

## Liverpool John Moores University

Title: PROJECT  
Status: Definitive  
Code: **6100MATHS** (124202)  
Version Start Date: 01-08-2021

Owning School/Faculty: Computer Science and Mathematics  
Teaching School/Faculty: Computer Science and Mathematics

Team	Leader
Ian Malabar	Y

**Academic Level:** FHEQ6  
**Credit Value:** 40  
**Total Delivered Hours:** 22  
**Total Learning Hours:** 400  
**Private Study:** 378

### Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	6
Seminar	16

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Presentation	AS1	Presentation to show progress midway through project.	10	
Presentation	AS2	Poster presentation summarising findings of the completed project.	10	
Report	AS3	Project report.	80	

### Aims

*To develop and widen the student's experience of tackling a substantial realistic problem selected from the domain of their programme by carrying out independent, yet supervised, research.*

*To extend the students ability to communicate the solution to a significant problem.*

## Learning Outcomes

After completing the module the student should be able to:

- 1 Distinguish and analyse a problem specification.
- 2 Formulate a solution for the problem.
- 3 Carry out research which employs the appropriate investigation, analysis, design and realisation of the problem.
- 4 Critically evaluate progress on the problem, midway through the project.
- 5 Effectively summarise the findings of the project.
- 6 Critically review the solution and results of the project.

## Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

Powerpoint Presentation	4				
Poster Presentation	5				
Project Report	1	2	3	6	

## Outline Syllabus

*Each research project is different but would be expected to include:*

*Identification of a problem within mathematics or statistics.*

*Background research on chosen topic.*

*Discussion of idea with a member of staff leading to the basis for the research project specification.*

*Development of a research project specification.*

*Once the specification has been approved then the student works on the research project with guidance from their supervisor.*

*Research into potential solutions, analysis and evolution of solutions.*

*Project presentation to show project progress midway through project.*

*Poster presentation summarising the findings at the end of the project.*

*Write up of project to form final project report.*

## Learning Activities

Introductory lectures are provided to guide students on how to carry out a substantial research project. These are on Project Specification, Research Methods, Project Structure, Literature Review, Data Analysis and Plagiarism.

Students will attend weekly guidance sessions in the form of seminars which will cover project progress, research carried out, discussions regarding direction of research, project planning and management and report writing.

## Notes

This module presents the student with the opportunity to complete a substantial research project with appropriate documentation at each stage.

The student will select a project from a list of research areas or by proposing a suitable project him or herself. In particular, students are encouraged to bring a suitable project from their industrial placement. The student may consult those staff proposing projects before making their selection. A supervisor and moderator for the selected project will be assigned. The supervisor will normally be the proposer of the project, but this may not always be possible. A formal specification of the proposed research will be written by the student within two weeks of the commencement and agreed by both the student and supervisor. The student will then be expected to carry out the necessary research in accordance with the specification. The student is required to report progress to his or her supervisor on at least a fortnightly basis and can expect weekly contact if they so desire. More frequent contact with the supervisor can be arranged on a mutually agreed basis.