

NUS SOC Summer Workshop 2024

Cloud, Security, IoT & AI

DOTA Defense of the Ancients

Course Information

Pre-requisites

🐙 Which year of study is appropriate for your topic?

Year 2 or 3.

🐙 What background and programming languages are required for your topic?

Basic programming, interest in computer hardware.

🐙 What do you think is attractive/unique about your topic to students?

Opportunity to explore security issues.

Learning content and Teaching

🐙 What will be covered during “trial” lectures (Phase 1)?

The trial lecture will be an overview of the landscape of IT security, a world of information warfare and technology, and also human weaknesses and attacks. There may be a (time-limited) laboratory in the afternoon. Students may be given a mini-project to work on over the next week.

🐙 What will be covered during the “advanced” seminars (Phase 2)?

Cryptography, network security, architectural and hardware aspects.

🐙 What will be the nature of the project work? How do you intend to split students into project groups, each consisting of 3 or 4 students?


Each group will be formed by the lecturer, and will be assigned an initial (different) topic. Each group may choose a different topic if they wish (if the topic is not of interest to the group), and will then explore it in detail. Some topics may have a hardware, networking/signalling component, and equipment will be provided if needed.

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 Do you have any recommendations for references (books) students can study to prepare for your topic before coming to NUS?

[Any computer security textbook.](#)

 Besides their own personal laptops, what other equipment or software would students need for your topic?

[None.](#)

Assessment

 What forms of assessment will there be?

[Project and practicals](#)