

	Course name: Software Development Security				Department: CENG		Semester 2
	Methods of Education						Credit (ECTS)
	Lecture	Recitation / (Etud)	Lab	Project/Field Study	Homework	Other	Total
	42			60	30	18	150
Language	English						
Compulsory/Elective	Elective						
Prerequisites	None						
Course Contents	This course covers foundational concepts in various software development life cycle models, and it discusses security requirements in software development processes and assurance requirements in the software. In many cases, security controls are bolted on as an afterthought (if at all). To get the best of both worlds, security and functionality would have to be designed and integrated into each phase of the development lifecycle. Additionally, this course will cover Dev/Ops , web security and malicious software inspection. This course focus on security before the start and during the developing of software.						
Course Objectives	<ul style="list-style-type: none">• An understanding of security over software• An understanding of common software development issues• An understanding of software development life cycles• An understanding of secure software development approaches• An understanding of Development/Operations integration (DevOps)• An understanding of change control and configuration management• An understanding of security of code repositories• An understanding of web security• An understanding of database concepts and security issues• An understanding of malware types and attacks						
Textbook and /or References							
Assessment Criteria				If any, mark as (X)	Percentage (%)		
	Midterm Exams			X	30		
	Quizzes			X	20		
	Homework			X	10		
	Projects						
	Term Paper						
	Laboratory work						
	Other						
	Final Exam			X	40		
Instructors							
Week	Subject						
1	Introduction to Information Security						
2	SDLC (Software Development Life Cycle)						
3	Software Development Models						
4	Dev/Ops						
5	CMMI						
6	Change Control						
7	Programming Languages and Concepts						
8	Midterm						
9	Distributed Computing						

10	Mobile Code
11	Web Security
12	Database Management
13	Malicious Software
14	Malicious Software (Cont.)
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