

Dr. A. G. D. Bendale Mahila Mahavidyalaya, Jalgaon
Department of Physics

Certificate Course in Electrical Domestic Appliances

Course description:

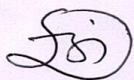
Prime aim of this certificate course is to introduce the knowledge of electrical home appliances to under graduate students.

Course Objectives:

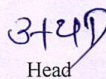
1. To understand the importance of electrical home appliances in everyday work.
2. To understand basic theory of electrical home appliances.
3. To understand basic working of electrical home appliances.
4. To aware about maintenance of electrical home appliances.

Course Outcomes:

1. To make students able to understand the significance of electrical home appliances.
2. To make students able to understand basic functions of electrical home appliances.
3. To make students able to use basic working of electrical home appliances.
4. To make students able to understand maintenance of electrical home appliances.



Co-Ordinator
Department of Physics



Head
Department of Physics

Syllabus

Theory

Chapter 1

Basic components and Devices

Fuses, its types, requirement of a fuse, Working Principle of Fuse, Different Types of Fuses, Link Type Fuse, Applications of Different Types of Fuses, switches, its types, components and their types, Resistances, Capacitors, inductors, Multimeter and its types, Analog and digital multimeter, soldering and soldering rod
(Total periods 10)

Chapter 2

Electric Mixer / Juicer / Grinder

Theory: Construction, working principles, Identification of various parts and their functionalities, Functioning of motor and circuit breaker characteristics, applications of electric mixer, Juicer, grinder. Common faults, their causes, testing and repairs, servicing, maintenance of Mixer/Juicer/Grinder
(Total periods 10)

Chapter 3

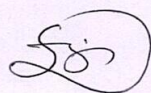
Air Cooler

Air cooler, types of air cooler, Part of air cooler: case and its types, fan and its rpm controller, fan machine and its horse power, water pump. Mesh: types of mesh and size of mesh, grass/pads, water tank capacity of cooler. Advantages and disadvantages of air cooler.
(Total periods 10)

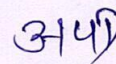
Chapter 4

Electric Iron

Introduction, Definition Of Ironing, Equipments - Iron, Ironing Board , Commercial Equipment, History of Iron, Raw Materials ,The Manufacturing Process , Sole Plate , Thermostat, Housing and Handle, Assembly, Quality Control, The Future , Steam Iron
(Total periods 10)



co-ordinator



Head
Dept. of Physics