in civil and democratic institutions; protection of the environment, and intelligent use of natural resources.

Together with information literacy, the pillars prepare our graduates to be productive members of society who value lifelong learning.

Program Requirements

The Faculty of Computers and Information Technology offers three bachelor's degree:

- Computer Science
- Information Systems
- Digital Media Technology

To receive a bachelor's degree, students must complete a four-year program in which they complete 133 credit hours, which combine university requirements, faculty requirements, and department requirements.

• Programs General Aims

After successfully completing any of the faculty programs, the graduate should be able to:

- Apply the basic concepts and theories of computing and information.
- Combine and evaluate different tools and facilities.
- Use basic mathematics and science in computing and information.
- Analyze the requirements of a computing system and design as solution for these requirements.
- Use modern techniques, up to date methods and tools for computing and information practice.
- Demonstrate professional responsibilities, ethical, cultural and societal aspects.
- Compare, evaluate and select methodologies from range of techniques, theories and methods to develop computing and information systems.
- Manipulate the individual, social, environmental, organizational and economic implications of the application of computing and information.
- Create and develop work plan independently.
- Extend communication skills effectively.
- Apply the needed knowledge and skills in the computing and information market.
- Prepare a self-learning and research in computing and information field.
- Match the qualifications required by potential employers.

• Programs Specific Aims

Computer Science Program

The Computer Science program is designed to provide the student with the foundations of the discipline as well as the opportunity for specialization. After successfully completing the Computer Science program, the graduate should be able to:

- Understand knowledge that enhances skills in fundamental area of computer science.
- Use and adopt fundamental and advanced mathematics, basic sciences and computer science theories in all development phases of computer-based systems.
- Solve problems using mathematical knowledge through analyzing and interpreting data.
- Evaluate effectively the merits of software and computer system using appropriate analytical skills.
- Use all available principles and tools of software engineering in all phases.
- Use all available principles and tools of natural language processing and data mining.
- Comprehend deeply the basic concepts of computer science to be ready for further and continuous learning.
- Show a complete understanding of all computer science disciplines.
- Develop and evaluate a computer based system process and components.
- Compare, evaluate and select a design from a set of alternatives.

Information Systems Program

The Information Systems program is designed to provide the student with the foundations of the discipline as well as the opportunity for specialization. After successfully completing the Information Systems program, the graduate should be able to:

- Interpret the necessary knowledge that enhances skills in fundamental area of information systems.
- Comprehend the fundamentals of Systems Development Life Cycle (SDLC), information networks, information security, data mining, e-commerce, geographical information systems, crisis management, and other evolutionary aspects of IS.
- Comprehend deeply the basic concepts of information systems to be ready for further and continuous learning.
- Implement and evaluate effectively the merits of software and information systems using appropriate analytical and technical skills.
- Use and adopt the appropriate knowledge and skills base to pursue a career managing and developing information systems in a contemporary business context.
- Understand the operational, strategic and practical issues in information systems currently relevant to small, medium and large enterprises.
- Identify the management and ethical issues relating to information systems.
- Support the community with professional expertise in IS via co-operation between the Faculty (and its staff) and other external organizations in the society.

Digital Media Technology Program

The Digital Media Technology program is designed to provide the student with the foundations of the discipline as well as the opportunity for specialization. After successfully completing the Digital Media Technology program, the graduate should be able to:

- Comprehend deeply the basic concepts of computer science to be ready for further and continuous learning.
- Show a complete understanding of all computer science disciplines.
- Develop and evaluate a computer based system process and components.
- Compare, evaluate and select a design from a set of alternatives.
- Understand the computing and mathematics methodologies appropriate to digital media discipline.
- Solve problems based on user needs and computing requirements by analyze, select, create, evaluate and administrate computer-based systems.
- Produce effective project plan using the Information Technology tools, techniques and required skills.
- Use the technical concepts and practices in the core of digital media subjects and applying them to design computer-based systems.
- Deeply understand the computer based system integration and be able to apply in the user environment.

