COURSE SPECIFICATION FORM
for new course proposals and course amendments

Department/School:	Mathematics		Academic Session:	2020-21
Course Title:	Applications of Scientific Programming		**Course Value:** (UG courses = unit value, PG courses = notional learning hours)	20 credits
Course Code:	MT5450		**Course JACS Code:** (Please contact Data Management for advice)	G170
Availability: (Please state which teaching terms)	Term 1		**Status:**	Optional
Pre-requisites:			**Co-requisites:**	None
Co-ordinator:				
Course Staff:				
Learning Objectives:	This module will introduce mathematics students to the basics of computer programming by building solutions to mathematics-based tasks. It is designed to encourage deeper understanding of the mathematics learned elsewhere in the degree, as well as developing general mathematical skills such as how to structure a solution and understand logical flow.			
Learning Outcomes:	By the end of the module, a student will be able to write computer programs that demonstrate and apply mathematical concepts, demonstrate the ability to work in a professional setting, and demonstrate independent learning skills.			
Teaching & Learning Methods:	10 hours of lectures, 10 hours seminars, 1h tutorial, 6h demonstration, 30h workshops. 93 hours of private study. This may include discussions with the course leader if the student wishes.			
Key Bibliography:				
Formative Assessment & Feedback:				
Summative Assessment:	**Exam** No exam. **Coursework** Set exercises 55%; Employability exercises 10%; Group project 35%			

Updated January 2020

The information contained in this course outline is correct at the time of publication, but may be subject to change as part of the Department's policy of continuous improvement and development. Every effort will be made to notify you of any such changes.