

Summary Information

Module Code	4207AMP
Formal Module Title	Computing and Video Tools
Owning School	Engineering
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 4
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery
Engineering

Learning Methods

Learning Method Type	Hours
Lecture	22
Practical	33

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
SEP-CTY	CTY	September	12 Weeks

Aims and Outcomes

Aims	The module introduces the students to aspects of optics and computing which are central to the equipment required to operate in this field.
------	---

After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Identify and evaluate the computing related components within industry equipment.
MLO2	2	Discuss the impact of various computing related issues on equipment performance.

Module Content

Outline Syllabus	Computers – processors, storage, IO, internal connectivity Computing devices – tablets, phones, laptops, desktops, workstations, servers and clients Light –velocity, frequency, wavelength, propagation through different materials, Lenses – size, shape, structure Concepts of analogue and digital representation and conversion Optical sensors Exposure Value Cameras: smartphones, tablets, webcams, compact cameras, DSLR, OB cameras, studio cameras Video file formats Image processing and storage Streaming of video content
Module Overview	
Additional Information	The module introduces aspects of computing and optics to media tools. This includes discussions on capturing essence and comparisons between various device types and their performance. Critical aspects of computing which are central to these devices are examined.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Presentation	Class Test	40	0	MLO1
Presentation	Video Based Assessment	60	0	MLO2

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Ronan McMahon	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings
--------------	--------------------------	-----------