



Arab Academy for Science and Technology & Maritime Transport  
College of Computing and Information Technology  
Department of Software Engineering, Cairo

**University/Academy:** Arab Academy for Science and Technology & Maritime Transport  
**Faculty/Institute:** College of Computing and Information Technology  
**Program:** Software Engineering

<b>Course title</b>	<b>Security in Software Engineering</b>
<b>Course code</b>	<b>SE495</b>

**Form no. (11A)**  
**Knowledge and skills matrix for a course**

<b>Course content</b>	<b>Week study</b>	<b>Knowledge</b>	<b>Intellectual skills</b>	<b>Professional skills</b>	<b>General skills</b>
Software Security Fundamentals	1	K12, K18	I12	P19	G1, G3
Security Problems in Software	2	K12, K18	I12	P19	
Risk Management Framework	3	K12, k17, K18	I12	P19	
Software Security Touchpoints	4	K12, K16, k17, K18	I11, I12	P19	G1, G3

<b>Course content</b>	<b>Week study</b>	<b>Knowledge</b>	<b>Intellectual skills</b>	<b>Professional skills</b>	<b>General skills</b>
Code Review with a Tool	5	K12, K16,k17, K18	I12	P20	
Architectural Risk Analysis	6	K16, K17, K18	I11, I12	P19	
exam	7				G1, G2, G3
Software Penetration Testing	8	K16, K17, K18	I11, I12	P20	
Risk-Based Security Testing	9	K16, K17, K18	I12	P20	
Abuse Cases	10	K16, K17, K18	I11, I12	P19	G1, G2, G3
Software Security Meets Security Operations	11	K12, K17, K18	I11, I12	P19	
Exam	12				

<b>Course content</b>	<b>Week study</b>	<b>Knowledge</b>	<b>Intellectual skills</b>	<b>Professional skills</b>	<b>General skills</b>
An Enterprise Software Security Program	13	K12,K17, K18	I12	P19, P20	G1, G2, G3
Knowledge for Software Security	14	K16, K17, K18	I12	P19	
Revision.	15				

**Course Instructor:**

**Head of Department:**

**Program Manager:**