
	<div>MODERN EDUCATION SOCIETY'S</div> <div>NOWROSJEE WADIA COLLEGE, PUNE</div>	<div>Academic Year</div> <div>2024-2025</div>
Bachelor of Science in Electronic Science		
OE (5) Subject-I		
YEAR-II	Name of Paper- Basics of Electronics and Computer (ELOE238)	CREDITS-II
SEMESTER-III		HOURS-30
Course specific outcomes- 1)To understand importance of Electronics in day today life 2)To understand fundamentals of electronic circuits and computers to non-electronics students 3)To understand few electronic systems.		
Sr. no.	COURSE CONTENT / SYLLABUS	Lectures
UNIT I	Fundamentals of Electronics Introduction to circuit components- Resistors, capacitors, inductor, transformer, diode and transistor. Symbols, principles and applications.LED and LCD display, relay, fuse, switches. AC and DC applications. Concept of Power supply. Introduction to CRO and DMM, measurement using CRO and DMM	15
UNIT II	Basics of Computers Block diagram of computer – explanation of each block Hardware and software Memories – types, specifications and applications Types of processors used in computers and mobile phones (mention only) Brief Introduction to operating systems, Types of Operating System, Functions of Operating System Overview of MS word, Excel and Power point.	15
References:	1) Basic Electronics, Solid State: B. L. Theraja, S. Chand and Co. 1 st Multicolour Edition 2005. 2) Basic Electronics: Bernard Grob, McGraw Hill Publication, 8 th Revised Edition. 3) Electronic Instrumentation and Measurement Techniques by WD Cooper, AD Helfrick, Prentice Hall of India Pvt. Ltd. New Delhi 4) Fundamentals of computer, E. Balagurusamy, 2009 5) Computer Fundamentals, Anita Goel, 2010	

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Bachelor of Science in Electronic Science		
OE		
YEAR-II	Name of Paper- Consumer Electronics (ELOE 249)	CREDITS-II
SEMESTER-IV		HOURS-30
<div>Course specific outcomes-</div> <div>1) <i>Acquire the knowledge of consumer hardware.</i></div> <div>2) <i>Understand working of household Equipments.</i></div> <div>3) <i>Understand configuration of Equipments.</i></div> <div>4) <i>Identification of faults in the appliances.</i></div> <div>5) <i>Discussion of the possible solutions.</i></div> <div>6) <i>Online survey of Equipments.</i></div>		
Sr no	COURSE CONTENT / SYLLABUS	Lectures
	<div>List of Practicals</div> <div>1. Study of Electric Iron box and its fault finding.</div> <div>2. Study of Electric geyser.</div> <div>3. Study of faults in the geyser and its troubleshooting.</div> <div>4. Study of Microwave oven.</div> <div>5. Study of faults in microwave oven and its troubleshooting.</div> <div>6. Study of Refrigerator.</div> <div>7. Study of faults on refrigerator and its troubleshooting.</div> <div>8. Online survey of Electric iron</div> <div>9. Online survey of Electric geyser</div> <div>10. Online survey of Microwave oven</div> <div>11. Online survey of Refrigerator</div> <div>12. Online survey of Vacuum cleaners.</div>	