

Charotar University of Science and Technology (CHARUSAT)

(Established under the Gujarat Private University Act, 2009)

CHARUSAT Campus, Changa - 388 421, Gujarat, India

CUUV101

Community Engagement & Sustainable Development (CESD)

Organized for Students of

Chandubhai S. Patel Institute of Technology (CSPIT)

Devang Patel Institute of Advanced Technology and Research (DEPSTAR)

Faculty of Technology and Engineering (FTE)

Organized Under

CHARUSAT National Service Scheme Cell

CHARUSAT Rural Education Development Program (CREDP)

Charotar University of Science and Technology (CHARUSAT)

Two-credit course – Workshop Mode

Faculty of Technology and Engineering (FTE)

CSPIT and DEPSTAR

Course Code: CUUV101

Course Title: Community Engagement and Sustainable Development (CESD)

Credits	Course Duration (Hours)	Course Span
2	45	2 nd Semester

Activity plan for organizing the **Community Engagement and Sustainable Development (CESD) course in workshop mode**. The proposed activity plan for the Community Engagement and Sustainable Development (CESD) workshop is comprehensive and well-structured. It integrates interactive, practical, and reflective modes effectively to engage students while meeting the course objectives.

Coordination Team

Designation	Name	Role / Responsibility	Email ID
Faculty Coordinator	Prof. Kishan Patel	Program Coordinator, NSS	coordinator.nss@charusat.ac.in kishanpatel.ee@charusat.ac.in
Faculty Coordinator	Dr. Dilip Gosai	Head, CREDP	head.credp@charusat.ac.in dilipgosai.pr@charusat.ac.in
Course Instructor(s)	Conducts workshop sessions, evaluates activities, and guides student projects		cesdfte.charusat@zohomail.in

Evaluation Pattern (Workshop Mode)

#	Component	Details	Marks
1	Attendance & Active Participation	Based on attendance, punctuality, engagement in discussions, and teamwork throughout the week.	20
2	Daily Logbook	Students maintain a daily record of activities, learning outcomes, and reflections on community interaction. Digital copy of the same must be submitted daily on Google Classroom.	10
3	Field Visit / Community Immersion Report	Evaluation of students' observation, participation, and contribution during community visits.	10
4	Assessment Activity		15+15+ 10
	Group Work & Presentation	Includes group work, presentation, poster presentation, and case study report. (15)	
	MOOC Course Requirement	Community Engagement, Social Responsibility, or Sustainable Development. Students are required to update their MOOC progress regularly on Google Classroom. (15)	
	Quiz / Examination	Quiz or Examination based on CESD_FTE - 3 Chapters, supported with reference material aligned with MOOC content. (Study material will be provided.) (10)	
5	Report	Students must prepare a complete compiled report covering the full workshop activities, outcomes, and learnings.	20
	Total		100 Marks

Important Note:

Course Completion and Evaluation Criteria

- To successfully obtain **2 Credits** for the course **CUUV101 - Community Engagement and Sustainable Development (CESD)**, students must adhere to the following requirements:

Credit Eligibility Requirements

- **Minimum Attendance:** 75% attendance during the 7-day workshop is compulsory.
- **Minimum Marks:** Students must secure **at least 80% marks** in total evaluation.

Attendance and Leave Policy

- In case of absence due to genuine reasons (medical or personal emergencies), the student must submit a **proper and official proof** to the **Course Instructor / Course Convener / Coordinator** via **email** and **in person** for record-keeping.
- No make-up sessions or lectures will be conducted once the workshop is completed.
- Students falling **below the minimum attendance criteria** will be required to submit an **additional assignment** as instructed by the course team.

Submission Guidelines

- All **tasks, reports, and assignments** must be submitted **on or before the given deadline**.
- **No exceptions or extensions** will be granted beyond the submission date.
- Failure to submit within the stipulated timeline may lead to **grade reduction** or **non-award of credits**.

Note from CESD Coordination Team

- The CESD Workshop aims to foster responsibility, discipline, and active participation. Timely attendance, engagement, and submission are integral components of the learning and evaluation process.