Faculty Teaching and Learning Strategy

Teaching and Learning Methods for Courses

- Interactive Lectures
- Theoretical Exercises
- Practical Applications
- Self Study
- Case Studies
- Workshops
- Problem Solving

Program Structure and Contents

a. Programs Duration: 4 years (8 semesters)

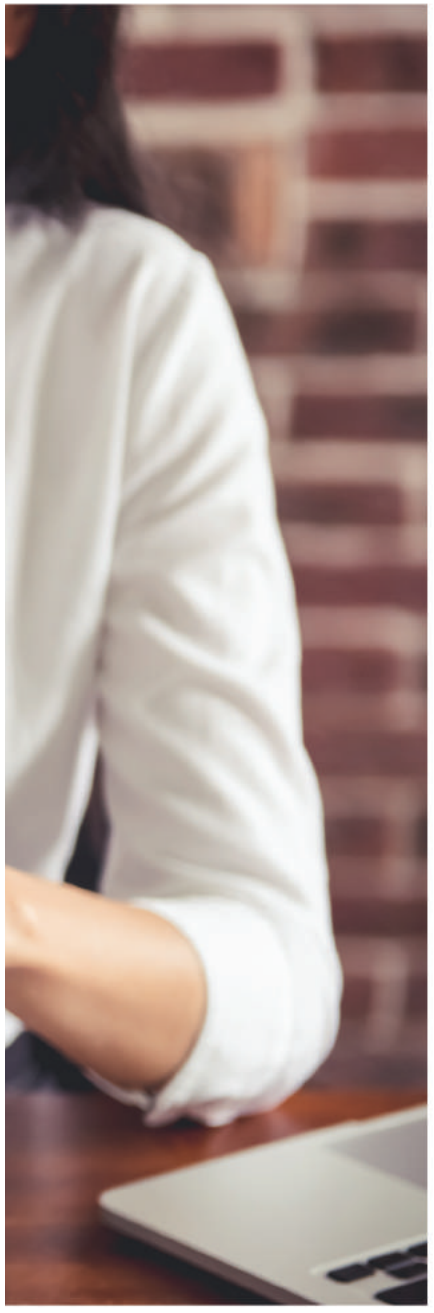
b. Programs Structure

• Hours Distribution

Total Credits: **133** credit hours	Theoretical: **90** credit hours
Compulsory Credits: **102** credit hours	Practical: **74 = 37** credit hours
Elective Credits: **31** credit hours	Tutorial : **12 = 6** credit hours

• Indicative curricula content by subject Area

Courses	Programs
Humanities, ethical and Social Sciences	12 credit hours (9%)
Mathematics and Basic Sciences	21 credit hours (15.8%)
Basic Computing Sciences	42 credit hours (31.6%)
Applied Computing Sciences	48 credit hours (36.1%)
Graduation Project	6 credit hours (4.5%)
Training	4 credit hours (3 %)



Requirements for Programs Admission

- Those who have The Egyptian General Secondary Certificate of Education (Thanaweya Amma) or its equivalent certificates according to rules issued by the Supreme Council of Private Universities. The University Council, considering rules of admission to each faculty, determines number of non- Egyptian students who might be admitted at the University.
- Those who receive the required grades in high school exam or its equivalent according to the Ministry of Higher Education policy toward private higher education. These grades should not be less than those spelled out in the Presidential Decree concerning the establishment of Future University.
- Those who successfully pass admission and competence tests or any other tests determined by the University Council.
- Those who successfully pass high school exam or its equivalent required admission courses for the Faculty he/ she is applying for.
- Those who successfully pass medical exam determined by University Council.

Students with high school certificate or its equivalent from previous year might be admitted if the following conditions are met:

- No more than one year elapsed since student received high school certificate or its equivalent.
- Student should have received minimum required grade for admission at the University according to the Presidential Decree of its establishment.
- Student should present a confirmation that he/she is not admitted to any Egyptian or equivalent University in the year he/she received his/ her high school certificate or its equivalent.
- Student should successfully pass competence tests or any other tests required by the University.

Regulations for Progression and Program Completion

• To receive a Bachelor's Degree, students must complete a four-year program in which they complete 133 credit hours which combine University requirements, Faculty requirements and Department requirements given that the minimum letter grade in any course is "D" and the minimum Cumulative Grade Point Average (CGPA) is "C" to be awarded a Bachelor of Science Degree (B.Sc.).

