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| **GBN Govt. Polytechnic Nilokheri, Karnal****Electrical Engineering Department****Lesson plan**

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| **Name of Faculty** | **Sh. Rupinder Cheema** |
| **Discipline** | **Electrical Engineering** |
| **Semester** | **4th** |
| **Subject** | **ELECTRICAL ENGINEERING DESIGN & DRAWING-II** |
| **Lesson Plan Duration** | From March 2023 to June 2023 |
| **Work load [Theory + Practical] Per Week** | **Lectures-Nil, Practical- 06** |

 |
| **Week** |  | **Drawings** |
|  | **Practical Periods** |  **Topic (including test)** |
| 1st | 1st | Discussion of Learning Outcomes, Introduction of Electrical Engg. Design. & Drawing. |
| 2nd | Unit 1 : (Contractor Control circuits) - To make the drawing sheet (Schematic diagram and power wiring diagram of DOL starting of 3-phase induction motor.  |
| 3rd |
| 4th | Unit 1 : (Contractor Control circuits) - To make the drawing sheet (Schematic diagram and power wiring diagram of 3-phase induction motor getting supply selected feeder.  |
| 5th |
| 6th |
| 2nd | 7th | Unit 1 : (Contractor Control circuits) - To make the drawing sheet (Schematic diagram and power wiring diagram of Forwarding/ reversing of a 3-phase induction motor.  |
| 8th |
| 9th |
| 10th | Revision of previous making drawing sheets for left out students if any and checking of making drawing sheets |
| 11th |
| 12th |
| 3rd | 13th | Unit 1 : (Contractor Control circuits) - To make the drawing sheet (Schematic diagram and power wiring diagram of Two speed control of 3-phase induction motor.  |
| 14th |
| 15th |
| 16th | Unit 1 : (Contractor Control circuits) - To make the drawing sheet (Schematic diagram and power wiring diagram of Limit switch control of a 3-phase induction motor.  |
| 17th |
| 18th |
| 4th | 19th | Unit 1 : (Contractor Control circuits) - To make the drawing sheet (Schematic diagram and power wiring diagram of Sequential operating of two motors using time delay relay.  |
| 20th |
| 21st |
| 22nd | Unit 1 : (Contractor Control circuits) - To make the drawing sheet (Schematic diagram and power wiring diagram of Manually generated star delta starter for 3-phase induction motor.  |
| 23rd |
| 24th |
| 5th | 25th | Unit 1 : (Contractor Control circuits) - To make the drawing sheet (Schematic diagram and power wiring diagram of Automatic star delta starter for 3-phase induction motor.  |
| 26th |
| 27th |
| 28th | Class test for preparation of Its sessional exam and checking of previous drawing sheets. |
| 29th |
| 30th |
| 6th | 31st | Unit 2 : (Earthing) - Concept and purpose of earthing.  |
| 32nd |
| 33rd |
| 34th | Unit 2 : (Earthing) - Different types of earthing : To make the drawing sheet of plate earthing.  |
| 35th |
| 36th |
| 7th | 37th | Unit 2 : (Earthing) - To make the drawing sheet of Pipe earthing.  |
| 38th |
| 39th |
| 40th | Unit 2 : (Earthing) - Revision of previous making drawing sheets and check the making drawing sheets.  |
| 41st |
| 42nd |
| 8th | 43rd | Unit 2 : (Earthing) - Procedure of earthing, test of materials required and costing and method of reducing earth resistance.  |
| 44th |
| 45th |
| 46th | Unit 2 : (Earthing) - Relevant IS specifications of earth electrode for earthing a transformer, a high building.  |
| 47th |
| 48th |
| 9th | 49th | Unit 2 : (Earthing) - Earthing layout of distribution transformer.  |
| 50th |
| 51st |
| 52nd | Unit 2 : (Earthing) - Substation earthing layout and earthing materials and key diagram of 11KV substation.  |
| 53rd |
| 54th |
| 10th | 55th | Unit 2 : (Earthing) - Key diagram of 33KV, 66KV sub stations.  |
| 56th |
| 57th |
| 58th | Unit 2 : (Earthing) - Key diagram of 132KV substation and preparation of 2nd sessional exam.  |
| 59th |
| 60th |
| 11th | 61st | Unit 3 : schematic diagram of lighting system of Conference Room |
| 62nd |
| 63rd |
| 64th | Unit 3 : schematic diagram of lighting system of theatre/sports stadium |
| 65th |
| 66th |
| 12th | 67th | Unit 3 : checking of sheets |
| 68th |
| 69th |
| 70th | Unit 3 : revision and checking of sheets |
| 71st |
| 72nd |
| 13th | 73rd | Unit 3 : timers circuits using CAD |
| 74th |
| 75th |
| 76th | Unit 3 : ABOVE.  |
| 77th |
| 78th |
| 14th | 79th | Unit 3 : Repeat |
| 80th |
| 81st |
| 82nd | Unit 3 : Discussion of Previous year hsbte question paper |
| 83rd |
| 84th |
| 15th | 85th | Preparation of IIIrd sessional exam and checking of previous drawing sheets (If any) |
| 86th |
| 87th |
| 16th | 88th | Revision of all above making drawing sheets and preparation of final Exam. |
| 89th |
| 90th |