

UNIVERSITI TEKNOLOGI MARA CPM411: PHOTOGRAPHIC IMAGING THEORIES AND TECHNIQUES

Course Name	PHOTOGRAPHIC IMAGING THEORIES AND TECHNIQUES APPROVED				
(English)	ATTOLD				
Course Code	CPM411				
MQF Credit	3				
Course Description	The course objectives are to introduce the student to the technical aspects of photography. Students will be expected to demonstrate an ability to effectively use the Digital SLR camera, mainly emphasis on manual over-ride mode, with the introduction to entry-level professional digital photography and to understand the theories of quality imaging through photography. Designing the projects or exercises, in which, allows the students a practical in problem solving, with the intention of generating plausible dynamic composition possible. Students are encouraged to be creative in the usage of art & graphic fundamentals into their composition. The students will have a comprehensive knowledge in the usage of the camera throughout from pre-visualization towards the understanding of the digital workflow				
Transferable Skills	Demonstrate ability to communicate clearly and confidently, and listen critically				
Teaching Methodologies	Lectures, Demonstrations, Field Trip, Practical Classes, Tutorial				
CLO	 CLO1 Develop critical evaluation by-selection of composition within the rectilinear frame-of-reference CLO2 Build up their confidence in photography with professional means by the end of the study CLO3 Apply the fundamentals of photography studies; assigning the basic usage of the tool to produce better images 				
Pre-Requisite Courses	No course recommendations				
Topics					
1.4) Light Sensitive M 1.5) Short History of 2. Type & Format of 2.1) Camera Anatom 2.2) Big Format 2.3) Medium Format	Itography Image formation ories (Electromagnetic Waves) /Iedium (Film & Sensor as a Recording Medium) Photography F Conventional Camera				
2.4) Small Format 3. Digital Camera Sy 3.1) Camera Anatom	ystem & Camera Anatomy				
4. Exposure 4.1) Concept of Unde 4.2) Aperture & Shutt 4.3) Image Sensor & 4.4) Light Meter (Buil	er, Over & Normal Exposure ter				

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5. Digital Imaging System 5.1) Type of Memory Card 5.2) Type of Sensor (CCD & CMOS) 5.3) Image & Pixels 5.4) File System (JPEG, TIFF & RAW) 5.5) Image Size and Resolution
6. Lenses System 6.1) Basic Optical System (Compound Lens & Optical) 6.2) Focal Length (Angle of View, Coverage & Sensor, Crop 6.3) Type of Lens 6.4) Focusing System (Manual & Autofocus)
7. Composition and Lighting Study 7.1) Basic Element 7.2) Framing and Section 7.3) Rule of Third 7.4) Natural Light 7.5) Mix Light 7.6) Night Photography
8. Presentation 8.1) Minor Project
9. Shooting Techniques-Mode, Depth of Field 9.1) Hand held Camera Handling 9.2) Camera Support (Tripod, Monopod) 9.3) Shooting Mode (Manual, Auto, Program) 9.4) Depth Of Field Control
10. Shooting Techniques-Shutter Speed, Creative Shooting 10.1) Movement Object Control (Slow to Fast Shutter speed) 10.2) Creative Shooting Techniques (Panning, Zoom In & etc) 10.3) Long Exposure Technique (Bulb & Night Photography) 10.4) Close Up Photography
11. Built In Flash 11.1) Manual, Auto & Built In Flash
12. Colour System 12.1) Digital Colour Profile (RGB Filter) 12.2) White Balance (Colour Temperature of Difference Light 12.3) Filter (Polarizing, Colour Correction
13. Camera and Lens Maintenance 13.1) n/a
14. Presentation 14.1) Major Project

Assessment Breakdown	%
Continuous Assessment	40.00%
Final Assessment	60.00%

Details of Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO		
	Assignment	Students need to take a picture using various exposure. i. Under, Over & Normal Exposure ii. Shutter – Slow, Medium, Fast iii. Long Exposure Students need to take a picture using various F-numbers to produce images of different depth of field. i. Big F-numbers ii. Medium F-numbers iii. Small F-numbers Students need to take a picture using various lenses to see the difference in distance and angle to produce good picture. i. Lenses 35mm ii. Lenses 50mm iii. Lenses 105mm Student need to take a photo portrait with three positions. i. Front ii. Side iii. Quarter front	40%	CLO1		
Reading List	Reference Book Langford, Micheal 2005, A guide to better pictures for film and digital camera users, Fourth Edition Ed.					
	Resources	Barrett, Terry 1999, <i>Criticizing Photographs: An to Understanding Images</i> , McGraw-Hill	Introdu	ction		
		Schaefer, John Paul 1999, Ansel Adams Guide: I Techniques of Photography, Vol. 1 Ed., Bulfinch	B <i>asic</i> Publica	tion		
		Naegele, D. (ed.) 1998, Photography and Architer History of Photography	cture',			
		Rosenblum, Naomi 1997, <i>A World History of Pho</i> Abbeville Press, Inc.	otograph	ıy,		
Article/Paper List	This Course do	es not have any article/paper resources				
Other References	This Course does not have any other resources					