• Semesters

Academic year is divided into two regular semesters (fall and spring); each semester consists of fifteen weeks. The Faculty could arrange for summer semester, which covers six weeks.

• Academic Advising and Registration

The Faculty assigns academic advisors from the staff to each group of students. The academic advisors guide students in the selection of courses and the field of study during their four academic years. The academic advisor's guidance is optional. The student is responsible for the final selection of courses and field of study. Registration of courses during the period of registration as announced in the academic calendar is mandatory. Students could only register courses which they successfully completed their prerequisites.

• Class Levels

FCIT has 4 class levels: Freshman, sophomore, Junior and Senior. The total number of earned credit hours determines class level of each student for the student. Students become sophomores upon earning 28 credit hours, juniors by reaching 54 credit hours, and finally develop into seniors upon earning 88 credit hours.

• Academic Load

Students, in both Fall and Spring semesters, register a maximum of 18 credit hours and a minimum of 12 credit hours per semester, except during their graduating-senior semester where there are no minimum credit hours to register. Yet in the summer semester, a normal load shall not exceed 7 credit hours (9 credit hours in case of graduation). Students who are eligible to register an academic overload of up to additional 3 hours, must have a CGPA of not less than 3.5 and subject to the Faculty's approval.

• Choosing and Changing of Major

Student would select his/ her field of study starting with Third academic year after earning minimum of 54 credit hours including the introductory courses related to the chosen field of study

Students might change their major given the following conditions fulfilled:

- Students have not yet completed 88 credit hours and hence not yet registered as seniors.
- Approval by the Faculty.

• Attendance and Absence

- Attending classes and labs are essential where students benefit from lectures and discussions with professors and classmates. Students should attend regularly to avoid any negative impact on their grades.
- In case of absence of one of the semester tests without acceptable excuse, students will not be given another test opportunity.
- If absence percentage in one of the courses reached, during the first twelve weeks of the semester, 25% of attendance the student may withdraw from the course. If absence percentage, however, exceeded 25% the student would not be allowedto withdraw, attend lectures, attend final exam and will receive F in the course. The student should receive at least one warning before being prohibited.

• Incomplete Course

- In very rare cases, students who are unable to complete a course may be permitted to continue work in that course beyond the examination period. Any professor submitting an incomplete grade must supplement this submission with a form to the Dean's Office giving the following information:
  - Reason for the incomplete.
  - Course material, which is lacking.
  - Action necessary for removal of the incomplete.
- In such a case, a grade of "I", for "incomplete," is assigned. The students must arrange with the professor to complete the course within one month after the beginning of the new academic session. Failure to do this results in recording grade F for that course.

- If students have more than one incomplete grade, the credit hours of the incomplete will be included in their academic load for the following semester.

• Cheating

- In case of cheating during written exams, the cheating student will not be allowed, by Dean's decision, to complete the exam and will receive grade "F" in the course.

• Warnings

- If a student at the end of a semester received CGPA less than 2.0 he/she would be put under probation and academic supervision for 2 successive semesters. He/she should upgrade the CGPA to 2.0 by the end of the successive semester.
- In this case a written warning should be sent to the student and a copy to his parents explaining the consequences of his lack of commitment to the academic supervision.
- During that period, student would not be allowed to register for more than 12 Credit Hours in a semester in addition to the English course. During this period, student will not be allowed to participate in sports teams and other cultural and artistic activities organized by the University.
- During that period, student should meet with his academic advisor at least twice a month. The academic advisor should follow up on the student status with other professors.
- By the end of this period, if the student did not receive GPA of 2.0, he/ she would be terminated from the University.
- In this case, the student might appeal to the University to restart his studies. The University would study his/ her case and the social, psychological and academic circumstances which lead to his/her suspension. If the University approved the appeal, it would determine the conditions for the student to continue his/her studies.

• Repeating Courses

- Repeating a course in case of a student wishes to improve his/her grades:

A student might repeat a course to improve its grade. In this case, the higher grade will be calculated into the GPA and the previous grade will be erased from the student's record. If a student wishes to repeat a course for a second time he/she should present an appeal to students' affairs council with the view of the academic advisor and the Faculty council.

