

CHE-281-CEP: Community Engagement Project (CEP)

Course Type: Community Engagement Project (CEP)

No. of Credits: 2

Objective:

To sensitize students towards societal needs, promote citizenship behaviour, and contribute to community well-being using chemistry knowledge.

Course Outcomes

At the end of the course, Student will be able to

1. Identify the chemical aspects of local community issues such as water quality, waste management, or household chemical safety.
2. Understand the societal issues and can provide a scientific solution
3. Apply chemistry knowledge to promote awareness about safe chemical practices, sustainability, and green alternatives in daily life.
4. Analyse the effectiveness of community engagement activities based on feedback and participation data.
5. Assess the societal issues through the group-based outreach and community interactions.
6. Plan chemistry-related awareness activities such as demonstrations, campaigns, or surveys in schools or local communities.

Community Engagement Project (CEP) Guidelines

1. Themes (Chemistry Related):

- Awareness campaign on safe use of chemicals.
- Awareness drives on e-waste or plastic waste segregation.
- Demonstrations of eco-friendly household products (detergents, soaps, cleaners).
- Community survey on water purification methods and promoting alternatives.
- Public education on food safety (e.g., adulteration tests).
- Tree plantation with explanation of soil-plant-chemistry interaction.
- Participating in science exhibitions or awareness sessions in schools.
- Any other related to chemistry

2. Key Activities:

- Group discussions with community members.
- Designing posters, pamphlets, or short videos for awareness.
- Science demonstration sessions for school children or villagers.

- Surveys and interviews to collect feedback and awareness levels.

3. Duration:

Minimum **60 hours** of engagement (including preparation, visits, interaction, and reflection).

4. Report Structure:

- Title page
- Certificate of completion of Field project from mentor and HOD.
- Declaration by candidate regarding plagiarism
- Index
- Abstract of the project
- Chapter-1: Introduction to problem (introduction, signification of research problems selected, aims and objectives) (5 to 6 pages)
- Chapter-2: Review of Literature (Related Research Problem) (5-6 pages)
- Chapter-3: Material and Methods/Methodology/Experimental (5-7 pages)
- Chapter-4: Results and Discussion or Data and Interpretation of data (8 – 10 pages)
- Chapter-5: Conclusions (1-2 pages)
- Bibliography/References
- Acknowledgement

5. Assessment Criteria (Suggested):

Criteria	Marks
Planning and Initiative	7
Community Interaction	7
Contribution to Social Cause	7
Report & Reflection	7
Presentation	7
Total	35 Marks

Note: 15 marks for internal assessment

6. General Guidelines (Common to FP and CEP):

- Projects can be interdisciplinary but must involve chemistry as a core element.
- Ethical conduct and respect for community are essential.
- Students are encouraged to present their work in college exhibitions or seminars.
- Photographic or video evidence should support fieldwork/CEP.

7. Faculty Responsibilities:

- Approve project topics.
- Guide students throughout the project.
- Monitor and document student participation.
- Organize viva/presentation for evaluation.