

Module Descriptor

Module Title: Becoming an Effective Laboratory Demonstrator

Prerequisite Knowledge

This module will be delivered and assessed mainly online and students must have appropriate IT skills to access materials and fully participate in the online activities. Subject knowledge is required in the appropriate engineering discipline along with a desire to better understand how to support students to learn and understand fundamental and threshold knowledge in laboratories.

Module Structure:

<u>Activity Type</u>	<u>Total Hrs</u>
Assessment;	6
Independent learning;	36
Seminars/Workshops;	4
Online tasks;	12
Offline information search;	10
Online discussion.	12

Summary of Contents

This module provides support and professional development for Laboratory Demonstrators who intend to teach students in Engineering Laboratories. It has been designed for new demonstrators and aims to provide practical ideas and teaching strategies to help ensure confident engagement and communication with students that facilitates them to achieve learning outcomes. The module is designed to be generic and it will be supplemented by discipline specific laboratory activity, information and support provided by other academic staff.



Learning Outcomes

On completion of the module, Laboratory Demonstrators should be able to:

- Identify, informed by research in educational practice, the important role of a Laboratory Demonstrator.
- Demonstrate an appropriate level of preparation for laboratory classes.
- Illustrate best practice in Health and Safety in accordance with institutional guidelines.
- Create a lesson plan that shows confident engagement with the students' learning process.
- Evaluate and reflect on their teaching practice.

Learning Strategy

This module will begin with an introductory face to face workshop and will then be delivered by distance learning. Laboratory Demonstrators will be presented with weekly reading and online material to encourage them to develop their knowledge and skills. Individual logbooks will be used to facilitate reflection and a WIKI will be provided to enable online discussion and the sharing of good practice. Progress in the module will be assessed by participation in the online activities and will include fortnightly computer based assessments. Peer observation of teaching will also be part of the module providing additional development and feedback.

Syllabus

Taught subjects will include:

- The role of a Laboratory Demonstrator
- Preparation for teaching your laboratory class
- Health and Safety aspects of laboratory practice
- Creating your teaching strategies for laboratory classes
- Guide to student assessment and feedback
- Evaluating your laboratory class practice

Indicative Reading

Appropriate reading material will be provided online throughout the module.

Assessment Methods

Online tests are provided for self-learning analysis	50%
Online discussion and reflection	20%
Peer observation session	30%