- Repeating a course in case a student receives F:

A student is allowed to repeat a course, which he failed. If he/she successfully passes the course, F would be erased from his/her transcripts and the new grade will be calculated in his GPA.

• Change of Courses

- Students who wish to drop or add any course must follow the rules which are determined by registration office in the Faculty.
- Students will not be allowed to drop and add any course without prior permission from the Faculty.
- Students will not be allowed to add additional course to their schedule after the registration deadline.
- Students may drop classes up to the end of the fourth week of classes in an academic semester, or first week in a summer semester with no grade record being maintained.
- Between the end of the fourth and the twelfth week of classes in an academic semester, or third week in a summer session, students may withdraw courses. A grade of "W" will be assigned to students in the withdrawn courses.
- After the twelfth week in academic semesters and the third week in the summer session, students are not permitted to withdraw classes.

Students will receive a grade of "F" if they stop attending classes without officially dropping or withdrawing the course.

•Training

- Third-year students are required to take compulsory field training in the summer semester. The training is calculated at 4 credit hours. The training is outside or within the Faculty.

Methods and Rules of Evaluating the Registered Students in the Programs

Method	Intended Learning Outcomes (ILOS) to be measured
1-Written exams	Knowledge and understanding, Intellectual Skills
2- oral exam and presentation during laboratory hours	Knowledge and understanding, Intellectual Skills and general transferable
3- Assignments and course work	Intellectual Skills and practical skills
4-Mini projects (team work)	Knowledge and understanding, Intellectual Skills, Professional and Practical Skills, Transferable skills
5- Practical exam	Knowledge and understanding, Intellectual Skills, Professional and Practical Skills, Transferable skills
6- Graduation Project	Knowledge and understanding, Intellectual Skills, Professional and Practical Skills, Transferable skills

Faculty Regulations

Academic System

The academic year is divided into two semesters; each semester consists of fifteen weeks. The faculty can arrange for a six-week summer semester, where students would be allowed to register for a maximum of 7 credit hours except the graduation cases can register for a maximum of 9 credit hours.
The student has the choice of selecting his/her field of study, starting with the third academic year, only after successfully studying the introductory courses, including the course related to the chosen field of study.
The studies in the faculty are based on a credit hour system. A credit hour is equivalent to one hour of theoretical studies or two hours of lab/ practical training. English is the language of teaching.

Academic Advising

The Faculty assigns academic advisors to each group of students. The academic advisors guide students in the selection of courses and the field of study during the four academic years.
The academic advisor's guidance is optional.
The student is responsible for the final selection of courses and field of study.

Grading System

A. Each instructor evaluates the students' activities during the semester (attendance, semester exams, assignments, and finals) and gives a grade for the course according to the following schedule:

Grade	Percentage	GPA
A	>=90%	4.0
A-	>=85% and <90%	3.7
B+	>=80% and <85%	3.3
B	>=75% and <80%	3.0
B-	>=70% and <75%	2.7
C+	>=65% and <70%	2.3
C	>=60% and <65%	2.0
C-	>=55% and <60%	1.7
D+	>=53% and <55%	1.3
D	>=50% and <53%	1.0
F	<50%>	0.0

For a student to pass any course, he or she should achieve at least 50% of the course grade (D).

B. GPA, at the end of each semester, is calculated as follows: **GPA = Total of (Grade × Number of Credit Hours for each course) ÷ Number of Credit Hours reached during study years.**

C. The duration of written exams for each course is two hours; The Faculty Council, based on suggestions from the departments, might change these durations.

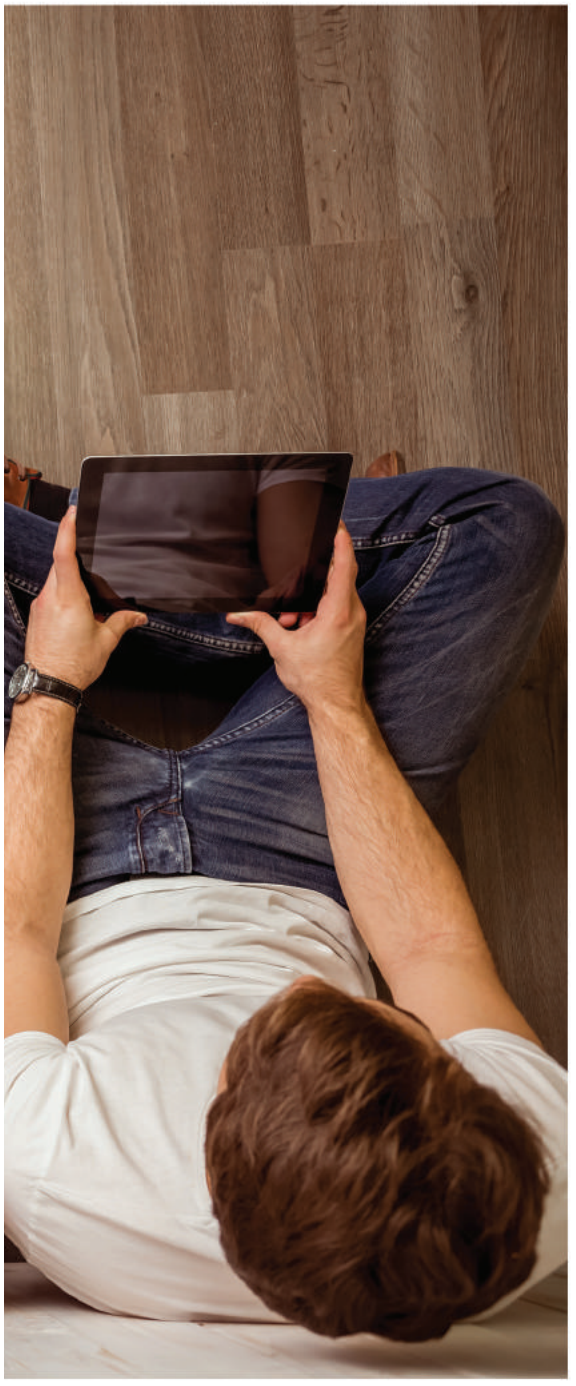
Organizational Regulations

The faculty council, based on suggestions from the relevant department, would approve amendments in the registration requirements, as well as the content of required courses.

The students committee in the faculty, in collaboration with the academic advisors, is required to follow-up periodically on the students' performance. The faculty council would then approve the results of the follow-up and identify the procedures and guidelines, which would improve the students' performance.

The faculty council, according to the university guidelines, would arrange for training workshops and special studies in subjects related to each department's field of study.

The faculty council might establish research centers, programs, and units to conduct academic research and studies, workshops, conference; as well as provide opinions and advice in subjects and issues related to computer science, information systems and Digital Media Technology.



Facilities

LECTURE HALLS

FUE prides itself in providing students with exceptional facilities that ensure a comfortable and inspiring academic atmosphere that supports and encourages our outstanding educational programs. More than just a beautiful and unique architectural design of the facade, our facilities are equipped with modern amenities and technology that comprise a complete state-of-the-art learning environment.

The faculty boasts a unique architectural design that ensures comfort and maximizes learning efficiency. Lecture theaters are fitted with all required educational technology materials, and comfortable luxury seats. The faculty provides the latest computer labs, equipped with high specs computers, and loaded with the latest version of software programs, to facilitate our teaching mission, to ensure that the students have access to the most updated systems in computer technology.

LABORATORIES

The labs are located in the Computer Science Building (B1.1, B1.7, B1.4, and B1.7) and the Engineering Building (A1.4, A1.8)

There are over 200 PC available for the students.

Each lab is equipped with the following technologies:

25 PCs running Windows 7

Minimum 17" LCD monitors.

Installed on each; PC Microsoft Office 2010, Microsoft Internet Explorer, Adobe Acrobat Reader, and Visual Studio, NET. Some machines may have additional software installed to meet the demands of particular classes. Each computer has a CD-ROM drive.

Ethernet circuits to the campus network connect all the lab computers.

