FUTURE UNIVERSITY IN EGYPT جامعة المستقبل

Faculty of Computers and Information Technology

Summer Training

Information :

Course Code :	TR333	**Level :**	Undergraduate	**Course Hours :**	4.00- Hours
Department :	Department of Computer Science				

Area Of Study :

Use modern techniques, up to date methods and tools for computing and information practice.
Compare, evaluate and select methodologies from range of techniques, theories and methods to develop computing and information systems.
Deal with the individual, social, environmental, organizational and economic implications of the application of computing and information.
Create and develop work plan independently. Use effectively communication skills.
Own the needed knowledge and skills in the computing and information market.
Understand knowledge that enhances skills in fundamental area of computer science.
Use and adopt fundamental and advanced software and computer system in all development phases.
Comprehend deeply the basic concepts of computer science to develop and evaluate a computer based system process and components.

Course outcomes :

a.Knowledge and Understanding: :	
1 -	Describe the methodologies, practices and tools used in computer software systems development phases.
2 -	Identify the criteria for current use and future development of computer-based systems.
3 -	Outline testing techniques and methods of computer based systems.
4 -	Describe the basic concept of high level programming languages.
5 -	Explain the principles and techniques of different areas in computer science.
6 -	Identify the fundamental topics of computer science
b.Intellectual Skills: :	
1 -	Implement the solutions of computing and information in academic disciplines.
2 -	Determine measurement criteria for the deployment of a computer-system and evolution.
3 -	Prepare presentations of computing and information systems
4 -	Test and evaluate the functionality of computer and information systems.
5 -	Criticize a system using costs and different quality attributes and environmental impact.
6 -	Relate professional, moral, legal and ethical issues to computing and information.
7 -	Analyze different CS Problems with in commercial and industrial constrains.
8 -	Select appropriate methodologies and techniques for a given problem associated with their results.
9 -	Classify data, results, methods, techniques and algorithms.

c.Professional and Practical Skills: :	
1 -	Run computing equipment in different physical environment
2 -	Use different computing technologies in projects development and deployment.
3 -	. Design, implement, test, maintain and manage software systems.
4 -	Manipulate big data and draw conclusions.
5 -	Use human computer interaction principles in the construction and evaluation of user interfaces for wide ranges of applications.
6 -	Deploy effective supporting tools for the development and documentation of software systems.
7 -	Create technical reports according to professional standards.
d.General and Transferable Skills: :	
1 -	Exploit a range of learning resources.
2 -	Work in a team to develop the requirement documentation
3 -	Use Information Retrieval techniques.
4 -	Apply communication skills in presentations and report writing using various methods and tools.
5 -	Apply quantitative methods and skills in understanding and presenting cases.
6 -	Utilize effectively general computing facilities.
7 -	Appreciate continuous professional development and lifelong learning.

ABET Course outcomes :	
1 -	Apply knowledge and skills they learned to solve real-life problems in the field of their study.
2 -	Able to integrate themselves in the working environment and develop their professional relationships.
3 -	Acquire adequate understanding of working organizations in real-life environment.
4 -	Communicate effectively within the working environment.
5 -	Work with people having different backgrounds.
6 -	Develop professional skills.
7 -	Apply the professional and ethical responsibilities in their profession.

Course Topic And Contents :

Topic	No. of hours	Lecture	Tutorial / Practical
Weekly diary participation in some related computer training	5		
Reporting and discussion Evaluation	5		

Teaching And Learning Methodologies :
Interactive discussion
Tutorials
Practical Lab Sessions
Self-Study (Project / Reading Materials / Online Material / Presentations)
Seminars
Case Studies
Problem Solving