

Projects Guided during 1999-2000

1. Study Oriented Projects (BITS C323/BITS C324): 2 Students

S.No.	Title of the Project	Date of Commencement	Date of Submission
1.	Life Cycle Analysis and Pollution Prevention Methodology	02-08-1999	30-11-1999
2.	Novel Separation Techniques	06-01-2000	29-04-2000

2. Computer Projects (BITS C331 & BITSC335): 12 Students

S.No.	Title of the Project	Date of Commencement	Date of Submission
1.	Computer-Aided Process Design of Shell-and-Tube Heat Exchanger.	02-08-1999	30-11-1999
2.	Simulation & Comparison of various methods for Multi-Component Distillation.	02-08-1999	30-11-1999
3.	Computational Estimation Methods for Packed Bed Heat Transfer Parameters.	02-08-1999	30-11-1999
4.	Software Package for the Mechanical Design of Shell-and-Tube Heat Exchanger.	02-08-1999	30-11-1999
5.	HENS based on Dual Approach Temperature Method.	06-01-2000	29-04-2000
6.	Network Evolution and Evaluation in Pinch Technology.	06-01-2000	29-04-2000
7.	The Process & Mechanical Design of Plate-and-Frame Heat Exchangers.	06-01-2000	29-04-2000
8.	Heat Transfer Augmentation using Twisted Tapes.	06-01-2000	29-04-2000
9.	Optimization of a Thermal Cracker Design using Differential Evolution.	06-01-2000	29-04-2000
10.	Artificial Neural Networks for Modeling the removal of Metals from Contaminated Water.	06-01-2000	29-04-2000
11.	Software Package for the Design of Heat Exchangers & Evaporators.	06-01-2000	29-04-2000
12.	Performance Evaluation of Mechanical Operation Units.	06-01-2000	29-04-2000

(Continued.....)

3. Lab Oriented Projects (BITS C313): 1 Student

S.No.	Title of the Project	Date of Commencement	Date of Submission
1.	Hydrodynamics and Heat Transfer in Two-Phase Cocurrent Downflow through Packed Beds.	06-01-2000	29-04-2000

4. Special Projects (CHE C491/ET C491): 3 Students

S.No.	Title of the Project	Date of Commencement	Date of Submission
1.	Design Aspects & Applications of Super-Critical Fluid Extraction.	02-08-1999	30-11-1999
2.	Neural Networks for the Optimal Design of Heat Exchangers.	06-01-2000	29-04-2000
3.	Lean Manufacturing Systems for reducing Manufacturing Lead-time in Shop Floor.	06-01-2000	29-04-2000

5. Projects for Process Plant Simulation Course (CHE G541): 6 Students

S.No.	Title of the Project	Date of Commencement	Date of Submission
1.	Modeling & Simulation of Methanol Synthesis.	02-08-1999	30-11-1999
2.	Process Analysis of Membrane based Gas Separation Systems.	02-08-1999	30-11-1999
3.	Modeling & Simulation of Dynamic Distillation Operation.	02-08-1999	30-11-1999
4.	Optimization & Dynamic Simulation of Catalytic Steam Reforming.	02-08-1999	30-11-1999
5.	Linear Programming based Optimal Design of Heat Exchanger Network Synthesis.	02-08-1999	30-11-1999
6.	Modeling & Simulation of Multi-component Separation in Distillation Columns.	02-08-1999	30-11-1999

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6. Projects for Reaction Engineering Course (CHE G641): 12 Students

S.No.	Title of the Project	Date of Commencement	Date of Submission
1.	Design, Modeling, and Simulation of Co-current Downflow Fixed Bed Reactors.	06-01-2000	29-04-2000
2.	Design, Modeling, and Simulation of Counter-current Flow Fixed Bed Reactors.	06-01-2000	29-04-2000
3.	Design of Bio-Reactor.	06-01-2000	29-04-2000
4.	Design of Membrane Reactor.	06-01-2000	29-04-2000
5.	Design, Modeling, and Simulation of Co-current Upflow Fixed Bed Reactors.	06-01-2000	29-04-2000
6.	Design and Simulation of Spray Tower Loop Reactors.	06-01-2000	29-04-2000

7. Projects for Professional Assistants: 7 Students

S.No.	Title of the Project	Date of Commencement	Date of Submission
1.	Computerization of Workshop Stores & Office with Java as front-end and Oracle as back-end.	02-08-1999	14-12-1999
2.	Computerization of Workshop Stores & Office with Java as front-end and Oracle as back-end.	06-01-2000	02-05-2000
3.	EDD Notes Preparation for Process Plant Simulation Course (CHE G541).	06-01-2000	02-05-2000