Software for Mathematical Scientists and Educators (CS3101)

Joshua Maglione

Semester 2 (2024)

Module information:

Meeting Times: Tuesdays 12:00pm – 1:50pm (with 10 minute break),

Room: Áras de Brún G021,

Contact: joshua.maglione@universityofgalway.ie

Website: Canvas and https://joshmaglione.com/2024CS3101.html

Topics: We will cover four key topics in this module:

1. Mathematical Typesetting and LaTeX,
2. Python and Jupyter Notebooks,
3. Introduction to Mathematical Programming,
4. Symbolic Computation and SageMath.

Assessment: The total assessment of the course comprises 100% of homework. There will be four assignments, one for each of the four topics above. Each assignment will contribute 25% to the total.