

Workshop Schedule: Generative AI for Numerical Analysis

Monday , 31 March 2025	
Time	Activity
09:00 – 09:30	Welcome and Introductions
09:30 – 10:30	Exploring Best AI Tools For Mathematics
10:30 – 11:00	Tea Break – <i>MSB UG floor</i>
11:00 – 12:00	Prompt Engineering For Numerical Analysis
12:00 – 13:00	Hands on Practice
13:00 – 14:00	Lunch – <i>MSB UG floor</i>
14:00 – 15:00	AI for Error Analysis and Stability Investigation
15:00 – 16:00	Group Work
16:00 – 16:30	Tea Break – <i>MSB UG floor</i>
16:30 – 17:30	Group Work

Tuesday , 1 April 2025	
Time	Activity
09:00 – 10:30	Deriving Numerical Schemes with AI Assistance
10:30 – 11:00	Tea Break – <i>MSB UG floor</i>
11:00 – 12:00	Using AI to Linearise and Programme Numerical Schemes
12:00 – 13:00	Hands on Practice
13:00 – 14:00	Lunch – <i>MSB UG floor</i>
14:00 – 15:00	Refining and Debugging AI-Generated Code for Numerical Solvers
15:00 – 16:00	Group Work
16:00 – 16:30	Tea Break – <i>MSB UG floor</i>
16:30 – 17:30	Group Work