Arab Academy for Science and Technology and Maritime Transport Computer Science Curriculum Course Syllabus

Course Syllabus					
Course Code: CS401	Course Title: Project I	Classification: R	Coordinator's Name: Dr. Mohamed Mostafa Lecturer's name: <supervisor name=""></supervisor>	Credit Hours:	
Pre-requisites: GPA=2.0 & 96 CR or more	Co-requisites: None	Schedule: Lecture:	2 hours		
Office Hours: (Room 308) Saturday 10:30 a.m12:30 p.m.					
Course Description:					
obtained from their technical and creati under the direction ability to identify	educational programed to the control of a problem domain, all tools/research, id	m by developing positions shall complete the faculty members. define the probl	d the learning skills a rojects that demonstra eir projects in areas of Project 1 will demons em, conduct analysis requirements, perform	te their intellectual, concentrated study strate the students' of current related	

Contribution to Program Student Outcomes:

Textbook:

References:

Course Objective/Course Learning Outcome:

1.	Explain and identify the applications of the projects and its association with real and industrial life.	(SO 1) Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions
2.	Demonstrate the ability of student to survey the main background and sketch comparative literature among different related models, tools and techniques.	(SO 1) Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
3.	Apply the phases of requirements, analysis and design in the software development life cycle and illustrating considerations of professional and ethical responsibilities.	(SO 1) Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions (SO 2) Design, implement and evaluate a computing based solution to meet a given set of computing requirements in the context of program's discipline. (SO4) Recognize professional responsibilities and make informed judgements in computing practice based on legal and ethical principles.
4.	Demonstrate effective technical writing, communication and presentation skills	(SO 3) Communicate effectively in a variety of professional contexts.
5.		(SO 5) Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.

Course Outline:

- 1. **Week 1:** Formulate Problem definition(Problem Statement)
- 2. **Week 2:** Formulate Problem definition(Problem Statement) continued
- 3. **Week 3:** Determine Motivation and Applications
- 4. **Week 4:** Articulate Project Aims and Objectives
- 5. **Week 5:** Conduct Literature Survey
- 6. **Week 6:** Conduct Literature Survey continued
- 7. **Week 7:** Plan for the project (Scope definition and task breakdown, time management)
- 8. **Week 8:** Gather Requirements

- 9. **Week 9:** Write the requirements specification document
- 10. **Week 10:** Systems analysis of processes and data
- 11. **Week 11:** Perform systems analysis of processes and data
- 12. **Week 12:** Design the required features and operations in detail and produce design artifacts
- 13. **Week 13:** Design the required features and operations in detail and produce design artifacts continued
- 14. **Week 14:** Develop a Proof-of-Principle Prototype
- 15. **Week 15:** Project 1 Defense (Oral presentation)

Grade Distribution:

Upon successful completion of the course the student will be evaluated by the supervisor(s) and exam committee according to his/her performance. Supervisors place 60% of the mark and the examiners 40%. The formula is as follows:

Supervisor 60%(Group evaluation + Individual evaluation) + Average 20%(Examiners' individual evaluations) + Average 20%(Examiners' Group evaluations

Policies:

Attendance:

AASTMT Education and Study Regulations (available at aast.edu)

Academic Honesty:

AASTMT Education and Study Regulations (available at <u>aast.edu</u>)