COURSE INFORMATION

Faculty	GFP
Program	Computing

1. General Course Information

1.1. Course Title: Computing Fundamentals

1.2. Course Code: IC3M2

1.3. Course Level: **GFP**

1.4. Course Credit Units: NA

2. Course Learning Outcomes

2.1. Course Learning Outcomes mapping with Program Learning Outcomes

Course Learning Outcomes	Program Learning Outcomes
Upon completion of the course, students are expected to be able to:	
A. Knowledge and Understanding	
A.1. Compare the different types of computers and their purposes.	17
A.2. Describe the function of different hardware components such as CPU, storage systems, types of memories like RAM, ROM etc. and common input and output devices and describe how they work in sequence to process information.	18
A.3. Identify and explain the different types of software: operating systems, application software and programming software and the explain the terms shareware, freeware, end-user license agreement and the concept of software copyright.	19
A.4. Identify the basic knowledge of computer ergonomics (seating, lighting, positioning, ventilation etc.) and explain the common health problems associated with computer usage and ways to avoid them.	20
A.5. Identify the Omani data protection legislation.	21
B. Cognitive/Intellectual Skills	
B.1. Explore network fundamentals, types and the benefits and risk of network computing.	22
B.2. Evaluate the effect of IT on our lives and on society generally and explain how to get protected from network issues, viruses, and hackers etc.	23

B.3. Explore the requirements of a computer suitable for purchasing for student usage.	24
C. Practical Skills	
C.1. Illustrate the terms Hertz and byte.	25
C.2. Show how to install and uninstall software.	26
C.3. Illustrate the hierarchical structure of drives, files and folders and identify the meaning of file extension.	27
C.4. Use Windows operating system to manage files and folders easily by creating, deleting, and copying, moving, and compressing / decompressing files and using Settings' options.	28
C.5. Use web browsers to browse information over the internet and deal with their tools and options.	29
C.6. Show how electronic mail works including the components of electronic mail message, electronic mail address, and electronic mail options.	30
C.7. Employ the basics of computer maintenance skills such as formatting of removable media, backup data, using good passwords, and logging on and off a computer.	31