

MODULE SPECIFICATION PROFORMA

<b>Module Title:</b>	Lighting and Colour	<b>Level:</b>	4	<b>Credit Value:</b>	20
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<b>Module code:</b>	CMT407	<b>Is this a new module?</b>	No	<b>Code of module being replaced:</b>	
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<b>Cost Centre:</b>	GACT	<b>JACS3 code:</b>	J900
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<b>Trimester(s) in which to be offered:</b>	2	<b>With effect from:</b>	September 16
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<b>School:</b>	Creative Arts	<b>Module Leader:</b>	Steve Davies
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Scheduled learning and teaching hours	48 hrs
Guided independent study	152 hrs
Placement	0 hrs
<b>Module duration (total hours)</b>	<b>200 hrs</b>

<b>Programme(s) in which to be offered</b>	Core	Option
BSc (Hons) Television Production and Technology	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BSc (Hons) Professional Sound & Vision	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>

<b>Pre-requisites</b>
None

Office use only

Initial approval August 16

APSC approval of modification *Enter date of approval*

Have any derogations received SQC approval?

Version 1

Yes  No

**Module Aims**

To introduce the student to television lighting techniques and technologies.  
 To give the student the ability to design lighting solutions to various scenarios based upon a practical understanding of electrical and physical factors.  
 To enable the student to understand and design control systems for lighting.  
 To instruct the student in health and safety considerations regarding lighting and overhead working.  
 To enable the student to engage as a team member in the production environment.

**Intended Learning Outcomes**

Key skills for employability

- KS1 Written, oral and media communication skills
- KS2 Leadership, team working and networking skills
- KS3 Opportunity, creativity and problem solving skills
- KS4 Information technology skills and digital literacy
- KS5 Information management skills
- KS6 Research skills
- KS7 Intercultural and sustainability skills
- KS8 Career management skills
- KS9 Learning to learn (managing personal and professional development, self-management)
- KS10 Numeracy

At the end of this module, students will be able to

Key Skills

At the end of this module, students will be able to		Key Skills	
1	Practically demonstrate a professional standard in lighting a TV studio, taking into account current health and safety legislation.	KS1	KS2
		KS3	KS4
		KS8	KS10
2	Appreciate and creatively apply lighting and colour in various production scenarios, and understand the impact on the programme output.	KS1	KS2
		KS3	KS4
		KS8	KS10
3	Apply the operation of lighting control protocols such as DMX	KS1	KS2
		KS3	KS4
		KS8	KS10
4	Consider and apply the electrical and physical limitations of lighting components.	KS1	KS2
		KS3	KS4
		KS8	KS10

Transferable/key skills and other attributes

Working as part of a team.

**Derogations**

None

**Assessment:**

Students will be assessed on the application and understanding of lighting systems within a TV production environment. The assessment comprises of two distinct elements.

- A practical operational test covering the safe rigging and application of lighting in the studio. This to include the operation and control of the lighting rig and grid applied to a commonly encountered scenario.
- A technical report appraising the lighting system within the studio, focussing upon its strengths and limitations in a practical context. The report will expand upon lighting systems in general, demonstrating applied research into current lighting technology.

Assessment number	Learning Outcomes to be met	Type of assessment	Weighting (%)	Duration (if exam)	Word count (or equivalent if appropriate)
1	1,2	Practical	40%		
2	3,4	Report	60%		2000

**Learning and Teaching Strategies:**

The learning and teaching strategy will rely on the application of the key skills taught in lectures based on the working environment of a TV studio.

This to be developed through lectures and technical demonstrations to give the student a complete insight into the operation of lighting within the studio. This will begin with an introduction to the overarching concepts of light and colour, supported by an introduction to the various technologies used to deliver this in the studio. Control mechanisms will be covered with an emphasis on DMX and digital control from lighting desks and computer based systems.

**Syllabus outline:**

The module will explore the techniques employed to light various studio scenarios and explore the impact of colour and light on the broadcast output.

Topics covered will include:  
Principles of light and colour.  
Luminaires and lighting units.  
Health and Safety.

DMX and control.  
Level measurement and colour temperature.  
Plotting and Focussing.  
Electrical Loading.  
Standalone and Computer based control.  
Level and Colour monitoring using Ultrascope.

**Bibliography:**

**Essential reading**

Biver, S. Fuqua, P. Hunter, F. (2007) Light: Science and Magic. Focal Press.  
Cuttle, C. (2015) Lighting Design a perception-based approach. Routledge.  
Millerson, G.(1999) Lighting for TV and Film. Routledge.

**Other indicative reading**

Cooper, N. (2011) How to light & shoot interviews for TV & Video: Using the three point lighting technique. Kindle.  
Glowman, C. LeTourneau,T. (2012) Placing Shadows:Lighting techniques for Video Production. Kindle.