Arab Academy for Science and Technology and Maritime Transport
Information Systems Curriculum
Course Syllabus

Course Code:	**Course Title:**	**Classification:**	**Coordinator's Name:**	**Credit Hours:**
SE391	Project Management	**R**	Prof. Dr. Khaled Mahar, Dr. Ahmed Sedky **Lecturer:** Dr. Ahmed Hisham	3
Pre-requisites:	**Co-requisites:**	**Schedule:**		
SE291 (Introduction to Software Engineering)	None	Lecture: 2 hours Tutorial: 2 hours		

Office Hours: (Room 405)

Tuesday 10:30 am- 12:30 pm

Course Description:

The future of many organizations depends on their ability to harness the power of information technology, and good project managers continue to be in high demand. The aim of this course is to help develop and deepen the effectiveness of project management and project teams. This course applies the 10 project management knowledge areas and all five process groups to information technology projects. In this course students learn about the project management knowledge areas, which are: integration, scope, time, cost, quality, human resources, risk, communications, procurement, and stakeholder management. They also learn about the five process groups are initiating, planning, execution, monitoring and controlling, and closing. Moreover, practice sessions are provided for implementing different case studies in group work, and discussing different aspects of project management.

Textbook:

Kathy Schwalbe, *Information Technology Project Management*, Cengage Learning.

References:

1. Fairley, Richard E. *Managing and leading software projects*. John Wiley & Sons, 2011.
2. Villafiorita, Adolfo. *Introduction to software project management*. CRC Press, 2014.

Course Objective/Course Learning Outcome:	Contribution to Program Student Outcomes:
1. Describe project management and discuss key elements of the project management framework, including project stakeholders, the project management knowledge areas, common tools and techniques, and project success 2. Understand the role of the project manager by describing what project managers do, what skills they need, and what the career field is like for information technology project managers 3. Describe the systems view of project management and how it applies to information technology projects 4. Understand organizations, including the four frames, organizational structures, and organizational culture 5. Understand the concept of a project phase and the project life cycle and distinguish between project development and product development 6. Describe the five project management (PM) process groups, the typical level of activity for each, and the interactions among them, and how they map to the project management knowledge areas.	SO1 - Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions. SO3 - Communicate effectively in a variety of professional contexts.
7. Explain the strategic planning process and apply different project selection methods 8. Understand the importance of good project scope, time, cost, quality, and HR management including demonstrating processes, techniques, and best practices. 9. Demonstrate how PM software can assist in different project management knowledge areas and applying on a team-based case study.	SO1 - Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions. SO3 - Communicate effectively in a variety of professional contexts. SO5 – Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.

Course Outline:

1. **Week 1:** Introduction to Project Management
2. **Week 2:** Introduction to Project Management
3. **Week 3:** The project Management and Information Technology Context
4. **Week 4:** The Project Management Process Groups
5. **Week 5:** Project Integration Management
6. **Week 6:** Project Scope Management
7. **Week 7: 7th week examination**
8. **Week 8:** Project Time Management
9. **Week 9:** Project Time Management
10. **Week 10:** Project Cost Management
11. **Week 11:** Project Quality Management
12. **Week 12:** Project Human Resource Management
13. **Week 13:** Project Human Resource Management
14. **Week 14:** Projects Discussion
15. **Week 15:** Revision
16. **Week 16:** Final Examination

Grade Distribution:

7th Week Assessment (30%):
Exam (30%)
12th Week Assessment (20%):
Project (15%) + Assignment (5%)
Coursework (10%):
Attendance (10%)
Final Exam (40%)

Policies:

Attendance:
AASTMT Education and Study Regulations (available at aast.edu)
Academic Honesty:
AASTMT Education and Study Regulations (available at aast.edu)
Late Submission:
Late submissions are graded out of 75% (1 week late), 50% (2 weeks late), 25% (3 weeks late), 0% (more than 3 weeks late)