Diploma, Anna University-UG, PG., HSC & SSLC

Notes
Syllabus
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33076- Electrical Machine Design Practical

DETAILED SYLLABUS

List of Experiments

- 1. By simple experiment, verify the magnetic laws using Coil, permanent magnet and Galvanometer.
- 2. Verify the rotating magnetic field with stator and ball.
- 3. Measure magnetic flux using flux meter.
- 4. Using Crawler test the windings.
- 5. Design a 1 phase 1 KVA ,230/15V core type transformer and assemble the core.
- 6. Design a 1 phase 1KVA, 230/15V shell type transformer and assemble the core.
- 7. Design 3 phase 1 KVA transformer and assemble winding, core, etc.,
- Design 3 phase 1 KVA transformer (delta/star connected) and wind one coil set.
 Curriculum Development Centre, DOTE. Page 162
- 9. Design armature for 5 KWdc machine and insert one coil set.
- 10. Design field pole for 5 KWdc machine and assemble one pole and insert in the body.
- 11. Assemble the given dc machine (pole, inter pole, armature, commutator, brush etc).
- 12. Design and assemble ceiling fan.
- 13. Design and assemble a 3 HP induction motor.
- 14. Design and assembled 3phase 3HP synchronous motor.
- 15. Dismantle and assemble a 3 phase wound rotor induction motor.
- 16. Design and assembled 1phasesalient pole 5KVA alternator.