

Module Title Science Of Management	Reference EN4800 SCQF SCQF Level 10 SCQF Points 15 ECTS Points 7.5 Created May 2002 Approved March 2004 Amended June 2001 Version No. 1
Keywords Deming's System Of Profound Knowledge, Systems Thinking, Theory Of Knowledge, Statistical Process Control, Psychology	

This Version is No Longer Current

The latest version of this module is available [here](#)

Prerequisites for Module

None.

Corequisite Modules

None.

Precluded Modules

None.

Aims of Module

To provide the student with the ability to evaluate the scientific basis of management ideas and techniques, particularly in relation to the use of statistics and the teaching of W. Edwards Deming.

Learning Outcomes for Module

Indicative Student Workload

<i>Contact Hours</i>	Full Time
Lectures/Tutorials	36
Assessment (supervised)	3
Other Assessment	0
<i>Directed Study</i>	22
<i>Private Study</i>	90

Mode of Delivery

THIS is a lecture-based course supplemented with tutorial, and student-centred learning.

Assessment Plan

Learning Outcomes Assessed

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 and SPC. Identification of process improvement strategies.

Component 1	1,2,3
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Component 1 is a closed book exam covering all learning outcomes.

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.

