

COURSE CONTENT

Course Code	DP2006
Course Title	Principles of Lighting
Pre-requisites	DP5000 (DP2000) / DN1012 / DP2001 / DN1013
No of AUs	3
Contact Hours	39 hours studio contact

Course Aims

In this core course you will be introduced to the control and manipulation of light for a range of situations for film or digital capture. You will learn to observe the quality of natural light as a basis for photographic studio lighting techniques and creative applications. Classroom activity will discuss the theory and application while studio participation will provide hands on experience.

Intended Learning Outcomes (ILO)

By the end of the course, you should be able to:

1. Describe how light behaves, identify its qualities and determine how it can be best applied towards communicating a variety of visual narratives.
2. Utilise strobe lighting and grip equipment safely and proficiently for studio and location photography.
3. Employ natural and artificial light in a variety of schemes to convey a range of emotion and meaning.
4. Document, reflect on and evaluate solutions proposed for solving photographic lighting problems.
5. Contribute to the learning environment by participating positively to class discussion, critiques and activities on principles of lighting.

Course Content

The Right Light

You will review basic lighting principles and the concept of camera exposure. These will include the function of light and the crucial role it plays in the photographic process, as well as, how to obtain correct exposures. This is followed by a study of how to distinguish different types of light, quantify it, determine its quality, perceive the conditions that affect it, and ultimately, recognize how these elements impact the subject and environment photographed.

The Lighting Studio

Introduction to the lighting studio and artificial lighting as an additional platform and means which can be utilised for the production of photographs. You will learn to safely operate a variety of lighting and grip equipment and in the process familiarise yourself with studio etiquette and standard operating procedures. Focus is given to studying how light behaves and to the learning of its ability to “transform” subject matter and scene in a space where control over variables can be exercised. Techniques to control light to obtain proper exposures, and how to shape light to create depth and dimension, emphasize texture and form will be explored in detail.

Unlimited Light

This portion of the course is dedicated to equipping and expanding the student's photographic skillset. You will learn how to combine natural and artificial light, and, balance the different exposure values of the sources used when photographing indoors or on location. You will critically analyse your communication needs and apply your knowledge of lighting to explore and develop appropriate solutions for photographs that are effective in realising your concepts and conveying the desired narrative.

Class assignments

A total of seven assignments are aimed at providing you with the opportunity to grasp the principles of lighting through practice, and, to hone your technical skills in photography.

Assessment (includes both continuous and summative assessment)

Component	ILO Tested	Program me LO	Weighting	Paired/ Individual
Continuous Assessment: Individual Assignments Assignment 2: The Right Light Assignment 3: Hard Light Assignment 4: Diffused Light	1, 2, 3, 4, 5	--	15% 12.5% 12.5%	Individual
Continuous Assessment: Paired assignments Assignment 1: Metering and Exposure and Assignment 6: Creating and Augmenting Emotional Ambience with Light Assignment 5: Mixed Lighting	1,2,3,4,5	--	5% 10%	Paired
Final Project: Portfolio of photographic images illustrating a chosen editorial piece	1, 2, 3, 4	--	25	Individual
Continuous Assessment: Participation	5	--	20	Individual
Total	100%			

Reading and References

1. Child, John. *Studio Photography Essential Skills*. Focal Press, 2008.
2. Fletcher, Dirk. *Digital Photography Lighting For Dummies*. Wiley Publishing, Inc, 2011.
3. Hunter, Fil, et al. *Light–Science & Magic an Introduction to Photographic Lighting*. Focal Press, 2007.
4. Präkel, David. *Basics Photography 02: Lighting*. AVA Publishing, 2013.

Course Policies and Student Responsibilities

(1) General

You are expected to complete all assigned readings, activities, assignments, attend all classes punctually and complete all scheduled assignments by due dates. You are expected to take responsibility to follow up with assignments and course related announcements. You are expected to participate in all project critiques, class discussions and activities.

(2) Punctuality

You are expected to be punctual for all classes. If you are more than 15 minutes late, you will be deemed as absent.

(3) Absenteeism

In-class activities make up a significant portion of your course grade. Absence from class without a valid reason will affect your participation grade. Valid reasons include falling sick supported by a medical certificate and participation in NTU's approved activities supported by an excuse letter from the relevant bodies. There will be no make-up opportunities for in-class activities.

