B.Tech. IV: SEM-VIII

Subject Name: Project – II **Subject Code: BTCH16801**

Type of course: Project work and internship in industry

Prerequisite: Chemical Engineering courses (Basic science, Engineering Science and core courses), Effective Technical Communication and Design Engineering

Rationale: To enhance employability skills of the students Internship or Project work is required. It provides practical experience in a field of Chemical Engineering and help to reinforce theoretical knowledge gained in different courses to solve real life challenges. The students are given exposure to explore the new developments and techniques, which can lead them to self- employment or even employment generation through extension of the work done in project.

Teaching Scheme:

TEACHING SCHEME				Theory Marks			Practical Marks		Total
L	T	P	C	TEE	CA1	CA2	TEP	CA3	100
0	0	4	2	0	0	0	60	40	

CA1: Continuous Assessment (assignments/projects/open book tests/closed book tests **CA2:** Sincerity in attending classes/class tests/ timely submissions of assignments/self-learning attitude/solving advanced problems **TEE:** Term End Examination **TEP:** Term End Practical Exam (Performance and viva on practical skills learned in course) **CA3:** Regular submission of Lab work/Quality of work submitted/Active participation in lab sessions/viva on practical skills learned in course

Content:

- Under the above subject each student will continue the chemical industry based or practical based project work which was assigned to him/her in 7th semester under the supervision of teaching staff member and will submit in the form of a report as Project-II.
- The duration to complete the said work will be 4 -6 weeks.
- The performance of the student will be assessed based on the written report, weekly diary & a presentation to the committee consisting of expert faculty members assigned from the University. The evaluation by external examiner shall be made considering the all guidelines.

Suggested Specification Table with Marks: % Distribution of Marks					
R Level	U Level	A Level	N Level	E Level	C Level
5	10	30	30	15	10

Legends: R: Remembrance; U: Understanding; A: Application; N: Analyze; E: Evaluate; C: Create and above Levels (Revised Bloom's Taxonomy)

Note: This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the question paper may vary slightly from above table.

Course Outcome:

Sr. No.	CO Statement After learning this subject, students will be able to	Marks % weightage
CO-1	Analyze and compile critical research outcomes through reliable scientific literature (in case of new problem)	20
CO-2	Perform experiments or simulation to solve the research problem	20

CO-3	Present the research outcome scientifically through thesis/dissertation writing to document the findings of research	30
CO-4	Adapt knowledge regarding procedure to write research/review paper.	20
CO-5	Build knowledge, skills and attitudes of a professional engineer.	10

Mapping with POs:

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
CO-1	2	2	2	2	2	2	2	3	3	3	3	3	3	2	3
CO-2	2	3	2	2	3	2	2	3	3	2	3	3	3	2	3
CO-3	3	3	2	2	2	3	3	3	3	3	3	3	3	3	3
CO-4	3	3	3	2	3	3	3	3	3	3	3	3	3	3	3
CO-5	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Rationale*	13	14	9	9	11	13	13	15	15	10	15	15	15	13	14

Rationale*: Explaining why it is matching this particular program outcome

List of Open learning website: **NPTEL lectures. Simulation software SCLAB learning version is available free online.**