| Electrical and Electronics Design Laboratory | |
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| Sl. No. | Design Problems |
| 01 | Designing a heating element with specified wattage, voltage and ambient temperature. |
| 02 | Designing an air core grounding reactor with specified operating voltage, nominal current and fault current |
| 03 | Designing the power distribution system for a small township |
| 04 | Designing a double circuit transmission line for a given voltage level and power (MVA) transfer. |
| 05 | Wiring and installation design of a multistoried residential building (G+4, not less than 16 dwelling flats with a lift and common pump) |
| 06 | Designing an ONAN distribution transformer. |
| 07 | Designing a three-phase squirrel cage induction motor. |
| 08 | Designing a three-phase wound rotor induction motor. |
| 09 | Designing a split phase squirrel cage induction motor for a ceiling fan or a domestic pump. |
| 10 | Designing a permanent magnet fractional hp servo motor. |
| 11 | Design the control circuit of a Lift mechanism |
| 12 | Design a controller for speed control of DC machine. |
| 13 | Design a controller for speed control of AC machine. |
| 14 | Electronic system design employing electronic hardware (Analog, Digital, Mixed signal), microcontrollers, CPLDs, and FPGAs, PCB design and layout leading to implementation of an application. |
| 15 | Design of Power Electronic based systems. |