

MODULE DESCRIPTOR

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| MODULE TITLE | MATHEMATICS PROJECT | | |
| MODULE CODE | MA3999 (L6) | CREDIT VALUE | 20 CREDITS (10 ECTS) |
| CAMPUS | UCLAN CYPRUS | | |
| SCHOOL | SCHOOL OF SCIENCE | | |

MODULE AIMS

The aims of the module are:

1. To provide students with the opportunity to study a particular area of mathematics which is of interest to them.
2. To demonstrate students' skills in writing mathematics in a clear and logical way.
3. To provide students with the opportunity to develop and display their transferable skills.
4. To encourage students to learn independently and become 'lifelong learners'.

MODULE CONTENT

Project titles are chosen by students from an approved list provided to them during progression in their second year. Each project title has a "specification form" which states the required pre-requisite modules, and outlines the necessary criteria to obtain different classifications.

INTENDED LEARNING OUTCOMES

| On successful completion of this module a student will be able to: | |
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| 1. | Plan and successfully execute an extended, individual piece of work. |
| 2. | Use logical argument based upon knowledge acquired in some area of mathematics. |
| 3. | Manage their time effectively to meet deadlines. |
| 4. | Write a substantial report of their work in a clear and logical fashion. |
| 5. | Communicate mathematics and answer questions about their project verbally. |

TEACHING METHODS

Students will choose a mathematical topic from an approved list. They will then learn about this topic from various sources depending on the nature of the topic. This could be working from a specific text, from a set of papers etc. Generally speaking "pure mathematics" is studied more like a reading course, where the students develop a theoretical understanding of a particular topic, whereas "applied mathematics" is studied like a traditionally understood project, with the students developing and studying mathematical models of various types of real-world system. Students will get regular sessions for tutor help/guidance.

Three classroom sessions are delivered at appropriate points in the academic year. These focus on the topics "Managing your project", "Writing your Report", and "Preparing for your Viva".

The assessment method is for the student to write a report on their topic; the student's understanding of the submitted material is assessed through reading the report and then giving the student a viva around the report (as per the style for a PhD thesis examination). In this form of assessment there is no weighting for the report to viva but instead they are viewed as parts of a "single assessment".

ASSESSMENT METHODS

The module is assessed through a Project report + viva.