

1	Name of Syllabus	C. C. IN DIGITAL PHOTOGRAPHY (Revise W.E.F.2017-18)																																															
2	Course Code	413201																																															
3	Max.Nos of Student	25 Students																																															
4	Duration	1 year																																															
5	Type	Part Time																																															
6	Nos Of Days / Week	6 Days																																															
7	Nos Of Hours /Days	4 hrs.																																															
8	Space Required	Class Room = 200 sqfeet <u>Workshop = 200 sqfeet</u> TOTAL = 400 sqfeet																																															
9	Entry Qualification	S.S.C. Appeared.																																															
10	Objective Of Syllabus/ introduction	Study of colour photography & its technical aspects.																																															
11	Employment Opportunity	Can set up his own studio, colour lab, can become free lancer photograph per for magzins, newspaper, can work in studio pro centers Lab as technical/Assistant.																																															
12	Teacher’s Qualification	Diploma OR Certificate course in related field.																																															
13	Training System	<div>Training System Per Week</div> <table><tr><td>Theory</td><td>Practical</td><td>Total</td></tr><tr><td>6 hrs</td><td>18hrs</td><td>24hrs</td></tr></table>						Theory	Practical	Total	6 hrs	18hrs	24hrs																																				
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14	Exam. System	<table><tr><th>Sr. No.</th><th>Paper Code</th><th>Name of Subject</th><th>TH/PR</th><th>Hours</th><th>Max. Marks</th><th>Mini. Marks</th></tr><tr><td>1</td><td>41320111</td><td>Introduction to Digital Photography</td><td>TH-I</td><td>3 hrs.</td><td>100</td><td>35</td></tr><tr><td>2</td><td>41320112</td><td>Advance Photography and Studio Setup</td><td>TH-II</td><td>3 hrs.</td><td>100</td><td>35</td></tr><tr><td>3</td><td>41320121</td><td>Photoshop</td><td>PR-I</td><td>6 hrs.</td><td>200</td><td>100</td></tr><tr><td>4</td><td>41320122</td><td>Product Photography</td><td>PR-II</td><td>6 hrs.</td><td>200</td><td>100</td></tr><tr><td></td><td></td><td>Total</td><td></td><td></td><td>600</td><td>270</td></tr></table>						Sr. No.	Paper Code	Name of Subject	TH/PR	Hours	Max. Marks	Mini. Marks	1	41320111	Introduction to Digital Photography	TH-I	3 hrs.	100	35	2	41320112	Advance Photography and Studio Setup	TH-II	3 hrs.	100	35	3	41320121	Photoshop	PR-I	6 hrs.	200	100	4	41320122	Product Photography	PR-II	6 hrs.	200	100			Total			600	270
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Theory - I

Introduction to Digital Photography

No.	Topics	Sub-topics Theory and Practicals
1	Introduction & History Of Cameras	Introduction
		Camera diagram
		History In details at
		Photo sensitive Material
		Film, First Photo
2	General Parts Of Camera	Details of camera Diagram
	Classification of Camera	Lens and diaphragm
		Sensor and Shutter
		Pentaprism
		Light travel path, Mirror,
		Shutter release button
		Full frame, Medium format and large format
		Classification based on sensor
		Classification based on Manufacturer
3	Lens & its Characteristics	Introduction to lenses
		Zoom lenses , Fish eye , Wide lenses
		focusing point
		lens Aberration and lens element
		Focal Length, Angle of view
		Lens Coating, Speed of lens
		Normal Focal lengths
		Short focal lengths
		Macro modes and macro lenses
		Perspective in photographs
4	Exposure Triangle Shutter	Shutter
		Function of shutter and Asthmatic Use
		Shutter Count
		Shutter type
		Light & motion controls using shutter
5	Exposure Triangle - Aperture	Diaphragm
		Function of Aperture and asthmatic use
		Aperture no or F no
		Types of Aperture
6	Exposure Triangle - ISO	Importance of Exposures
		Amplification
		ISO value
		Exposure , Correct exposure and TTL Meter
		Exposure modes
		How overriding auto exposure works

7	Exposure	Equivalent Exposure
		When and how to override automatic exposure
		Exposure latitude
8	Contrast & angle of light	What's in contrast
		Where can we find it
		Angle of light basic
9	Basic Lighting Setup practical	Different angle of lights
		Comparison with nature light
10	Outing	Practical

Theory - II

Advance Photography and Studio Setup

No.	Topics	Sub-topics
1	Exposure Zones, Closeup Reading	Exposure Zones
		Tonal value
		FOV crop factor
2	DOF and Light	Depth of Field
		Effective factor
		Nature of light
		Source, Nature, Intensity Of light
3	Automation In Cameras & AF Mode	Automation Modes
		Camera Modes AV, TV, P, M
		Auto Focus Modes
4	Composition & Flash	Composition and dead space
		Rules of Composition
		Flash and its types
		Setting Exposure with flash
		Flash power and range
		Flash sync and shutter speeds
		Auto flash
		Using slow sync flash
		Controlling flash exposures
		Using external flash
		Various Accessories and add-on for flash
		The inverse square law
		Calculating guide numbers
		High speed stroboscopic photography

