

<b>Course Code: EITS - 103</b>		
<b>Course Title: Maintenance and Repair of Home Appliances– I</b>		
<b>Number of Credits: 03</b>	<b>Total Hours: 42</b>	<b>Total Marks: 75</b>
<b>Prerequisites for the course</b>		
Students should have basic understanding of electrical and electronic components.		
<b>Objectives of Course</b>		
This course is intended to provide the knowledge of low power home appliances devices, their working principle and some basic troubleshooting procedures.		
<b>Course Content</b>		
<b>Unit I</b>	<b>Heating based devices</b>	<b>16 Hours</b>
Working principle, parts, thermostat heat controls, wiring diagram of steam iron, Electric kettle, Geyser, Electric rice cooker.		
<b>Unit II</b>	<b>Mixer Grinder and Hand blender</b>	<b>8 Hours</b>
Various parts & functions of Mixer/Grinder, speed control circuit & automatic overload protector, wiring diagram, parts of hand blender.		
<b>Unit III</b>	<b>Grill oven</b>	<b>5 Hours</b>
Principle of grill oven, parts of oven, heating rod, control knobs, wiring diagram		
<b>Unit IV</b>	<b>Electric fan</b>	<b>4 Hours</b>
Ceiling fan, motor, capacitor, table fan		
<b>Unit V</b>	<b>Electric drill</b>	<b>3 Hours</b>
Parts of electric drill, motor, wiring diagram		
<b>Unit VI</b>	<b>Water Purifier</b>	<b>6 Hours</b>
Types of water purifiers, Internal structure, electronics parts, sediment filters.		
<b>Pedagogy</b>		
Lectures/Tutorial/Assignments/		
<b>Course Outcome</b>		
On completion of the course, students will have working knowledge of low power home appliances devices. Students will be able to identify the different parts and trace to the wiring diagram.		
<b>References/Readings</b>		
1. Troubleshooting and Repairing Major Appliances Hardcover by Eric Kleinert 2. Complete Guide to Home Appliance Repair Hardcover – June 1, 1990 3. Electrical Appliances: The Complete Step-by-step Guide to the Repair and Maintenance of a Wide Range of Domestic Electrical Appliances (Haynes for Home DIY) Paperback – January 1, 1995 by Graham Dixon 4. Handbook of Repair and Maintenance of Domestic Electronics Appliances Paperback by Shashi Bhushan Sinha		