

INSTITUTE	DIPLOMA STUDIES
PROGRAM	DIPLOMA ENGINEERING (CHEMICAL ENGINEERING)
SEMESTER	5
COURSE TITLE	PROJECT - I
COURSE CODE	09CH2504
COURSE CREDITS	3

Objective:

- 1 To learn about various manufacturing processes of chemicals and select a suitable method for achieving maximum output

Course Outcomes: After completion of this course, student will be able to:

- 1 Select problem in current chemical industries
- 2 Apply the fundamental concept of chemical engineering subjects to solve the problem
- 3 Improve their presentation & technical skills

Pre-requisite of course: Fundamental knowledge of chemical engineering basic subjects

Teaching and Examination Scheme

Theory Hours	Tutorial Hours	Practical Hours	ESE	IA	CSE	Viva	Term Work
0	0	6	0	0	0	50	50

Contents : Unit	Topics	Contact Hours
Total Hours		

Suggested List of Experiments:

Contents : Unit	Topics	Contact Hours
1	Manufacturing of any one of products from below mentioned industries 1. Petrochemicals 2. Pharmaceuticals 3. Natural product industries 4. Dyes and Dyes intermediates 5. Miscellaneous	42
2	Content of Project Report 1. Introduction 2. Present status including list of industries 3. Properties of products 4. Applications of products 5. Raw materials 6. Manufacturing processes 7. Selected process description 8. Equipment 9. Parameters 10. Results 11. Conclusion	42
Total Hours		84

Textbook :

- 1 Perry's Chemical Engineers' Handbook, 9th edition, Don W. Green, Marylee Z. Southard, McGraw-Hill, 2018

References:

- 1 Unit Operations of Chemical Engineering , n7th Edition, Unit Operations of Chemical Engineering , n7th Edition, McCabe, Smith, and Harriott, McGraw-Hill, 2016

Suggested Theory Distribution:

The suggested theory distribution as per Bloom's taxonomy is as follows. This distribution serves as guidelines for teachers and students to achieve effective teaching-learning process

Distribution of Theory for course delivery and evaluation					
Remember / Knowledge	Understand	Apply	Analyze	Evaluate	Higher order Thinking
30.00	40.00	30.00	0.00	0.00	0.00

Instructional Method:

- 1 The course delivery method will depend upon the requirement of content and need of students.