IV Year I - Semester

L T P To C

AG419 Refrigeration and Air Conditioning

Course Description & Objectives:

This subject explores the basics of psychrometry and various types of refrigeration and air-conditions system which will be applicable for both domestic and industry.

Course Outcomes:

Students will have practical knowledge of refrigeration system to broaden its industrial applications and uses.

List of Experiments:

- 1. Study of vapour compression and vapour absorption systems
- 2. Study of eletrolux refrigerator
- 3. Solving problems on refrigeration on vapour absorption system
- 4. Experiments with the refrigeration tutor to study various components of refrigeration
- 5. Determination of the coefficient of performance of the refrigeration tutor
- 6. Experiment on humidifier for the determination of humidifying efficiency
- Experiment on dehumidifier for the determination of dehumidifying efficiency
- 8. Experiment on the cooling efficiency of a domestic refrigerator
- Experiments on working details of a cold storage plant and air conditioning unit
- 10. Experiments with air conditioning tutor to study various components
- 11. Determination of the coefficient of performance of air condititiong tutor
- Estimation of refrigeration load; Estimation of cooling load for air conditioner
- 13. Estimation of humidification and dehumidification load
- 14. Design of complete cold storage system.