



UNIVERSITI TEKNOLOGI MARA

CPM421: LIGHTING THEORIES AND TECHNIQUES

Course Name (English)	LIGHTING THEORIES AND TECHNIQUES APPROVED
Course Code	CPM421
MQF Credit	3
Course Description	This course introduces the variety of lighting and it's significant to control and manipulate light in photography. Explore the basics lighting techniques ranging from the use of sunlight, flash and multiple flash, to tungsten light, studio equipments and exposure meters. Lighting demos, group critiques of work, lecture, discussions, will ensure that the student learn effective lighting techniques
Transferable Skills	Demonstrate ability to identify and articulate self-skills, knowledge and understanding confidently and in a variety of contexts
Teaching Methodologies	Lectures, Demonstrations, Field Trip, Tutorial, Presentation
CLO	CLO1 Explain the importance of Lighting Theories & Techniques towards the current trends and practice. CLO2 Display proper skills and techniques in Photographic Lighting CLO3 Demonstrate written and verbal communication skill in Lighting Theories & Techniques
Pre-Requisite Courses	No course recommendations
Topics	
1. Introduction 1.1) What is light and its important in photography	
2. Understanding Light 2.1) Visible Light 2.2) The Color of Light 2.3) Color Temperature 2.4) Intensity of Light 2.5) Inverse Square Law 2.6) Quality of Light 2.7) Source of Light 2.8) Principal of Light	
3. Natural Light 3.1) Type of Natural Light 3.2) Quality of Natural Light 3.3) Color Temperature of Natural Light	
4. Artificial Light 4.1) Type of Artificial Lighting 4.2) Quality of Artificial Light 4.3) Color Temperature of Artificial Light	
5. Light source and its effects 5.1) Hard Light 5.2) Soft Light 5.3) Large Light Source 5.4) Medium Light Sources 5.5) Small Light Sources	

6. The Management of Reflection of Reflection 6.1) Light measurement 6.2) Incident light reading 6.3) Reflected light reading 6.4) Type of reflection 6.5) Diffuse reflection 6.6) Direct reflection 6.7) Surface Appearances
7. Available Light 7.1) Night Light Photography 7.2) Overcast Lighting 7.3) Low Light Lighting 7.4) Pictorial Light 7.5) Experimentation And Control 7.6) Sunset And Other Favorite Light
8.7 Basic Lighting Position and Its Effect 8.1) Front Light 8.2) Side Light 8.3) Quarter Light 8.4) Top Light 8.5) Back Light 8.6) Background Light 8.7) Bottom Light
9. Light And Color 9.1) Correcting Color Casts 9.2) White Balance
10. Light Sources Compared (Advantage And Disadvantages) 10.1) Daylight 10.2) Tungsten
11. Flash Lighting 11.1) Portable Flash Lighting 11.2) Positioning Flash Unit 11.3) Simple Flash Technique 11.4) Bounced Flash 11.5) Direct Flash 11.6) Umbrella Light 11.7) Haze Light 11.8) Reflector 11.9) Diffuse
12. Mixing Light Sources 12.1) Flash And Daylight 12.2) Flash And Tungsten 12.3) Creative Lighting System (CLS) Technique
13. Final Discussion 13.1) Pre-Assessment
14. Project Submission 14.1) Final Presentation

Assessment Breakdown		%		
Continuous Assessment		100.00%		
Details of Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Assignment	Assignment 3	20%	CLO3
	Assignment	Assignment 1	40%	CLO1
	Assignment	Assignment 2	40%	CLO2
Reading List	Reference Book Resources	<ul style="list-style-type: none"> • Cope, Peter 2013, <i>100 ways to make good photos great:tips & techniques for improving your digital photography</i> • Cope, Peter 2002, <i>Dictionary of photography and digital imaging:the essential reference for the modern photographer</i> • Ben Long 2010, <i>Creative DSLR photography :The ultimate creative workflow guide</i> • Heilman, Carl 2013, <i>101 Top tips for digital landscape photography</i> • Kamps, Haje Jan 2013, <i>The Ilex introduction to photography : Everything you need to know to take great pictures, whatever your camera</i> 		
Article/Paper List	This Course does not have any article/paper resources			
Other References	This Course does not have any other resources			