

DEPARTMENT OF PHYSICS**SPHYVAC01 - Maintenance of Minor Equipment's (Entry Level)****Learning Objectives**

- To identify and categorize the most common household equipments
- To understand the basic principles of domestic equipments
- To predict the goodness or age estimation of domestic equipments
- To perform layman checks and rectify minor defects
- To familiarize the maintenance of household equipments

Course Outcomes

By the end of the course, the students will be able to

- Able to categorize the fault in the domestic equipment.
- Adopt proper handling procedures of the domestic equipment.
- Do layman checks and identify the problems in the domestic equipment.
- Familiarize and understand the maintenance of household equipment's.

Unit I Types of Household equipments – Mechanical, Thermal, Acoustical, Optical, Electrical, Electronics, Embedded Systems, - Simple & sophisticated appliances

Unit II General maintenance procedures of various appliances – Specific caution and care

Unit III Most common defects – other possible defects

Unit IV Layman checks - Simple testing tools for each category

Unit V Analyzing the condition — Confirming the goodness of the equipment

Practice

Hands-on practice of Tools & Procedures of above listed equipment's

List of Equipment's (includes but not limited to);

Mechanical Doors and Windows; Taps and Pipes, Cots, Tables and other Furniture, Scrubbers and Powders

Thermal Gas stoves & cylinders, Geyser, Cooking Utensils, Pressure Cooker,

Electrical Lights, Fan, AC, Coolers, Inverter, Battery, etc

Electronics Mobile, TV, DVD, etc

Embedded Washing Machines, Induction Stoves, Computers, etc

Text Books:

Complete Guide to Home Appliance Repair – Evan Powel, Better Homes & Garden Books Pubn, (Amazon online purchase) 2019

The Hindu Speaks on Scientific Facts – General Volume, The Hindu Publication, 2006, Chennai

Yen, Yetharku, Yeppadi (Tamil) – Sujatha, Vikadan Pirasuram, 2005, Chennai

References:

Hand Book on Home Appliances – L. Palaniappan, S.P. Publications, Chidambaram, TN, 1st Edition, 2019; ISBN No. 978-93-5351-441-9

Troubleshooting and Repairing Major Appliances – Eric Keinert, McGraw-Hill Professional Publishers 2014, New Delhi