

Post Graduate Certificate in HE Pre-Observation Planning Form

Lecturer's name Dr. Graham Brindley      Observer's name      Peter Rowlett

Date 25/04/08      Venue      ERD193

Module Mathematical Techniques      Learner group Physicists

Number of learners 30      Time of observation 11am-12noon

Main teaching method lecture

A completed copy of this form should be given (or sent electronically) to your observer for discussion at the pre-observation meeting.

Aims of the session

Learning outcomes to be achieved during this session

Knowledge and understanding of

Line integrals  
Scalar potentials

Learners – give a brief description of why you know about them

Students are physicists in year 1.  
This is a year long module. Students are using mathematics in their physics course so the material is taught for its applicability rather than for its own sake.

Teaching methods rationale: appropriateness to the required aims and learning outcomes, learner needs, subject content, resource availability and equal opportunities

Methods:  
Explanation  
Examples  
Students do examples

Mathematics must be practiced to be understood

Timed session plan: structure and content

5 minutes	:	define 3-D Line Integral
5 minutes	:	define parametric path
10 minutes	:	students doing examples
10 minutes	:	conservative fields
10 minutes	:	scalar potentials
10 minutes	:	students doing examples

Opportunities for learner participation and learner interaction in the session, and learner feedback on the session.

During exercises, learners participate by having a go at the techniques being taught and this provides feedback also.

Assessment: how I will identify the extent of the student's learning during this session.

If the students are answering the questions correctly they have learned to apply the techniques.

Particular aspects that I would like feedback on related to my own development as a teacher?

Are the concepts understandable to the students in the class?