Port Moresby International School

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Unit & Assessment Semester Outline for Students & Parents Grades 11 – 12.

Year	**2026**	Semester	**2**	Grade	**11**	Unit Value	**1.0**
Curriculum		**ACT-A / PNG-ICT**					
Subject Title/s		**Information, Digital Media and Technology**					
Course Name		**Digital Technologies**					
Unit Name		**Digital Applications**					
Course Code		**1593**		Unit Code		**16252**	

Assessment

Week Due	Topic(s)	Type of Task	Weighting
W6	Relational Database	Theory Test	20%
W9	Relational Database	Practical Assignment	30%
W3	Use Computer Operating systems and Hardware/Software Installation	Practical Tasks	30%
W5	Use Computer Operating systems and Hardware/Software Installation	Theory Test	20%

Learning outcomes against which the students will be reported

1. Evaluates and analyses problems to devise solutions and synthesizes knowledge of the composition of a system or application
2. Creates solutions using effective problem solving methodology, design techniques, tools, skills and processes with refined skills in planning, time management and designing
3. Presents concepts accurately and coherently using a range of written and non-written formats.
4. Demonstrates creativity and agility in applying processes and techniques to familiar and unfamiliar scenarios

Course Aims/Goals

Students will be assessed on the degree to which they demonstrate:

- knowledge, understanding, application, analysis and evaluation
- planning, designing, creating and implementing
- communication and interpersonal skills
- flexible, adaptive and creative thinking

Regulations governing Late Submission of Work, Non-Submission of Work, Attendance, Cheating/Plagiarism & Rights of Appeal may be found in the Grade 11-12 Curriculum Handbooks, or from the POMIS website;

www.pmis.iea.ac.pg

Content Outline

Weeks	Content Outline	Curriculum Links
1 - 2	Diagnostic Test - Databases / Concept of "organisation"/Manual vs computerized databases/ Database concepts & terminologies / Structured Query Language (SQL) / Flat-file vs. Relational databases.	PNGUS-ICT ACT BSSS
3 - 4	Normalisation / Database Management System (DBMS) features & functions / Using MS Access - Creating tables (fields, records, data types, field properties), creating forms, creating queries, creating reports. Relational Database Project.	PNGUS-ICT ACT BSSS
5 - 6	Creating macros and switchboards / Relational Database Theory Test / Relational Database Project specifications. Relational Database Project.	PNGUS-ICT ACT BSSS
7 - 8	Continue work on designing database project – forms, queries and reports. Create user inface (login form).	PNGUS-ICT ACT BSSS
9 - 10	Revise and catch up with incomplete tasks.	PNGUS-ICT ACT BSSS
11 - 12	**Computer Fundamentals** - Describe the major types (classes) of computers and the factors used in classifying these computers. Hardware Basics – Identify external and internal parts of a computer. Identify and discuss different types of memory and storage devices.	PNGUS-ICT ACT BSSS
13 - 14	Computer generations – different technologies that define each generation. Practical assessment on hardware identifications and installation. **Information processing cycle**: input, processing, storage, output and communication. Understand hardware devices used for input, processing, storage and output.	PNGUS-ICT ACT BSSS
15 - 16	**Components of a computer system**. Hardware and Software/Malicious software. Hardware Basics- Peripherals. List examples of various input and output devices and how information is processed and becomes useful to an organization. Identify and various functions of input, out and storages devices, primary and secondary storages, peripheral devices. Assessment: Types of computers and their uses in the cultural context.	PNGUS-ICT ACT BSSS
17 - 18	Software Basics- The Ghost in the Machine. Identify categories of software and their relationship. Understand the relationship of algorithms to software. Compare and contrast Computer applications from Web applications. Discuss file system organisation, Graphical user interface and Command line user interfaces. Challenges of applying intellectual property laws to software. Use of various productivity applications.	PNGUS-ICT ACT BSSS
19 - 20	Review Topics cover in grade 11 and look at other PNG US ICT Topics. Work on additional (supplementary) TAFE assessments tasks.	PNGUS-ICT ACT BSSS