There is a dedicated server running Windows terminal services which is also available over the network. Using remote desktop, students can connect to one of these servers to get desktop software which is almost the same as the one the saved on the general PCs.

Additional installed software; Microsoft Office, Visual Studio .NET, Oracle, Jdk1.6, NetBeans, Rational Rose for UML, Power Designer, MATLAB, SQL server, MYSQL Server , Apache Server.

Suggested 4 Year Plan

Computer Science Program

		1st Semester
Course Code	**Course Name**	**Credit Hours**
-	University Requirement 1	2
MT101	Mathematics -1	3
MT111	Discrete Mathematics	3
PH101	Physics	3
IS262	Introduction to Information Systems	3
CS101	University Requirement 2	2
Total		16

		2nd Semester
Course Code	**Course Name**	**Credit Hours**
-	University Requirement 3	2
MT102	Mathematics -2	3
MT112	Computer Programming -1	3
EL101	Electronics	3
ST103	Probability and Statistics	3
-	University Requirement 4	2
Total		16

		3rd Semester
Course Code	**Course Name**	**Credit Hours**
-	University Requirement 5	2
-	Faculty Elective 1	3
CS213	Computer Programming -2	3
CS111	Logic Design	3
MT103	Mathematics-3	3
-	University Requirement 6	2
Total		16

		4th Semester
Course Code	**Course Name**	**Credit Hours**
-	Faculty Elective2	3
CS222	Data Structures	3
CS251	Software Engineering-1	3
CS224	Advanced Programming	3
IS211	Database Systems -1	3
Total		15

		5th Semester
Course Code	**Course Name**	**Credit Hours**
IS251	Modeling and Simulation	3
CS341	Artificial Intelligence	3
DM222	Computer Networks-1	3
CS223	Computer Organization and Assembly Language	3
CS231	Operating Systems -1	3
CS352	Software Engineering -2	3
Total		18

		6th Semester
Course Code	**Course Name**	**Credit Hours**
CS313	Algorithms	3
CS314	Fundamentals of Programming Languages	3
-	Department Elective1	3
-	Department Elective2	3
CS312	Computer Architecture	3
CS495	Design of Web-based Applications	3
Total		18

		Summer Training
Course Code	**Course Name**	**Credit Hours**
TR333	Summer Training	4

		7th Semester
Course Code	**Course Name**	**Credit Hours**
PR498	Project-1	3
CS418	Parallel Processing	3
CS432	Operating Systems-2	3
CS416	Theory of Computations	3
-	Department Elective3	3
Total		15

		8th Semester
Course Code	**Course Name**	**Credit Hours**
PR499	Project-2	3
-	Department Elective4	3
-	Department Elective5	3
-	Department Elective6	3
-	Department Elective7	3
Total		15

Digital Media Technology Program

		1st Semester
Course Code	**Course Name**	**Credit Hours**
-	University Requirement 1	2
MT101	Mathematics -1	3
MT111	Discrete Mathematics	3
PH101	Physics	3
IS262	Introduction to Information Systems	3
CS101	University Requirement 2	2
Total		16

		2nd Semester
Course Code	**Course Name**	**Credit Hours**
-	University Requirement 3	2
MT102	Mathematics -2	3
MT112	Computer Programming -1	3
EL101	Electronics	3
ST103	Probability and Statistics	3
-	University Requirement 4	2
Total		16

		3rd Semester
Course Code	**Course Name**	**Credit Hours**
-	University Requirement 5	2
-	Faculty Elective I	3
CS213	Computer Programming -2	3
CS111	Logic Design	3
MT103	Mathematics-3	3
-	University Requirement 6	2
Total		16

		4th Semester
Course Code	**Course Name**	**Credit Hours**
-	Faculty Elective2	3
CS222	Data Structures	3
CS251	Software Engineering-I	3
CS224	Advanced Programming	3
IS211	Database Systems -1	3
Total		15

		5th Semester
Course Code	**Course Name**	**Credit Hours**
IS251	Modeling and Simulation	3
DM231	Signals and Systems	3
DM222	Computer Networks-1	3
CS223	Computer Organization and Assembly Language	3
CS231	Operating Systems -1	3
-	Department Elective2	3
Total		18

