

# Department of Physics

## ADD ON COURSE

### ON

## BASIC WORKSHOP PRACTICE

### Emphasis on circuit designing

Date: Starts from  
September, 2019

#### **COURSE CO-ORDINATOR:**

Dr. Kangkan Sharma  
Assistant Professor  
Department of Physics  
Mangaldai College

#### **MEMBERS:**

Dr. Ranjan Sarma ,  
Assistant Professor  
Department of Physics  
Mangaldai College

**COURSE DURATION: 30 CONTACT HOURS**

#### **About The Course:**

Circuit designing involves creating electrical circuits to perform specific functions by selecting and connecting components like resistors, capacitors, diodes, transistors, and ICs. This process includes defining the circuit's purpose, drawing a schematic, selecting appropriate components, building the circuit, testing it with tools like multimeters and oscilloscopes, and refining it to ensure proper functionality. Basic circuit types include series, parallel, and mixed circuits, and practical exercises, such as lighting an LED with a resistor and battery, help solidify these concepts.

*For further information, contact: [physicsmangaldaicollege@gmail.com](mailto:physicsmangaldaicollege@gmail.com)*