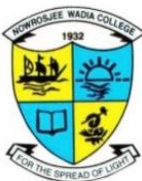
	MODERN EDUCATION SOCIETY'S NOWROSJEE WADIA COLLEGE, PUNE	Academic Year 2024-2025
Bachelor of Science in Electronic Science		
OE (Theory) Subject-I		
YEAR-I SEMESTER-I	Name of Paper- Domestic Equipment Maintenance Subject Code-	CREDITS-II HOURS-30
Course specific outcomes- 1) <i>Aptitude to apply Logic thinking and Basic Science knowledge for problem solving in various fields of electronics in industries.</i> 2) <i>To acquire experimental skills, analysing the results and interpret data.</i> 3) <i>Ability to manage operation and maintenance of sophisticated electronic gadgets / systems / processes that conforms to a given specification within ethical and economic constraints.</i>		
Sr. no.	COURSE CONTENT / SYLLABUS	Lectures
UNIT I	Unit 1- Geyser: Study of household electric supply (single phase/ three phase), Construction and working of Geyser, parts and manufacturing process, types. <u>Common faults and their troubleshooting:</u> Dripping geyser overflow, overheating, steam or hot water escaping from overflow, water leaks through the ceiling, no hot water, water not hot enough, poor hot water pressure.	10
UNIT II	Unit 2- Induction cooker: Construction and working, parts and manufacturing process, types. <u>Common faults and their troubleshooting:</u> Cooker fuse blown, cooker buttons not working, cook top shuts off while cooking, food not get cooked or heated properly, overheating and uneven heating, display keep flashing, weird noises–crackling, fan noise, humming sound, clicking.	10
UNIT III	Unit 3-: Microwave Oven: Working, raw material and manufacturing process, types <u>Common faults and their troubleshooting:</u> Microwave does not heat, runs then stops, buttons do not work, plate do not spin, bulb does not turn ON during operation, sparking inside, Shuts OFF after few seconds.	10
References :	1) Electronic instruments and systems: Principles, maintenance and troubleshooting by R. G. GuptaTata McGraw Hill 2) Modern electronic equipment: Troubleshooting, repair and maintenance by Khandpur, TataMcGraw Hill 3) Electronic fault diagnosis by G. C. Loveday, A. H. Wheeler publishing 4) www.madehow.com	
Learning outcomes:	<i>After completion of this course student will be able:</i> 1) <i>Capacity to identify and implementation of the formulate to solve the electronic related issues and analyse the problems in various sub disciplines of electronics.</i> 2) <i>Capability to use the Modern Tools / Techniques for the operation and maintenance of the domestic electrical/ electronic gadgets</i> 3) <i>Capability to use the Modern Tools / Techniques.</i>	

	MODERN EDUCATION SOCIETY'S NOWROSJEE WADIA COLLEGE, PUNE		Year 2024- 2025
Bachelor of Science in Electronic Science			
OE (Practical) -I			
YEAR-I	Name of Paper- Computer Hardware Subject Code-		CREDITS- II
SEMESTER- II			HOURS- 30
Course specific outcomes- <i>1) Acquire the knowledge of computer hardware. 2) Understand working of computers. 3) Understand configuration of computers. 4) Understanding of peripheral devices 5) Understanding the formatting of hard disk and creation of logical partition</i>			
Practical List			
1.Front panel indicators & switches and Front side & rear side Connectors. 2.Study of the Motherboard 3.Study of HDD, CD DVD and add on cards. 4.Install Hard Disk and configure to the PC's 5.Printer Installation and Servicing and troubleshoot 6.Install and configure Scanner. 7.Identification of symptoms for failure 8.Study of different Anti-Virus software for example Norton, Quick heal etc. 9.To Assembling a Computer. 10.Formatting disk drives. 11.Creation of Logical Disk Drives 12.Understanding control panel settings			
Learning outcomes:	<i>After completion of this course student will be able: 1) Student will different types of computer hardwares 2) Student will Understand how to configure the computer 3) Student will learn how to format hard disk, create logical drives,</i>		