**Government Polytechnic, Chhapar (Charkhi Dadri)**

**Electrical Engineering Department**

#  LESSON PLAN

Name of Faculty:-Pooja

Discipline:-Electrical Engg

Semester:-3rd

Subject: EWP-I

Work Load:-P-06

Lesson Plan Duration:-15 weeks (from **15/09/2022 to 16/01/2023)**

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| Week |  | PRACTICAL |
|  | PRACTICALDAY |  |
| 1 | 1 | StudyofelectricalsafetymeasuresasmentionedintheIndianElectricityRulesandshocktreatment including first aid |
| 2 | Wire jointing- Straight married joint |
| 2 | 3 | Western union joint, Britania joint |
| 4 | Twist sleeve joint, Bolted type joint |
| 3 | 5 | Wiringofmaindistributionboardwithfouroutgoingcircuitsforlightandfanloads includingmainswitchandfuses(onlyinternalconnection)Typesofwiringandtomake differentlightcontrolcircuitsinthefollowingtypesofwiring:Casing and Capping (PVC) wiring |
| 6 | In Conduit wiring (surface/concealed) |
| 4 | 7 | Construction/assemblyofDistributionBoardandExtensionBoard-Constructionofan extensionboardwithtwo5AsocketsandoneI5ASocketcontrolledbytheirrespective switches,afuseandindicatorwithseriestestlampprovision. |
| 8 | AssemblyofdistributionboardpanelusingMCB,mainswitch,changeoverswitchandELCB/RCCB. |
| 5 | 9 | Wiring of main distribution board with four outgoing circuits for light and fan loadsincluding main switch and fuses (only internal connection) |
| 10 | Simple light and Alarm Circuits (any four)-1.) One lamp controlled by two switches (staircase circuit).2.)Two lamps controlled by three switches (double staircase circuit) |
| 6 | 11 | 3.)Two ordinary bells (for day and night) used at a distant residence.4.)Bell response circuit using one bell and one relay |
| 12 | 5) Bell response circuit of an office (for three rooms). |
| 7 | 13 | Traffic light control system for two roads crossing |
| 14 | Wiringofaswitchboardcontainingatleasttwoswitches,onefanregulatorandone 5/15Asocketcontrolledbytheirrespectiveswitchesusingpianotypeswitchesandmatching socket |
| 8 | 15 | Wiring of a series test lamp board and to use it for finding out simple faults |
| 16 | Testing of domestic wiring installation using meggar |
| 9 | 17 | Fault finding and repair of a tube light circuit |
| 18 | Wiringandtestingofalarmandindicatingcircuitsusingrelay,pushbuttonsandbells(simple single phase circuits) |
| 10 | 19 | Assemblyofdistributionboard/panelusingMCB,mainswitch,changeoverswitchandELCB etc. |
| 20 | REVISION |
| 11 | 21 | REVISION |
| 22 | REVISION |
| 12 | 23 | REVISION |
| 24 | REVISION |
| 13 | 25 | REVISION |
| 26 | REVISION |
| 14 | 27 | REVISION |
| 28 | REVISION |
| 15 | 29 | REVISION |
| 30 | REVISION |