



## UNIVERSITI TEKNOLOGI MARA

### FFC532: MOTION PICTURE LIGHTING

<b>Course Name (English)</b>	MOTION PICTURE LIGHTING <b>APPROVED</b>
<b>Course Code</b>	FFC532
<b>MQF Credit</b>	3
<b>Course Description</b>	This course exposes and train students to practical cinematography, the principles of film lighting with in-depth technical plus theoretical explanations, and hands-on experience. Lighting is a vital aspect of cinematic storytelling. Although the aim of this course is to equip student with basic lighting skills as well as how they apply to the visualization of a narrative or idea, this course would also increase student understanding of 'control of light' and, giving them confidence to cope with various lighting scenarios. Through a series of hands on exercises student will explore how to control their images. This course will be taught by combination of lectures, workshops, and tutorials.
<b>Transferable Skills</b>	Creating ideas, solving problems, extracting important information, analyzing, conceptualizing, designing model, delegating with respect, implementing decisions, cooperation, attending to detail, making decisions
<b>Teaching Methodologies</b>	Studio, Demonstrations, Practical Classes, Tutorial, Presentation, Workshop
<b>CLO</b>	CLO1 Introduction to the relationship between form, content, and technological aspects of film lighting. CLO2 Display appropriate skills to design lighting to present a scene set in relation to story, style and dramatic content. CLO3 Demonstrate understanding of various film lighting theories and techniques, as well as able to cope with various story settings.
<b>Pre-Requisite Courses</b>	No course recommendations
<b>Topics</b>	
<b>1. Introduction – What is visible light?</b> 1.1) Electromagnetic radiation/wave 1.2) Gamma curves and colour balance 1.3) White light	
<b>2. How we describe light and its properties?</b> 2.1) Reflection, refraction, dispersion, diffraction 2.2) Polarisation 2.3) Discover your camera's sensitivity 2.4) Lights and lenses	
<b>3. Lighting style</b> 3.1) Screening / Discussion	
<b>4. Film lighting 1</b> 4.1) Narrative film lighting 4.2) Colour temperature 4.3) Natural vs. artificial	
<b>5. Film lighting 2</b> 5.1) Instrument 5.2) • Grip work & safety 5.3) • Studio 5.4) • Location 5.5) ii. Qualities of light 5.6) Light intensities 5.7) Exposure control in digital and film cameras	

<p><b>6. Film lighting 3</b>  6.1) Light latitude  6.2) Professional cinematographers and gaffers opinion  6.3) Continuity</p>
<p><b>7. 3-point lighting exercise 1</b>  7.1) Modelling with light  7.2) The three points (Key light, Fill light, Backlight)  7.3) Lighting for digital</p>
<p><b>8. 3-point lighting exercise 2</b>  8.1) Key-to-Fill ratios  8.2) Low Key-to-Fill ratios  8.3) High Key-to-Fill ratios  8.4) Backlight</p>
<p><b>9. On-location exercise 1</b>  9.1) Time sensitive conditions  9.2) Working with natural light</p>
<p><b>10. On-location exercise 2</b>  10.1) Location lighting problems  10.2) • Day-for-Night  10.3) • Magic Hour  10.4) • INT/EXT scene, etc.</p>
<p><b>11. On-location exercise 3</b>  11.1) Location lighting problems  11.2) • Night-for-Night  11.3) • Vehicle Lighting</p>
<p><b>12. Green screen and miniature lighting exercises 1</b>  12.1) Mattes and compositing  12.2) Story/Shooting board</p>
<p><b>13. Green screen and miniature lighting exercises 2</b>  13.1) Matching your subjects to the setting</p>
<p><b>14. Green screen and miniature lighting exercises 3</b>  14.1) Interacting with the background and objects  14.2) Colour balancing the subject and background</p>

Assessment Breakdown	%
Continuous Assessment	100.00%

Details of Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Practical	The test is to assess students understanding of various film lighting theories and techniques, as well as able to cope with various story settings.	40%	CLO3
	Presentation	One (1) presentation with programme panels to assess student's knowledge of fundamental concepts of film lighting.	20%	CLO1
	Test	Twenty (20) Multiple Choice Question plus, four (4) short answers to assess student's interest of film lighting theories and practices.	40%	CLO2

Reading List	Recommended Text	• Blain Brown 2012, <i>Cinematography: Theory and practice: Imitation for cinematographers, directors &amp; videographers</i> , Focal Press New York and London
	Reference Book Resources	<ul style="list-style-type: none"> <li>• John Alton, <i>Painting with light</i>, University of California Press Berkeley</li> <li>• Kris Malkiewicz 2012, <i>Film Lighting: Talks with Hollywood's cinematographers and gaffers</i>, Prentice Hall Press New York</li> <li>• Kris Malkiewicz and David M. Mullen 2005, <i>Cinematography</i>, 3rd Ed., Fireside Books U.S.A</li> <li>• Jeff Foster 2010, <i>The green screen handbook: real-world production techniques</i>, Wiley Publishing, Inc. Indianapolis</li> </ul>
Article/Paper List	This Course does not have any article/paper resources	
Other References	This Course does not have any other resources	