

4105 – ELECTRICAL WORKSHOP PRACTICE - I									
Teaching Schedule Per Week			Progressive Assessment		Examination Schedule (Marks)				
Lectures	Practical	Credit			Theory		Practical Ex.	Total	
-	2	2	-	25	-	-	-	25	
Pre-requisite		Source	Semester	Theory	Test	Total	TW	PR	Gr Total
Nil		ELL		-	-	-	50	-	50

Rationale: The student should be able to identify the hand tools and use the proper tools for a particular job.
The student should be able to acquire necessary hand skill in electrical trade.

TERM WORK		Hrs.	Mks.
1. Drawing of symbols of electrical equipments. Drawing of circuit diagrams for stair case, light wiring and layout of light, fan, plug and main switch..		3	
2. Study of various tools required in electrical trade such as line tester, screw drivers, spanners , bearing puller and gauges.		2	
3. Practice of soldering and disoldering.		5	
4. Preparation of PCB for a given circuit		8	
5. To detect O.C. , S.C., continuity and earth leakage in a given device by using Series Lamp test. Multimeter Separately.		2	
6. Connection of fluorescent tube and study its operation		2	

7. Testing of domestic wiring installation using Megger	2	-
8. Study of switches, sockets, switch fuse unit, fuse switch unit	3	-
9. Study of various types of fuses and replacement of fuse/fuse wire	3	-
10. Measurement of earth resistance/resistivity by using earth tester	??	-

REFERENCE BOOKS:

1. Electrical Workshop Engg. And Practice by Arora B. Dass.
2. Basic shop practice in Electrical by Arora B. Dass.
3. Electrical Appliances by Anvani, M.L.
4. Electrical Motor Winding and Repair by Anvani, M.L.

