Semester Lecture Plan

Name of the college: Government College of Arts, Science & Commerce Khandola, Marcela – Goa.					
Name of Faculty: Dr. Jason Joseph	Subject: Physics: SECTION 1: PHOTOGRAPHY				
Paper code: PYS108	Program/Course: First Year B.Sc	Division: A			
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Academic year: 2022-23	Semester: III	Total Lectures: 45			

Course Objectives:

- Familiarise the students with concept, content and instrument material (camera, lenses and lighting equipments)
- Introduce practical usages of the instruments
- Create capability to generate digital photographic content
- Provide hands on practical experience via structured photoshoots
- Generate artistic talent in scientific way.

Course Learning Outcome:

- <u>CO1.</u> Explain the fundamental concepts, theoretical formulations and practical application pertaining to the topics listed in syllabus.
- CO2. Evaluate and Calculate the physical parameters pertain to a professional photoshoot
- <u>CO3. Create</u> digital photographic content by optimal utilization of theoretical knowledge.
- <u>CO4. Draw</u> the geometries of practical photoshoot problems
- CO5. Deduce the common tricks and techniques practiced in a professional photoshoot
- <u>CO6</u>. Evaluate the merits and demerits of photoshoot locations and environments
- CO7. **Transform** into a professional photographer

Month	Lectures From: To:	No. of lectures allotted	Topic, Subtopic to be covered	-	ICT Tools	Reference books
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Month	Lectures From: To:	No. of lectures allotted	Topic, Subtopic to be covered	-	ICT Tools	Reference books
						Edition Author: Craig Alesse, Publisher: Amherat Media Inc. 2001 9. How to Photograph Absolutely Everything: Successful Pictures From Your Digital Camera Author: Tom Ang, Publisher: DK; Reprint edition 2009 10. 50 Photo Projects - Ideas to Kickstart Your Photography Author: Lee Frost, Publisher: David & Charles; 2009
						Digital Photography Guides) 3rd Edition Author: David D. Busch, Publisher: course technology PTR 2012 8. Basic 35mm Photo Guide: For Beginning Photographers 5th

September	06/09/2022	30/09/2022	19	Topic 5. Aperture & Shutter Speeds 6 Topic. ISO, Exposure compensation, Concept of high- and low key photographs Topic 7. Light Meter, TTL concept Topic 8. Depth of Field [3] Topic 9. White balance and colour compensation	Black board, Power point presentation, camera, lenses and lighting equipments	1.Scott Kelby's Digital Photography Boxed Set, Volumes 1, 2, and 3 1st Edition Author: Scott Kelby, Publisher: Peachpit Press ©2007, 2009 2. Understanding Exposure, 3rd Edition: How to Shoot Great Photographs with Any Camera Author: Bryan Peterson, Publisher: Random House India Edition: 3rd Edition, 2010 3. The Photographer's Eye: Composition and Design for Better Digital Photos 1st Edition Author: Michael Freeman, Publisher: Focal Press; 1st edition (May 23, 2007); 4. Extraordinary Everyday Photography: Awaken Your Vision to Create Stunning Images Wherever You Are Author: Brenda Tharp, Publisher Amphoto books 2012
October	01 b/10/2022	31/10/2022	18	Topic 10 Lenses Importance of lens in a camera, focal length of camera lenses and its effects on photographs. Types of lenses. (Prime lens, zoom lens & tilt lens) Categorization of lenses (kit lenses, micro, macro, wide angle & telephoto lenses). Topic11. Lighting Natural lighting, artificial lighting. speed lights, studio strobes, light modifiers, colour gels.	Black board, Power point presentation, camera, lenses and lighting equipments	

November	1/11/2022	10/11/2022	22	Topic 12. Effect of lighting on photographs Fill light, back light, Rembrandt lighting; butterfly lighting, golden hour and sun set photography Topic 13. Flash Photography TTL, high speed sink, Composition tips and Shooting at Night Topic 14. Filters, Tripod, & Camera	Black board, Power point presentation, camera, lenses and lighting equipments
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December	05/12/2022	19/12/2022	07	Topic 15. Introduction to a photo editing soft ware (adobe light room)	Black board, Power point presentation, camera, lenses and lighting equipments

Topic	Subtopics
No.	Subtopies
1	Definition of photography, Physics of photography, History and developments in photography, Types of photography, Digital photography.
2	Types of cameras, introduction to common brands of cameras, Camera Controls, basic camera settings, Basic camera operations.
3	Detailed operational procedure of a DSLR Camera and shooting modes
4	Exposure
5	Aperture & Shutter Speeds
6	ISO, Exposure compensation, Concept of high- and low key photographs
7	Light Meter, TTL concept

8	Depth of Field
9	White balance and colour compensation
10	Importance of lens in a camera, focal length of camera lenses and its effects on photographs. Types of lenses. (Prime lens, zoom lens & tilt lens) Categorization of lenses (kit lenses, micro, macro, wide angle & telephoto lenses).
11	Natural lighting, artificial lighting. speed lights, studio strobes, light modifiers, colour gels.
12	Fill light, back light, Rembrandt lighting; butterfly lighting, golden hour and sun set photography
13	TTL, high speed sink, Composition tips and Shooting at Night
14	Filters, Tripod, & Camera Accessories
15	Introduction to a photo editing soft ware (adobe light room)