Module code	SC-1281		
Module Title	Computer Skills for Chemistry		
Degree/Diploma	Bachelor of Science (Chemistry)		
Type of Module	Major Core		
Modular Credits	4	Total student Workload	10 hours/week
		Contact hours	4 hours/week
Prerequisite	None		
Anti-requisite	SC-1381		

Aims

To use relevant software and online resources for effective communication and transmission of chemical information.

Learning Outcomes

On successful completion of this module, a student will be expected to be able to:

Lower order :	10%	- identify and recognise available computer programs and software that are relevant to chemistry and be able to use them
Middle order :	10%	- apply these computer programs and software in addressing chemistry tasks and problems - collect, analyse and manage chemical information using these programs and software
Higher order:	80%	- transform chemical information from one domain to another - create, design and visualise chemical information - interpret the results of analyses and online scientific material in a critical manner - produce reports and presentation materials for effective verbal, written, online communication and scientific publication - work independently and in a group become an effective team player

Module Contents

- Software, freeware and applications that are useful to the practice and communication of chemistry to scientific peers and general public
- Using software for drawing chemical structures and laboratory setups
- Using software for data collection, tabulation and analyses
- Using software for creating softcopy and hardcopy presentation materials (posters, slide presentations)
- Online scientific literature search strategies and search engines
- Using software for collecting and managing scientific literature
- Using software to create publication-style reports and documents
- Note that this module is not software-specific due to dynamic and transient nature of available software.

Assessment	Formative assessment	Weekly exercises will be used to test and to give feedback for their learning.
	Summative assessment	Coursework: 100% - 8 reports (50%) - 3 computer-based examinations (50%)