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Title: Post ITT Subject Knowledge Enhancement in Mathematics
 Status: Definitive
 Code: **6001PITTM** (119371)
 Version Start Date: 01-08-2018
 Owing School/Faculty: Education
 Teaching School/Faculty: Education

| Team | Leader |
|------------|--------|
| Gill Adams | Y |

Academic Level: FHEQ6 **Credit Value:** 1 **Total Delivered Hours:** 400
Total Learning Hours: 10 **Private Study:** -390

Delivery Options

Course typically offered: Non Standard Year Long

| Component | Contact Hours |
|-----------|---------------|
| Lecture | 100 |
| Online | 200 |
| Seminar | 100 |

Grading Basis: Pass/Not Pass

Assessment Details

| Category | Short Description | Description | Weighting (%) | Exam Duration |
|----------|-------------------|-------------|---------------|---------------|
| Practice | AS1 | | 100 | |

Aims

The course will enable those who successfully complete the module to teach the National Curriculum in mathematics in the age range 11 – 16.

We believe that a fundamental part of the role of the mathematics teacher is to promote the learning of mathematics at all levels in the secondary school and to make the study of mathematics relevant and exciting for all the students that they

teach.

Learning Outcomes

After completing the module the student should be able to:

- 1 Demonstrate systematic knowledge and understanding of fundamental concepts in mathematics as they relate to the 11-16 curriculum.
- 2 Develop pedagogy to facilitate learners' conceptual understanding of mathematics.

Learning Outcomes of Assessments

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

| | | |
|----------|---|---|
| PRACTICE | 1 | 2 |
|----------|---|---|

Outline Syllabus

TBC

- 1. Demonstrate systematic knowledge and understanding of fundamental concepts in mathematics as they relate to the 11-16 curriculum*
- 2. Critically analyse learners' conceptual understanding of mathematics*
- 3. Critically analyse an aspect of teaching and learning in mathematics*
- 4. Interrogate research literature to provide a critique of pedagogy in mathematics, articulate complex ideas using appropriate language and style*

Learning Activities

Mathematical concepts will be explored in of interactive lectures and workshops backed up by tasks for independent learning. These will use a mix of media e.g. web-based materials including video tutorials and on-line practice exercises, practical activities using ICT as well as more traditional text-book approaches.

Notes

This module extends introduces students to the principal concepts underlying mathematics.