## GOVT. POLYTECHNIC MANDKOLA

LESSON PLAN- ELECTRICAL SHOP

NAME: SURESH DEVI

DISCIPLINE: WORKSHOP

SEMESTER: 2<sup>nd</sup>

DURATION: 16 WEEK (06/03/2023 TO 23/06/2023)

WORKLOAD PER WEEK (IN HOURS) : 08 HOURS

WEEK	PRACTICAL	PRACTICAL ACCORDING TO SYLLABUS
NO.	DAY	
1 <sup>st</sup>	1 <sup>st</sup>	Safety precautions of concerned shop and use of personal protective equipments.
	2 <sup>nd</sup>	Use of fire extinguisher during electric fire
	3 <sup>rd</sup>	Study the method to take, restoration of person suffering from electric shock
2 <sup>nd</sup>	1st	Identification of common electric materials.
	2 <sup>nd</sup>	Such a wire ,cables and switches
	3 <sup>rd</sup>	Identification 1 POLE,2-POLE,3-POLEMCB,RCCB
3rd	1 <sup>st</sup>	Identification ,use and connection of various type of switches
	2 <sup>nd</sup>	identification of normal minitare toggle and ,slide,push button
	3 <sup>rd</sup>	Piano key,rotary,SPST,SPDT,DPST,DPDT,band selector multi way master main switch
4th	1 <sup>st</sup>	Identification of phase,netural,and earth wire
	2 <sup>nd</sup>	Connection tool domestic electrical appliance and connection
	3 <sup>rd</sup>	Connection to three pin plugs
5th	1st	Identification of following electrical tool
	2 <sup>nd</sup>	Their use, screw driver, plier , cutter
	3 <sup>rd</sup>	Sniper screw driver l-key, soldering iron
6th	1 <sup>st</sup>	Insulation remover stander wire cage
	2 <sup>nd</sup>	Soldering wire jointing
	3 <sup>rd</sup>	Straight joint, married joint, t joint, western union joint

7th	1 <sup>st</sup>	Making of extension board
	2 <sup>nd</sup>	TO make a single phase main distribution board with fire
		out going ckt
	3 <sup>rd</sup>	Fault detection and repair of domestic installation
8th	1 <sup>st</sup>	Fault detection and its repair in installation
	2 <sup>nd</sup>	Carrying out house wire circuit using fuse,
	3 <sup>rd</sup>	Demo of casing coping and conduit wiring
9th	1 <sup>st</sup>	Winding of a fan motor and BCDC
	2 <sup>ND</sup>	Repair and maintenance of domestic appliance
	3 <sup>rd</sup>	Repair electric turn geyser ,fan heater ,kattle
10th	1 <sup>st</sup>	Dismaltiling and assemble of voltage stabilizers
	2 <sup>nd</sup>	Assembly and inter changing wiring of tubelight
	3 <sup>rd</sup>	Earth resistance and measurement and earthing process
11th	1 <sup>st</sup>	To carry out pipe \ plate earthing for a small house and
		three phase induction motor
	2 <sup>nd</sup>	Testing the earthing using earth tester
	3 <sup>rd</sup>	Coal winding for small transformer or alarm belt
12th	1 <sup>st</sup>	Assembling small transformer course from the giving
	_	lamination plates
	2 <sup>nd</sup>	Assembling small battery charger
	3 <sup>rd</sup>	Connection of single phase and 3 phase motor
13th	1 <sup>st</sup>	Wiring testing and fault finding
	2 <sup>nd</sup>	Remote control ckt (b)time deley ckt
	3 <sup>rd</sup>	Inter locking ckt (b)sequential control skt
14th	1 <sup>st</sup>	Assembly of star star delta and DOL starter
	2 <sup>nd</sup>	Armature winding of 3 phase induction motor
	3 <sup>rd</sup>	Connecting single phase energy meter
15th	1 <sup>st</sup>	Introduction to single phase and three phase motor
	2 <sup>nd</sup>	Demonstrution of laying of underground cable at
		worksite
16	1 <sup>st</sup>	Revision
	2 <sup>nd</sup>	Revision
		TCVISIO11
	1	



