	Reference EN4800 SCQF SCQF	
Module Title	Level 10	
Science Of Management	SCQF Points 15	
	ECTS Points 7.5	
Keywords	Created May 2002	
Deming's System Of Profound Knowledge, Systems Thinking, Theory Of Knowledge,	Approved March 2004	
Statistical Process Control, Psychology	Amended September 2012	
	Version No. 2	

This Version is No Longer Current

The latest version of this module is available here

Prerequisites for Module	Indicative Student Workload		d
		Full	Part
None.	Contact Hours	Time	Time
Corequisite Modules	Assessment (supervised)	3	3
	Lectures/Tutorials	36	36
None.	Other Assessment	0	0
Precluded Modules	Directed Study	21	21
None.		21	21
Aims of Module	Private Study	90	90
To provide the student with the ability to evaluate the	Mode of Delivery		
scientific basis of management ideas and techniques, particularly in relation to the use of statistics and the	THis is a lecture-based course supplemented with tutorial and student-centred learning.		

Assessment Plan

Learning Outcomes for

teaching of W. Edwards

Deming.

Learning Outcomes
Assessed

MUUUIC

On completion of this module, students are expected to be able to:

- 1.Identify the theoretical basis of current management thinking and the need for a scientific approach to management theory.
- 2.Discuss, evaluate and assess the contribution of W. Edwards Deming's System of Profound Knowledge to the future development of management thinking.
- 3. Apply an understanding of variation and statistical process control techniques to the improvement of processes.

Indicative Module Content

Introduction to the theories that underpin current management thinking. The need for change in thinking rather than techniques. The work of W Edwards Deming. The System of Profound Knowledge: Systems thinking, some knowledge of psychology and variation, theory of knowledge. The need to continually learn. Deming's 14 points. Study of statistical techniques: Introduction to Taguchi experiments, sampling regimes, run charting

Component	1 2 2
1	1,2,5

Component 1 is a closed book exam covering all learning outcomes. (100% weighting)

Indicative Bibliography

- 1.DEMING, W. E., 1996. The New Economics. 2nd ed. Cambridge: MIT Press.
- 2.NEAVE, H., 1998. The Deming Dimension, Knoxville: SPC Press.

and SPC. Identification of process improvement strategies.