Module code	SS-4306
Module Title	Science of Multimedia
Degree/Diploma	Bachelor of Science (Computer Science)
Type of Module	Major Option

Modular Credits	4	Total student Workload	10	hours/week
		Contact hours	4	hours/week

Prerequisite	SS-2202 Algorithms and Data Structures
Anti-requisite	None

Aims

This module provides a foundation in the design and production of rich interactive media content suitable for use in commercial, educational and industrial setting.

Learning Outcomes

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

Lower order :	20%	- explain various techniques involved in multimedia content production
Middle order :	60%	- describe processes involved in multimedia content management - differentiate between the different compression techniques
Higher order:	20%	- apply and implement compression techniques used in multimedia applications

Module Contents

- Elements in a multimedia content such as sound and audio, image and graphics, animation and video
- Understanding of human sensory perception for effective multimedia presentations.
- Compression and decompression of multimedia contents
- Audio compression, image compression and video compression are subject to fidelity versus size trade-off
- Multimedia applications including data visualization and virtual reality

Assessment	Formative assessment	Interactive Quizzes and Feedback
	Summative assessment	Examination: 50%
		Coursework: 50% - 2 class tests (20%) - 2 written assignments (30%)