COMPUTER AIDED DESIGN OF CHEMICAL EQUIPMENT-LAB

Course Code: 15CH1147

L	T	P	C
0	0	3	2

Course Outcomes :

At the end of the Course, the Student will be able to:

CO 1 Review the standard flow sheet symbols and construct a flow sheet using the symbols

CO 2 Analyze a given situation, identify the type of heat exchanger, design and evaluate the heat exchanger

CO 3 Identify and design a suitable evaporator for evaporation process

CO 4 Design a distillation column and absorber for a given problem

CO 5 Apply PRO-II and simulate distillation column, heat exchanger and absorber

LIST OF EXPERIMENTS/PROGRAMMES:

1. Introduction of different basic symbols and drawing flow sheet symbols.
2. Design of a Double Pipe Heat Exchanger
3. Design of a 1-2 shell & tube Heat Exchanger-Rating
4. Design of a 1-2 shell & tube Heat Exchanger-Sizing
5. Design of a Evaporator
6. Design of a Tray Distillation Column
7. Design of a Packed Distillation Column
8. Design of a Batch Reactor
9. Process simulation of Absorber using PRO-II
10. Process simulation of Distillation Column using PRO-II
11. Process simulation of LLE columns using PRO-II