

Digital Photography and Lighting for Beginners

TOPICS COVERED (~3 hours)

1. **SENSORS AND LENSES**

- Available sensor sizes & the meaning of focal length
- Lens types (Wide, Telephoto, Macro, Normal, Primes, Zooms)
- Focal length and minimum focus
- Digital only vs full frame lenses

2. **AUTO Mode** defined

3. **CAMERA CREATIVE MODES**

- Definitions:
 - Aperture & Aperture Priority Mode
 - Shutter Speed & Shutter Priority Mode
 - Manual Mode
 - Program Mode
 - ISO

EXERCISE 1 – Familiarization with Aperture Priority, Shutter Priority and ISO

- Depth of Field (DOF) & f/Stops

EXERCISE 2 – Working with Depth of Field

- Freezing Action or Creating intentional Blur
- Complete Control over Aperture and Shutter Speed
- Program Mode

EXERCISE 3 – Working with Manual and Program Modes

4. **SOME TECHNICAL (BUT VERY USEFUL) STUFF**

- Histograms on-the-fly (why you can't rely on the LCD display)
- 18% grey and the camera's exposure metering
- Colour Gamut/Colour Space
- White Balance and RAW files
- Metering modes

EXERCISE 4 – Interpreting histograms and setting colour space

5. **PERFECTING THE IMAGE IN THE CAMERA**

- Exposure Compensation
- Natural lighting considerations
- Use of fill flash

- Use of reflectors
- Composition rules and tips
- Use of Filters

EXERCISE 5 – Learning how to dial in exposure compensation

6. THE ACCESSORY HOT SHOE FLASH

- Required features
- Colour Temperature
- On camera vs. remotely triggered
- Measuring flash output
- Setting flash output

7. INTRODUCTION TO STROBES

- Comparison to the accessory flash
- Their role in the studio

8. LIGHT MODIFIERS

- Umbrellas
- Softboxes
- Reflectors
- Diffusers

9. LIGHTING SETUPS

- Custom white balance
- Mixing light sources
- 3 different setups described

EXERCISE 6 – Practice with window light plus remotely-triggered flash