

## Lesson Plan

Name of Faculty : Manoj Kumar  
 Discipline : Workshop  
 Semester : 3rd  
 Subject : Electrical Shop  
 Lesson Plan Duration : 15 Weeks (From Aug.2020 To Nov.2020)

Week	Practical No.	Week	Practical
1 <sup>st</sup>	1	1	Job 1. Study of electrical safety measures and shock treatment. Or study of electrical safety measures as mentioned in the electricity rules and shock treatment including first aid.
2 <sup>nd</sup>	2	2	Job 2.To make the following wire joints. 1. Straight married joint. 2 Western union joint 3.Britania joint. 4. Twist sleeve joint 5. Bolted type joint.
3 <sup>rd</sup>	3	3	Job. 3 Types of wiring and to make different light control circuit in the following types of wiring . 1. Casing capping wiring. 2. Conduit wiring Filling & crimping of thimbles
4 <sup>th</sup>	4	4	Job.4 Wiring of main distribution board with four outgoing circuits for light and fan loads including main switch and fuses. Types of wiring and to make different light control circuit in the following types of wiring . 1. Casing capping wiring. 2. Conduit wiring
5 <sup>th</sup>	5	5	Job.5 Construction /assembly of distribution board & extension board (1) Construction of an extension board with two 5Amp sockets & one 15 A socket controlled by their respective switches, a fuse and indicator with series test lamp provision
6 <sup>th</sup>	6	6	Job 5.(1) Assembly of distribution board panel using MCB, main switch, change over switch & ELCB/ RCCB. (2) Wiring of main distribution board with four outgoing circuits for light & fan loads including main switch & fuses
7 <sup>th</sup>	7	7	Job 6 Simple light & alarm circuits ( any four) (1) One lamp controlled by two switches.(staircase circuit) (2) Two lamps controlled by three switches (double staircase circuit) (3) Two ordinary bells (for day and night ) used at a distant residence. (4) Bell response circuit using one bell and one relay.
8 <sup>th</sup>	8	8	Job 6. (5) Bell response circuit of an office (for three rooms) (6) Traffic light control system for two roads crossing (7) Wiring of a switch board containing at least two switches, one fan regulator and one 5/15A socket controlled by their respective

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			switches using piano types switches and matching socket
9 <sup>th</sup>	9	9	Job 7. Wiring of a series test lamp board and to use it for finding out simple fault
10 <sup>th</sup>	10	10	Job 8. Testing of domestic wiring installation using meggar.
11 <sup>th</sup>	11	11	Job 9. Fault finding and repair of a tube light circuit.
12 <sup>th</sup>	12	12	Job 10. Wiring and testing of alarm and indicating circuits using relay, push buttons and bells (simple single phase circuits).
13 <sup>th</sup>	13	13	Job 10. Wiring and testing of alarm and indicating circuits using relay, push buttons and bells (simple single phase circuits).
14 <sup>th</sup>	13	14	Job 11. Assembly of distribution board/ panel/ using MCB ,main switch, changeover switch and ELCB etc.
15 <sup>th</sup>	14	15	Job 11. Assembly of distribution board/ panel/ using MCB ,main switch, changeover switch and ELCB etc.