Evaluation Pattern 4:

1. ASSESSMENT STRUCTURE

Chap. No.	Chapter Title	Topics Covered	Weightage (%)
Chap.1	Foundations of Community Engagement and Rural Development Systems	Concepts of Community, CE Perspectives, Spectrum of Engagement, Approaches (C4D, COMBI), Ethics, Rural Culture, RCD, Panchayati Raj, Rural Health System, UN Sustainable Development Goals (SDGs) and Their Relevance to Community Development	35%
Chap.2	Participatory Methods, Entrepreneurship, and Local Innovation	PRA Methods, Principles, SHGs, Local Innovation/Jugaad, CDD, Leadership, Water Resource Management, Community Assets	30%
Chap.3	Research, Policy and Evaluation, Contemporary Challenges	CEnR Models (CBPR, PAR), Ethics, Program Evaluation, Qualitative & Quantitative Methods, Social Networks & Media, Government Schemes, Rural Distress, Poverty, Disaster Management	35%

All questions will be directly based on the provided reading materials (Ch.1, Ch.2, Ch.3).

2. QUESTION PAPER PATTERN

Question Type	No. of Questions	Marks/Q	Unit 1	Unit 2	Unit 3	Total Marks
MCQs	25	1	9	7-8	9	25
True / False	10	1	4	3	3	10
Fill in the Blanks	10	1	4	3	3	10
Match the Following	2	2.5	1	0	1	5
TOTAL	47 Questions	—	18 Qs	14-15 Qs	16-17 Qs	50 Marks

Course Outcomes (COs)

CO Code	Course Outcome Statement	Bloom's Level
CO1	Explain the principles of community engagement, sustainability, and social responsibility within the engineering context.	Understand (L2)
CO2	Demonstrate environmental awareness and apply sustainable practices through community-based participation and campaigns.	Apply (L3)
CO3	Exhibit civic awareness, teamwork, and ethical values through health, social, and civic engagement activities.	Apply / Analyze (L3-L4)
CO4	Design and propose innovative, technology-driven, and sustainable solutions addressing local community challenges aligned with SDGs.	Analyze / Create (L4-L6)
CO5	Reflect, document, and communicate learnings, experiences, and community project outcomes effectively.	Evaluate / Create (L5-L6)

Program Outcomes (PO1 – PO12)

PO No.	Program Outcome
PO1	Engineering Knowledge
PO2	Problem Analysis
PO3	Design/Development of Solutions
PO4	Conduct Investigations of Complex Problems
PO5	Modern Tool Usage
PO6	The Engineer and Society
PO7	Environment and Sustainability
PO8	Ethics
PO9	Individual and Team Work
PO10	Communication
PO11	Project Management and Finance
PO12	Life-Long Learning

Program Specific Outcomes (PSOs)

PSO Code	Program Specific Outcome
PSO1	Apply interdisciplinary engineering knowledge to design sustainable, community-centric, and technically viable solutions.
PSO2	Integrate innovation and social responsibility in engineering practices for inclusive development.

Course Articulation Matrix (CO-PO-PSO Mapping)

Scale: 0 = Not Applicable 1 = Low 2 = Medium 3 = High

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	1	0	0	0	2	3	3	1	2	0	2	2	2
CO2	1	2	2	0	2	3	3	2	2	2	0	2	3	3
CO3	0	1	1	0	0	3	2	3	3	2	0	2	2	3
CO4	2	3	3	2	3	3	3	2	3	3	2	3	3	3
CO5	0	1	1	0	1	2	2	3	3	3	1	3	2	3

Narrative Justification of Mapping

CO	Key PO-PSO Linkages and Rationale
CO1	Strongly supports PO6-PO8 by embedding social and ethical engagement principles. Contributes to PO7 through sustainability learning. Aligns with PSO1-PSO2 by connecting technical context to community needs.
CO2	Relates to PO5-PO7 via applied environmental practices and modern digital awareness tools. Strengthens PSO1 through climate-action projects and sustainable engineering interventions.
CO3	Develops civic, ethical, and collaborative traits (PO6, PO7, PO8, PO9). Encourages inclusive teamwork (PO9) and effective participation (PSO2).
CO4	Represents the core design and innovation outcome — major correlation with PO2-PO5, PO7, PO12 , and both PSOs through interdisciplinary innovation addressing community challenges.
CO5	Reinforces PO10 (communication) and PO12 (life-long learning) through report writing and reflection. Promotes ethical documentation (PO8) and innovation transfer (PSO2).