Unit Title			Unit Number
Fundamentals in Computer Systems			SEC4101

Level		Credits	
4		10	

Module Leader/ Internal Verifier
Chathura N . Warnasuriya

Assessment Methods

Assessment Type	Duration/Length of Assessment Type	Weighting of Assessment	Approximate Date of Submission
MCQ Exam	2 hours	20%	After 6th Session
Coursework	Report - 3000 words	35%	End of the module
Practical Test	2 hours	45%	End of the module

Aim(s)

The unit aims to provide the learners a basic understanding of the components of a computer system and be familiar with common terminologies, concepts, and requirement of computer systems to different contexts and organizations

Learning Outcomes

After completing the modules, the learners will have the knowledge and skills in,

- Understand the environment of computer systems.
- Understand hardware and software components of a computer system.
- Be able to recommend a suitable computer system for a specific requirement
- Be able to test and maintain a computer system

Learning and Teaching Delivery Methods

Lectures	12 hours
Practical	06 hours
Tutorials	06 hours
Student Centered Learning	76 hours

Total hours	100 hours

Indicative Content

- Understand different types of computers (personal computers, mini computers work station and mainframe computers) and servers
- Understand different environments and applications of computer systems such as home, business, computer gaming, network and communication
- Understand the basics of computer networks.
- Understand the computer generations.
- Understand the computer hardware components.
- Understand the computer software types.
- Understand Basics of computer Peripherals
- Identify the requirement, evaluate the requirement, finding the existing system configuration, compare with required and available resources. Develop the report for required resources.
- System Installation
- Understand the primary configuration eg: Basic Input Output System (BIOS) eg date/time, password, power management.
- Understand the needs of different clients, organizations, contexts and environments. Evaluate the needs, cost/ benefit analysis, Suggest suitable solutions, justify the solutions.
- Evaluate the customer requirements
- *Documentation:* Support user manuals, online support mechanism , Help Desk;, peripheral devices; software installation guide
- *Maintenance* and *Back up* : develop the backup process, backup schedule, auto backup and manual backup process.

Recommended Reading & Required Reading

Required Reading/Learning Materials

- Fundamentals of Computer Systems
- Anfinsin, D – *IT Essentials: PC Hardware and Software Companion Guide* (Cisco Press, 2010) ISBN 158713263X

- Dick, D – *The PC Support Handbook: The Configuration and Systems Guide* (Dumbreck Publishing, 2009) ISBN 9780954171131

Access to Specialist Requirements