Academic Integrity

Good academic work depends on honesty and ethical behaviour. The quality of your work as a student relies on adhering to the principles of academic integrity and to the NTU Honour Code, a set of values shared by the whole university community. Truth, Trust and Justice are at the core of NTU's shared values.

As a student, it is important that you recognize your responsibilities in understanding and applying the principles of academic integrity in all the work you do at NTU. Not knowing what is involved in maintaining academic integrity does not excuse academic dishonesty. You need to actively equip yourself with strategies to avoid all forms of academic dishonesty, including plagiarism, academic fraud, collusion and cheating. If you are uncertain of the definitions of any of these terms, you should go to the [academic integrity website](#) for more information. Consult your instructor(s) if you need any clarification about the requirements of academic integrity in the course.

Planned Weekly Schedule*

*Subjected to adjustment by instructor according to the teaching situation, to students'

progress, public holidays and unforeseeable circumstances.

Week	Topic	Course LO	Readings/ Activities
1 -3	<p>• The Right Light</p> <p>Students will review basic lighting principles and the concept of camera exposure. These will include the function of light and the crucial role it plays in the photographic process, as well as, how to obtain correct exposures. This is followed by a study of how to distinguish different types of light, quantify it, determine its quality, perceive the conditions that affect it, and ultimately, recognize how these elements impact the subject and environment photographed.</p>	1, 2, 3, 5	<p>Lectures on:</p> <p>Camera controls, the light meter and exposure, quantity and quality of light, finding the “Right Light”</p> <p>In-class exercise:</p> <p>Using the light meter and grey-card</p> <p>Assigned Project 1:</p> <p>Various methods of determining the right amount of ambient light for correct exposures</p> <p>Assigned Project 2:</p> <p>Identifying and making use of the “Right Light” for creating photographs that are visually and emotionally impactful.</p> <p>Student Presentations, Project Critique on assigned projects.</p>
4-8	<p>• The Lighting Studio</p> <p>Introduction to the lighting studio and artificial lighting as an additional platform and means to which photographs can be produced. Students will learn to safely operate a variety of lighting and grip equipment and in the process also familiarise themselves with studio etiquette and standard operating procedures. Focus is given to studying how light behaves and to the learning of its ability to “transform” subject matter and scene in a space where control over variables can be exercised. Techniques to control light to obtain proper exposures, and how to shape light to create depth and dimension, emphasize texture and form will be explored in detail.</p>	1,2, 3, 4, 5	<p>Lectures on operating studio flash and grip equipment, flash exposure, observation and shaping of light</p> <p>In-class exercises:</p> <p>Setting up/Tearing down, safe operation of studio lighting & grip equipment</p> <p>Assigned Project 3:</p> <p>Exposure and control of light in a studio setting utilising “Hard” light source(s)</p> <p>Assigned Project 4:</p> <p>Exposure and control of light in a studio setting utilising “Diffused” light source(s)</p> <p>Student Presentations, Project Critique on assigned projects.</p>

<p>9-13</p>	<p>• Unlimited Light</p> <p>This portion of the course is dedicated to equipping and expanding the student’s photographic skillset. Students will learn how to combine natural and artificial light, and, balance the different exposure values of the sources used when photographing indoors or on location. Students will critically analyse their communication needs and apply their knowledge of lighting to explore and develop appropriate solutions for photographs that are effective in realising their concepts and conveying the desired narrative.</p>	<p>1, 2, 3, 4, 5</p>	<p>Lectures on portable lighting solutions, mixed lighting photography, creating and augmenting emotional ambience with light</p> <p>In-class exercise Operating portable lighting solutions, Exposure for mixed lighting photography,</p> <p>Assigned Projects</p> <p>Mixed Lighting: Thematic shoot using a mixture of ambient and flash lighting produced on location during class time.</p> <p>Creating and augmenting emotional ambience with Light: Experimentation and exploration of a variety of lighting schemes to create images that convey a desired mood and look.</p> <p>Final Project: Series of photographs made for the purpose of illustrating a chosen editorial piece. Based on original or adapted story.</p> <p>Student Presentations, Project Critique on assigned projects.</p>
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