		6th Semester
Course Code	**Course Name**	**Credit Hours**
DM331	Digital Signals Processing	3
DM323	Computer Networks-2	3
DM341	Computer Graphics	3
DM442	Multimedia	3
-	Department Elective 2	3
-	Department Elective 3	3
Total		18

		Summer Training
Course Code	**Course Name**	**Credit Hours**
TR333	Summer Training	4

		7th Semester
Course Code	**Course Name**	**Credit Hours**
PR498	Project-1	3
DM432	Image Processing	3
DM426	Computers and Information Security	3
DM427	Computer Creative Art	3
-	Department Elective5	3
Total		15

		8th Semester
Course Code	**Course Name**	**Credit Hours**
PR499	Project-2	3
DM443	Virtual Reality	3
-	Department Elective5	3
-	Department Elective6	3
-	Department Elective7	3
Total		15

Information Systems Program

		1st Semester
Course Code	**Course Name**	**Credit Hours**
-	University Requirement 1	2
MT101	Mathematics -1	3
MT111	Discrete Mathematics	3
PH101	Physics	3
IS262	Introduction to Information Systems	3
CS101	University Requirement 2	2
Total		16

		2nd Semester
Course Code	**Course Name**	**Credit Hours**
-	University Requirement 3	2
MT102	Mathematics -2	3
MT112	Computer Programming -1	3
EL101	Electronics	3
ST103	Probability and Statistics	3
-	University Requirement 4	2
Total		16

		3rd Semester
Course Code	**Course Name**	**Credit Hours**
-	University Requirement 5	2
-	Faculty Elective I	3
CS213	Computer Programming -2	3
CS111	Logic Design	3
MT103	Mathematics-3	3
-	University Requirement 6	2
Total		16

		4th Semester
Course Code	**Course Name**	**Credit Hours**
-	Faculty Elective2	3
CS222	Data Structures	3
CS251	Software Engineering-1	3
CS224	Advanced Programming	3
IS211	Database Systems -1	3
Total		15

		5th Semester
Course Code	**Course Name**	**Credit Hours**
IS251	Modeling and Simulation	3
IS321	System Analysis and Design	3
DM222	Computer Networks-1	3
CS223	Computer Organization and Assembly Language	3
CS231	Operating Systems -1	3
-	Department Elective1	3
Total		18

		6th Semester
Course Code	**Course Name**	**Credit Hours**
IS465	Business Intelligence	3
IS312	Database 2	3
IS323	Management Information Systems	3
IS341	Information Storage and Retrieval	3
-	Department Elective 2	3
-	Department Elective 3	3
Total		18

		Summer Training
Course Code	**Course Name**	**Credit Hours**
TR333	Summer Training	4

		7th Semester
Course Code	**Course Name**	**Credit Hours**
PR498	Project-1	3
IS424	Geographical Information Systems	3
IS433	Decision Support Systems	3
IS442	Data Warehousing	3
-	Department Elective4	3
Total		15

		8th Semester
Course Code	**Course Name**	**Credit Hours**
PR499	Project-2	3
IS443	Data Mining	3
-	Department Elective5	3
-	Department Elective6	3
-	Department Elective7	3
Total		15

AGREEMENTS & PARTNERSHIPS

Microsoft IT Academy

The Microsoft IT Academy program enables academic learning institutions to connect the world of education to the world of work by enabling faculty and students to acquire new technology skills in an academic setting. Microsoft IT Academies benefit from world-class Microsoft curriculum and cutting-edge software tools to experience real-world challenges in the classroom environment.


