

Branch Name:	Civil engineering
Program Code:	ET401
Course Name:	Civil Engineering Project
Course Code:	2ET4010606
Pre-requisite Course:	---

RATIONALE:

The “Civil Engineering Project” course is designed to foster “learning to learn,” enabling students to adapt to evolving technologies and skill requirements. It emphasizes planning, timely completion, and developing industry-relevant knowledge, professional attitudes, and social awareness. The course encourages continuous self-updating, inquiry, effective study habits, and overall personality development.

COURSE OBJECTIVE:

The content should be taught and implemented with the aim to develop skills so that students are able to acquire following competencies:

1. To develop of inquisitive rush, innovative skill and confidence to work independently.
2. To participate effectively in group work.
3. To collect relevant data, plan and organize the work.
4. To relate knowledge various courses in lacking a live problem.
5. To make appropriate decision.
6. To conduct a survey and investigation.
7. To solve industry problems.
8. To develop ability during field project work.
9. To develop cost consideration, assess the financial implication and feasibility of the scheme.
10. To prepare the technical reports.

TEACHING AND EVALUATION SCHEME:

Teaching Scheme (Hours per week)				Evaluation Scheme (Marks)			
Lecture	Tutorial	Practical	Credit	Theory		Practical	
				University Assessment	Continuous Assessment	University Assessment	Continuous assessment
-	-	8	4	-	-	40	60

DETAILS OF COURSE CONTENTS:

SR. NO.	TOPIC	WEIGHTAGE
GUIDELINE – 1 FUNDAMENTAL INFORMATION	Guidelines for the students: 1.1 The students are required to continue solving their problem identified. 1.2 Each student or student group would work under the guidance of the Faculty from the College.	15

	1.3 The students are required to submit the Project Report (in the specified format) to their Head of the Department	
GUIDELINE – 2 FORMAT OF REPORT	The project report should consist of following items. Each Project batch must not exceed 12 students. 1. Introduction 2. Literature survey 3. Study Area 4. Methodology/Design/Tests 5. Result and Discussion 6. Conclusion and scope for future study 7. References A summary of work carried out: 2.1. The readings, calculations, results and answers in numerical or graphical form, and a discussion of the results, answers and conclusions.	20
GUIDELINE – 3 PERFORMANCE CRITERIA	The suggested performance criteria is given below: • Initiative in learning/working at site • Level/proficiency of practical skills acquired • Sense of responsibility • Self-expression/Communication skills • Interpersonal skills. • Report writing skills • Viva voce	35
GUIDELINE – 4 REPORT WRITING	The guidelines for preparing the report of Project: 1. Project reports should be typed neatly in Times New Roman letters on both sides of the paper with 1.5 line spacing on a A4 size paper (210 x 297 mm). The margins should be: Left - 1.5", Right - 1", Top and Bottom - 0.75". 2. The total number of reports (Soft bound) to be prepared are • One copy to the dept. / guide • One copy to the candidate. 3. Before taking the final printout: The approval of the concerned guide(s) is mandatory and suggested corrections, if any, must be incorporated. 4. Every copy of the report must contain • Inner title page (White) • Outer title page with a plastic cover • Certificate in the format enclosed both from the college / organization where the project is carried out.	30

	- An abstract (synopsis) not exceeding 100 words, indicating salient features of the work. Chapters (to be numbered in Arabic) containing Introduction-, which usually specifies the scope of work and its importance and relation to previous work and the present developments, Main body of the report divided appropriately into chapters, sections and subsections. - The chapters, sections and subsections may be numbered in the decimal form for e.g. Chapter 2, sections as 2.1, 2.2 etc., and subsections as 2.2.3, 2.5.1 etc. 4.1. The chapter must be left or right justified (font size 16). Followed by the title of chapter centered (font size 18), section/subsection numbers along with their headings must be left justified with section number and its heading in font size 16 and subsection and its heading in font size 14. The body or the text of the report should have font size 12.	
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COURSE OUTCOME:

After completing this course, student will be able to

1. Know the questions to which he is finding answers through experimental work.
2. Perform the practical work with appropriate accuracy.
3. Reduce the experimental readings to the form of answers required.
4. Understand clearly what the reader will want to know.
5. Convince the reader that the answers are valid.
6. Present a reasoned discussion of the significance of the answers he offers.

LIST OF PRACTICAL:

SR. No.	Experiment/Practical
1	Identification of the problem Arise during execution of work.
2	Familiarize with the format of the project report
3	List of suggested criteria for performing the assigned project
4	Final report writing procedure

List of Instruments / Equipment / Trainer Board	
1	Drafting tools like AutoCAD, MS Excel, MS WORD

Presentation work
In the subject minimum 3 presentations should be taken to enhance presentation skills.

LIST OF REFERENCES/ WEB RESOURCE:

1	www.nptel.com
2	www.britannica.com
3	www.issnge.org
4	www.trb.org
5	www.springer.com

CLO	Description	Bloom's Taxonomy Level
CLO1	Know the questions to which he is finding answers through experimental work.	1 Remembering 2 Understanding
CLO2	Perform the practical work with appropriate accuracy.	4 Analyze 3 Applying 5 Evaluate
CLO3	Reduce the experimental readings to the form of answers required.	4 Analyze 3 Applying 5 Evaluate
CLO4	Understand clearly what the reader will want to know.	1 Remembering 4 Analyze 3 Applying
CLO5	Convince the reader that the answers are valid.	2 Understanding 4 Analyze 3 Applying
CLO6	Present a reasoned discussion of the significance of the answers he offers.	4 Analyze 3 Applying

Course Learning Outcomes	Program Outcomes (Po's)											
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CLO1	L		M	H	L		M			L		
CLO2				M							H	M
CLO3	L	M						M				
CLO4				M	H						M	
CLO5		L					L	M	H			L
CLO6	H			M						M		

H: High, M: Medium, L: Low

CANDIDATE'S DECLARATION

I, ----- a student of Diploma in -----
Department, PRN -----of ----- hereby
declare that I own full responsibility for the information, results and conclusions provided in
this project work titled “-----
“submitted to **Sankalchand Patel University** for the award of Diploma in -----
-----To the best of my knowledge, this project work has not been submitted in part or full
elsewhere in any other institution/organization for the award of any certificate/diploma/degree.
I have completely taken care in acknowledging the contribution of others in this academic
work. I further declare that in case of any violation of intellectual property rights and
particulars declared, found at any stage, I, as the candidate will be solely responsible for the
same.

Date:

Place:

Signature of candidate

Name: -----

PRN -----

CERTIFICATE

Certified that this project report entitled -----
-----”which is being submitted by
Mr./Ms., PRN....., a student of
.....in partial fulfillment for the award of **Diploma in Civil
Engineering** during the year is record of students own work carried out
under my/our guidance. It is certified that all corrections/suggestions indicated for internal
Assessment have been incorporated in the Report and one copy of it being deposited in the
polytechnic library.

The project report has been approved as it satisfies the academic requirements in respect of
Project work prescribed for the said diploma.

It is further understood that by this certificate the undersigned do not endorse or approve any
statement made, opinion expressed or conclusion drawn there in but approve the project only
for the purpose for which it is submitted.

Examiner Signature

Head of Department