

| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Theory | Practical | Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 hrs | 18hrs | 24hrs | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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 |

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|----|--------------------------------|---|
| 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 |