5	Exposure Compensation	Compensating the exposure
	Metering Modes and Dynamic Range	All metering modes
		Tonal value, Histogram and Dynamic range
		How your meter see, interprets and deliver readings
		Auto exposure bracketing
		Exposure Compensation
		Exposure lock
6	Light Meter, White Balance and Studio Practicals	Light Meter and its Function
		How to take reading with light meter
		What is WB and how to set it in camera
7	Lenses	Focal length & angle of view
		Parallax in optical view finder
		Macro magnifications
		Perspective in photograph
		Wide angle lens distortions
8	STUDIO LIGHT PHOTOGRAPHY	
	Introduction to the studio – when and why do photographers use a studio?	
	Studio set-up – location, equipment, budget	
	Lighting equipment – learn all about the different equipment and technology you will need and what types of images they achieve (soft boxes, barn doors, snoots, beauty dishes, umbrellas)	
	Lighting styles – different styles are covered including hard light, soft light, spotlight, directional light etc	
	Backgrounds – experiment with the many different types of studio backgrounds (canvas, art, paper, colours)	
	Props – explore the huge range of props which can enhance your images in the studio	
	Accessories – play with different studio accessories – clamps, stands, arms etc	
	Home studio – learn how to set up your very own home studio on a budget.	
	Main light , Fill light ,background light	
	Using diffusers , Fill cards , Reflectors, scoops and other lighting controls	
	The rim lights	
	Choosing the background, Various types of backgrounds, fabrics	

Practical - I - Photoshop (Software)

Photo Editing Techniques		
No.	Topics	Sub-topics
1	Introduction to tools	Tool introduction
		Histogram, Resolution, DPI, aspect ratio
		RAW Capture & File Formats
2	Exposure correction	Level adjustment
		Adjustment layers (curves, hue/saturation, selective colour)
3	Color correction	WB adjustment
		Color temperature
4	Selection tools and Layers	Use of different selection tools
		introduction to layers
		Masking
5	Background changes	How to select background
		how to change / replace
6	Skin Retouch Up and product cleaning	Retouch Technique
		Cleaning technique
		• Basic Retouching (clone & healing tools)
		• Masks
		• Finalising the image
		• Save for web
		• Save for Print

Practical - II - Product Photography

Sr.No.	Topics	Sub-topics
1	Introduction	Introduction to product photography
		Gears, Equipment & accessories needed
		walkthrough of course
		Light and source
2	Shooting Products on ambient light (Lamp)	The principles of shooting products
		study of angle of light
		understand the reflection
		control the ambient light
3	Shooting Products on ambient light (Sunlight)	setting the exposure with sunlight
		controlling the sunlight for product
		using sunlight and lamp with long exposure
4	Clay Products with Single Light	product with single light
		understanding the rough surface materials
		use of reflector and mirrors
5	Plastic Products	lighting setup ideal for plastic and fiber
		setting up the product and different angle
		common mistakes
6	Steel Products using 2 lights	lighting setup for steel product with tent
		understand the reflection of steel
		common mistakes
7	Glass Products (Backlight)	lighting setup for transparent products
		understand the shadows and reflection of glass materials
		common mistakes
8	Splash Technique (High Sync Speed)	how to setup for high sync flash photography
		How to do smoke photography
		common mistakes
9	Jewellery	setup for jewelry
		understand the reflectivity
		B-setting Technique
		common mistakes
10	Fabric	setup for fabric
		study of texture
		common mistakes
11	Creative	creative lighting setup
		how to use background lighting
		How to play with multiple lighting
12	Portfolio Submission	Should be submitted individually

List of Tools and Equipment

Sr.No.	Name of Item	No.
1	Chairs with Writing Pads	25
2	Table	1
3	Props- Artificial Jewellery, Steel Cutlery, Fabrics, Ceramic pots etc.	1 set each
4	Computers with softwaresPhotosho and Illustrator	5

List Of Equipments : Photography		
Sr.No.	Name of Item	Qty
1	Canon 1300 D	1 no
2	Lens 18-135 mm	1 no
3	Studio Lights 400 Set	1 set
4	Strip Box (Soft box)	1
5	OCta (Softbox)	1
6	Beauty Dish	1
7	Tripod	1 no
8	Background Stand Holder	1
9	Background White & Blue	1
10	Portable Flashes	1
11	Reflector	1
12	Whie paper Background	1
13	Mirrors	1
14	Light Meter	1

BOOKS FOR PHOTOGRAPHY :-

Book	Author
The Digital Photography	Scott Kelby
Understanding Exposure	Bryan Peterson
The Phtographers Eye	Michael Freeman
The Art Of Photography	Bruce Barnbaum
