Module Title:	Pharmaceutical Microbiolgy
Academic year:	2009 2010
Credit Value:	7
Pre- requisites:	None
Assessment:	Final written exam: 50% Practical Assessment: 35% Continuous Assessment: 15%.
Aims	This module aims to provide the student with: the essential features of microbiology relevant to the pharmaceutical industry.
Module Content	Microbial ecology and the spoilage of pharmaceutical products Introduction to cleanroom technology Quantification of viable microorganisms Identification of common microbial types Sterilisation Disinfection and cleaning Water as a critical ingredient and source of bacteria: Microbiological standards in the pharmaceutical industry:

Intended Learning Outcomes: (September 2007)	Having successfully completed this subject the student will: Be able to identify the key growth parameters required by micro-organisms Be able to identify the cause of spoilage of pharmaceutical products. Be able to appreciate the importance of product formulation in terms of control of spoilage. Be able to enumerate micro-organisms. Be able to identify common bacteria. Be able to understand the principles and commonly used methods of sterilisation used in the pharmaceutical industry Be familiar with cleanroom technology used to prevent contamination of pharmaceutical products Be able to source and interpret relevant standards.