Module Title:	**Principles of Chemistry I** – Semester 1
Academic year:	2008 – 2009
Credit Value:	5 – Mandatory
Pre- requisites:	None
Module Content	• Introduction • Matter and Energy • Atomic structure • The Periodic Table & Periodic Properties • Compounds • Acids, Bases and Ionic compounds • Units of measurement and calculations • Chemical Sterilants
Intended Learning Outcomes: (September 2007)	**On successful completion of this module the student will be expected to be able to:** 1. Define and distinguish the fundamental laws and principles of elementary chemistry 2. Distinguish the different types of matter – by state and chemical type –and describe their properties. 3. Assign the number of sub atomic species in each of the early elements 4. Use the Periodic Tables to predict an element's and a compound's chemical and physical properties. 5. Distinguish between acid, base, salt and buffer solutions. 6. Identify and take suitable precautions for dealing with day to day hazards in the chemistry laboratory. 7. Have gained competency in laboratory calculations involving the preparation of working solutions. 8. Write experimental reports concisely and in proper scientific format. 9. Describe a range of volumetric analyses to include acid/base titrations. 10. Explain the properties of chemical sterilants.