ORACLE

Oracle Academy

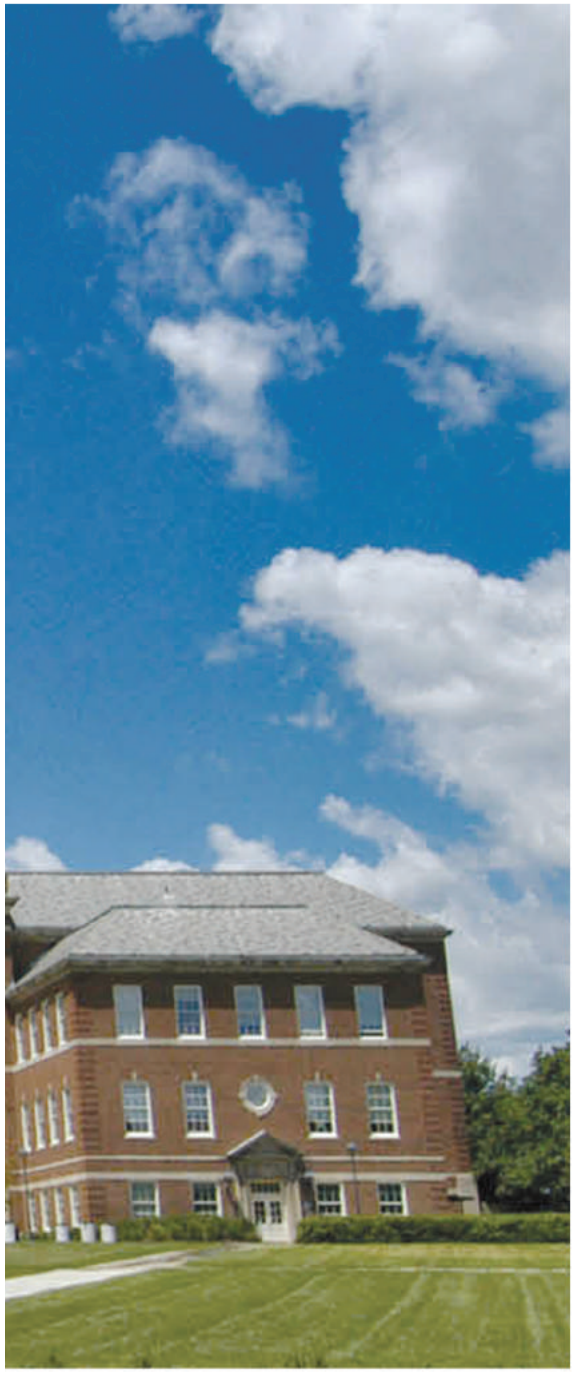
Advanced Computer Science: This course is designed for college and university computer science departments. It provides faculties with Oracle database and middleware software, development tools and curriculum for teaching. Through this comprehensive set of resources, students have the opportunity to gain hands-on experience with Oracle's world class database technologies, giving them a competitive advantage as they prepare to enter the workforce.

Enterprise Business Applications: This is designed for college and university computer science departments and business schools. It provides faculties with Oracle applications software, hosted technology and curricula for teaching. Through this comprehensive set of resources, students have the opportunity gain hands-on experience with applications that are used in industries such as finance, retail, telecommunications, healthcare, and manufacturing.

SAP Egypt LLC" System Applications and Products

Future University has signed an agreement with SAP software for research and teaching purposes. This allows an unlimited number of members, teaching staff and students, to access SAP software that is used on preparing for any consulting and developing projects; facilitating high performance.

Teaching staff are entitled to access SAP software from work centers outside of University to prepare for their classes; students access SAP only during a class for the purpose of creating academic work. SAP provides suitable support training, at SAP training centers in Germany and in Egypt, for FUE permanent employees from year to year reflecting FUE's curriculum.



University of Cincinnati

To achieve international quality standards and accreditation, FUE and the University of Cincinnati (UC) signed an agreement for an academic partnership effective July 2013. It includes the undergraduate programs in Faculty of Engineering & Technology, Faculty of Commerce & Business Administration, Faculty of Economics & Political Science and Faculty of Computers & Information Technology.

In collaboration with FUE professors, an academic team from UC reviewed the curricula in the four faculties and identified areas for improvement commensurate with the Egyptian Ministry of Higher Education and international quality standards. As a result, UC recognized the programs in the four faculties as qualified for the partnership and certification. Students graduating from FUE will have the UC accreditation on their certificates and final transcripts. This reflects the common standards and educational quality of FUE and UC.

The collaboration will include a number of joint FUE/UC activities including but not limited to student and professor exchanges, research projects, seminars, and annual audits.