



Unit 1 - Reading

Course: MSc Computer Science

Module: Secure Software Development (Computer Science)

Assignment: ePortfolio

Date: Sunday 22nd August 2021

Student ID: 126853

Required Reading:

Asghar, M. Z., Alam, K. A. & Javed, S. (2019) Software Design Patterns

Recommendation : A Systematic Literature Review, *2019 International Conference on Frontiers of Information Technology*.

Core Text: Pillai, A.B. (2017) *Software Architecture with Python*. Birmingham, UK.

Packt Publishing Ltd.

ISO/IEC (2018) ISO/IEC Standard 27000 Section 3.

Mitre (2017) Weaknesses in OWASP Top Ten.

OMG (2017) Unified Modelling Language, Version 2.5.1.

Pohl, C. & Hof, H-J. (2015) *Secure Scrum: Development of Secure Software with Scrum*, in Proc. of the 9th International Conference on Emerging Security Information, Systems and Technologies.

Royce, W. W. (1970) Managing the Development of Large Software Systems.

Unified Modelling Homepage

Additional Reading:

Casteren, W. Van. (2017) The Waterfall Model and the Agile Methodologies: A Comparison by Project Characteristics.

Fowler, M. (2006) Code Smell.

IBM (2015) 10 Essential Security Practices from IBM.

Manadhata, P. & Wing, J. M. (2004) *Measuring a System's Attack Surface*, Carnegie Mellon.

Mougouei, D., Sani, F. M., & Almasi, M. (2013) S-Scrum: a Secure Methodology for Agile Development of Web Service, *Computer Science and Information Technology*.

Ofcom (2019) O2 Network Outage.

Open Group (2016) The SOA Source Book

Wichers, D. (2008) Breaking the Waterfall Mindset of the Security Industry.

In: *OWASP AppSec USA*, New York.