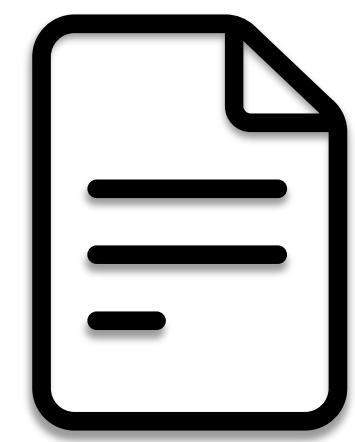


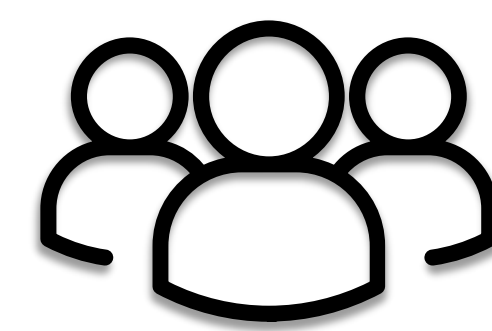
Girls' Computing Programme (GCOMP)

Jan – Apr 2027



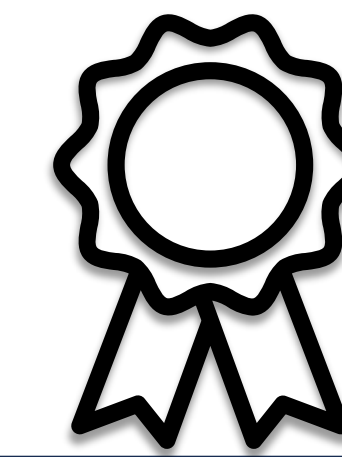
Objectives

- Improve gender diversity within STEM and computing
- Gain expertise in these important fields of study
- Gain exposure to make better informed career choices



Target Audience

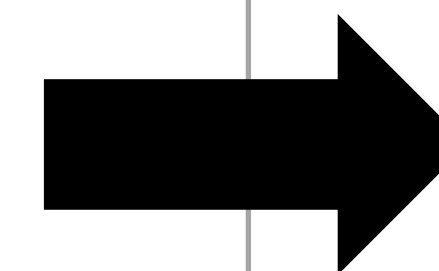
- Female students who have just completed their A-levels
- Students with H2 Computing background will have access to materials and can directly sit for the practical exam (attending tutorial class optional)
- **Pre-requisite:** Sec-Level Mathematics



Why Join?

- Learn more about NUS SoC
- Hand-on experience in project development
- Certificate on completion
- Letter of recommendation (top students)
- Opportunity to be mentored by SoC students.

Course 1: Programming Methodology



Course 2: Introduction to Machine Learning

Course Content

- ❖ Fundamentals of Python
- ❖ Problem Solving using Abstraction
- ❖ Decomposition and Integration
- ❖ Data Representations using List, Tuples.

Schedule

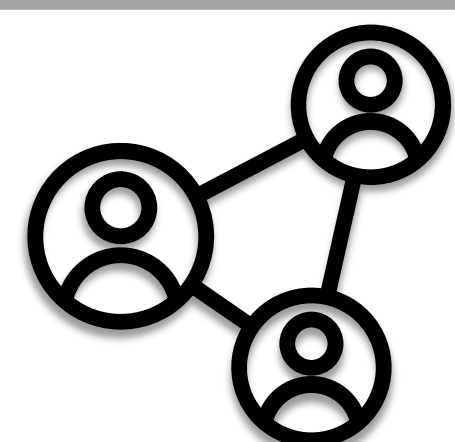
- **1st Nov:** Video lectures to self learn
- **5 Jan - 15 Jan (afternoon):** 4 tutorial class, compulsory attendance
- **One Week:** Mini Project
- **2 hours:** Practical Exam (23rd Jan 2027 tentative, afternoon)

Course Content

- ❖ Machine Learning Pipeline
- ❖ Basic Machine Learning Algorithms
- ❖ Model Evaluation
- ❖ Data Processing and Feature Engineering

Schedule

- **28th Jan:** Video lectures to self learn
- **5 Feb-26 Feb (afternoon) :** 4 tutorial class, compulsory attendance
- **3 hours:** Practical Exam (6th March 2027 tentative, afternoon)
- **15th March – 24th April:** Mini project



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Website:

