

# **EEE2021 Semester 2 Course plan**

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### 1.1 Lectures

Start of with RISC-V Assembly and all of the operations and what they do.

Guide on how to build some simple mathematical programs

Explain memory concepts and memory access.

Explain the stack and heap as concepts.

Cover basics of C programming

Cache purpose and access in C and Assembly (L1,2,3 cache levels)

Compilers?? will tie into optimisation.

Compiler Flags??

Find RISC-V simulator (probably use venus for the code).

### 1.2 Labs

#### 1.2.1 Assembly

#### 1.2.2 C

Pointers and referencing

malloc, calloc, realloc, free (dynamic memory)

arrays and stacks explained.

matrix class as a practical.

### 1.3 Lab assistant material

answers and explanations for the concepts and questions.