KURSPLAN
Webb-säkerhet, 7,5 högskolepoäng

Web Security, 7.5 credits

Kurskod:	TWSR22	**Utbildningsnivå:**	Avancerad nivå
Fastställd av:	VD 2021-03-01	**Utbildningsområde:**	Tekniska området
Gäller fr.o.m.:	2022-01-01	**Ämnesgrupp:**	DT1
Version:	1	**Fördjupning:**	A1N
		Huvudområde:	Informatik

Lärandemål

After a successful course, the student shall:

Kunskap och förståelse
- show familiarity with concepts within web security
- display knowledge of different threats and attacks from a web security perspective
- show familiarity with protocols and specifications for secure communication

Färdighet och förmåga
- demonstrate the ability to review, present and critically assess state-of-the-art papers in relevant areas within web security
- demonstrate the ability to find, review, and assess preventive measures and mitigation techniques for known web security threats

Värderingsförmåga och förhållningssätt
- demonstrate an understanding of how different preventive measures and mitigation techniques for known web security threats compare

Innehåll

The course starts with a brief introduction to information security to set the context. After, insights into both the client-side and the server-side of web security are presented.

The course includes the following elements:
- Browser-related flaws and issues
- Server-side flaws and issues
- Attacks (such as injection, cross-site scripting and denial-of-service)
- Mitigation techniques
- Cloud security

Undervisningsformer

The course consists of lectures and an assignment.

Undervisningen bedrivs på engelska.

Förkunskapskrav

The applicant must hold the minimum of a bachelor's degree (i.e the equivalent of 180 ECTS credits at an accredited university) with at least 90 credits in Informatics, Computer Engineering, Computer Science or equivalent. Proof of English proficiency is required.

Examination och betyg

Kursen bedöms med betygen 5, 4, 3 eller Underkänd.

Poängregistrering av examinationen för kursen sker enligt följande system:

Examinationsmoment	Omfattning	Betyg
Examination[I]	4 hp	5/4/3/U
Inlämningsuppgift	3,5 hp	U/G

[I] Bestämmer kursens slutbetyg vilket utfärdas först när samtliga moment godkänts.

Kurslitteratur

The literature list for the course will be provided one month before the course starts.