

**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 <sup>nd</sup> 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	<a href="mailto:coordinator.nss@charusat.ac.in">coordinator.nss@charusat.ac.in</a> <a href="mailto:kishanpatel.ee@charusat.ac.in">kishanpatel.ee@charusat.ac.in</a>
Faculty Coordinator	Dr. Dilip Gosai	Head, CREDP	<a href="mailto:head.credp@charusat.ac.in">head.credp@charusat.ac.in</a> <a href="mailto:dilipgosai.pr@charusat.ac.in">dilipgosai.pr@charusat.ac.in</a>
Course Instructor(s)	Conducts workshop sessions, evaluates activities, and guides student projects		<a href="mailto:cesdfte.charusat@zohomail.in">cesdfte.charusat@zohomail.in</a>

## Evaluation Pattern (Workshop Mode)

#	Component	Details	Marks
1	<b>Attendance &amp; Active Participation</b>	Based on attendance, punctuality, engagement in discussions, and teamwork throughout the week.	<b>20</b>
2	<b>Daily Logbook</b>	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.	<b>10</b>
3	<b>Field Visit / Community Immersion Report</b>	Evaluation of students' observation, participation, and contribution during community visits.	<b>10</b>
4	<b>Assessment Activity</b>		<b>15+15+10</b>
	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 <b>CESD_FTE - 3 Chapters</b> , supported with reference material aligned with MOOC content. (Study material will be provided.) (10)	
5	<b>Report</b>	Students must prepare a complete compiled report covering the full workshop activities, outcomes, and learnings.	<b>20</b>
	<b>Total</b>		<b>100 Marks</b>

### **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	<b>Foundations of Community Engagement and Rural Development Systems</b>	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	<b>35%</b>
Chap.2	<b>Participatory Methods, Entrepreneurship, and Local Innovation</b>	PRA Methods, Principles, SHGs, Local Innovation/Jugaad, CDD, Leadership, Water Resource Management, Community Assets	<b>30%</b>
Chap.3	<b>Research, Policy, Evaluation, and Contemporary Challenges</b>	CEnR Models (CBPR, PAR), Ethics, Program Evaluation, Qualitative & Quantitative Methods, Social Networks & Media, Government Schemes, Rural Distress, Poverty, Disaster Management	<b>35%</b>

*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
<b>TOTAL</b>	47 Questions	—	18 Qs	14-15 Qs	16-17 Qs	50 Marks

### Course Outcomes (COs)

CO Code	Course Outcome Statement	Bloom's Level
<b>CO1</b>	Explain the principles of community engagement, sustainability, and social responsibility within the engineering context.	Understand (L2)
<b>CO2</b>	Demonstrate environmental awareness and apply sustainable practices through community-based participation and campaigns.	Apply (L3)
<b>CO3</b>	Exhibit civic awareness, teamwork, and ethical values through health, social, and civic engagement activities.	Apply / Analyze (L3–L4)
<b>CO4</b>	Design and propose innovative, technology-driven, and sustainable solutions addressing local community challenges aligned with SDGs.	Analyze / Create (L4–L6)
<b>CO5</b>	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
<b>PSO1</b>	Apply interdisciplinary engineering knowledge to design sustainable, community-centric, and technically viable solutions.
<b>PSO2</b>	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

	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PS01	PS02
<b>C01</b>	2	1	0	0	0	2	3	3	1	2	0	2	2	2
<b>C02</b>	1	2	2	0	2	3	3	2	2	2	0	2	3	3
<b>C03</b>	0	1	1	0	0	3	2	3	3	2	0	2	2	3
<b>C04</b>	2	3	3	2	3	3	3	2	3	3	2	3	3	3
<b>C05</b>	0	1	1	0	1	2	2	3	3	3	1	3	2	3

### Narrative Justification of Mapping

<b>CO</b>	<b>Key PO-PSO Linkages and Rationale</b>
<b>C01</b>	Strongly supports <b>P06-P08</b> by embedding social and ethical engagement principles. Contributes to <b>P07</b> through sustainability learning. Aligns with <b>PS01-PS02</b> by connecting technical context to community needs.
<b>C02</b>	Relates to <b>P05-P07</b> via applied environmental practices and modern digital awareness tools. Strengthens <b>PS01</b> through climate-action projects and sustainable engineering interventions.
<b>C03</b>	Develops civic, ethical, and collaborative traits (P06, P07, P08, P09). Encourages inclusive teamwork (P09) and effective participation (PS02).
<b>C04</b>	Represents the core design and innovation outcome — major correlation with <b>P02-P05, P07, P012</b> , and both PSOs through interdisciplinary innovation addressing community challenges.
<b>C05</b>	Reinforces <b>P010</b> (communication) and <b>P012</b> (life-long learning) through report writing and reflection. Promotes ethical documentation (P08) and innovation transfer (PS02).