

# “PVC” NSSK Govt. Polytechnic Bilaspur (H.P.)

## Practical Planning & Coverage

Branch : Electrical Engg

Semester : 3<sup>rd</sup>

Subject : Electrical Engg Design & Drawing

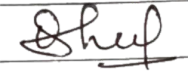
Session : Sep 22- Jan 23

Teacher : Er. Vivek Sheel Verma

Laboratory : Drawing Hall

Pract. No.	Description of Practical	Reference for Procedure/ Writup	Likely Dates	Actual Dates	Signature
1.	Symbols and Signs Conventions of Various Electrical Symbols used in Domestic and Industrial Installation and Power System as per BIS.	Drawing Manual	1 <sup>st</sup> Week		
2.	Design and Drawing of panels/Distribution board using MCBS, ELCB main switches.	Drawing Manual	2 <sup>nd</sup> Week		
3.	Single line and wiring diagram of light, fan, and Power Point for a drawing room measuring 7m x 5m. Select suitable numbers of points for this room.	Drawing Manual	3 <sup>rd</sup> Week		
4.	Single line and wiring diagram of workshop measure 10m x 4m containing 2 three-phase induction motors of 2 HP & 5 HP rating and two single phase induction motors of 1 HP rating each.	Drawing Manual	4 <sup>th</sup> Week		
5.	Simple Electric Circuits (Wiring and Single line diagram).	Drawing Manual	5 <sup>th</sup> Week		
6.	Projections of Electrical Accessories like Bus Bar post.	Drawing Manual	6 <sup>th</sup> Week		
7.	Projections of Pin type and Shackle insulators.	Drawing Manual	7 <sup>th</sup> Week		
8.	Projections of Rotor of a Squirrel cage induction motor.	Drawing Manual	8 <sup>th</sup> Week		
9.	Projections of Pole and Coil of DC Machine.	Drawing Manual	9 <sup>th</sup> Week		
10.	Projections of Slip rings of 3-phase Slip-ring induction Motor.	Drawing Manual	10 <sup>th</sup> Week		
11.	Schematic and Wiring Diagram of DOL Starter of 3-phase induction Motor.	Drawing Manual	11 <sup>th</sup> Week		

12	Schematic and Wiring Diagram of Forwarding/reversing of 3-phase induction motor.	Drawing Manual	12 <sup>th</sup> Week		
13	Schematic and Wiring Diagram Limit switch control of a 3-phase induction motor.	Drawing Manual	13 <sup>th</sup> Week		
14	Introduction & interpreting drawings related to Electrical substation, Industries & domestic electrical circuits using E-CAD	Drawing Manual	14 <sup>th</sup> Week		



Signature of Teacher with Date



Signature of H.O.D.