

CS7053/CS7453/CS7NS5/CS4407

Security & privacy

Stephen Farrell

stephen.farrell@cs.tcd.ie
x2354, Room WR3.4

Course materials:

<https://down.dsg.cs.tcd.ie/cs7053/>

<https://github.com/sftcd/cs7053>

Slideware + some papers

Administrivia

- Lectures:
 - Mon 1600-1800, LB04
 - Thur 0900-1000, LB01
- Dates:
 - Term: Today -> April 12th
 - Reading week: Mar 4th – Mar 8th
 - Me away: week of Mar 25th
 - Will let you know what's on closer to time

Examination

- 80%/20% exam/assignments marking split
 - Old exam questions/solutions:
 - <https://down.dsg.cs.tcd.ie/old-exams>
- Assignment 1 (15%)
 - “security & privacy considerations”
- Assignment 2 (5%)
 - “security incident” or PR for course repo
- Due dates:
 - Due: any time up to the last day I'm marking exam papers, April 1st if you prefer a date
 - Submit via blackboard – Module CS4407
 - Email me if any issues

Assignment Tasks

- Security & Privacy Considerations:

- 3-4 pages usually; use in dissertation/FYP
- Discuss the security & privacy issues of your dissertation/FYP topic
- See RFCs 3552, 6973 and W3C tech report on sec/privacy considerations

<https://tools.ietf.org/html/rfc3552>

<https://tools.ietf.org/html/rfc6973>

<https://www.w3.org/TR/security-privacy-questionnaire/>

- Security Incident:

- 1 page describing a significant incident that happens during the course saying why its significant
- Or, a github PR that's accepted

Course Outline

- Introduction
- Security and privacy concepts
- (Enough) cryptography (AES, RSA, ...)
- (To grok) core security standards (TLS,...)
- Stuff that's interesting for the last few weeks (liable to change)