SCHOOL of ENGINEERING
DEPARTMENT OF CIVIL ENGINEERING

Year: 2022-2023 **Semester: 5th** **Section: 5-CIV-1** **Date: 16-12-2022**

Course Title: Water Infrastructure Systems

Course Code: CIV2047

Type of Session: Peer learning/Remedial Classes

Instructor in Charge: Mr. Bhavan Kumar

Instructor for Section: Mr Bhavan Kumar

Advanced Learner Instructor for the session: B P JANAVI (20201CIV0032)

Name of the Module: Water demand and Water quality

Topics in the Module: Demand of Water: Types of water demands - Factors affecting per capita demand, Variations in demand of water, Peak factor, Design period and factors governing design period

Mode of Instruction: Offline

Teaching Pedagogy: Power Point Presentation

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Attendance:

Sl. No.	Student ID No	Name	Category of Student	Attendance
1	20201CIS0001	VIVEK	Slow	P
2	20201CIV0001	B.LOVELY VERONICA	Slow	P
3	20201CIV0020	A V AJAY	Slow	P
4	20201CIV0029	PRAVEEN V PATIL	Slow	P
5	20201CIV0031	SUNKARA JAYAPRAKASH	Slow	P
6	**20201CIV0040**	**SAI GANESH BALLARY**	Slow	P

Total Number of Eligible Students as Slow Learner: 06

Total Number of Students Present : 06

Time: 8:45AM to 10:30AM

Learning Resources:

- **Sample Material as mentioned in the topic.**

Remarks:

Advanced learner Ms. B P JANAVI explained the concept of Demand of Water: Types of water demands - Factors affecting per capita demand, Variations in demand of water, Peak factor, Design period and factors governing design period to the Slow learners and Average learners who attended the session.

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Year: 2022-2023 **Semester: 5th** **Section: 5-CIV-1** **Date: 02-12-2022**

Course Title: Water Infrastructure Systems

Course Code: CIV2047

Type of Session: Peer learning/Remedial Classes

Instructor in Charge: Mr. Bhavan Kumar

Instructor for Section: Mr Bhavan Kumar

Advanced Learner Instructor for the session: SAYAM BHARAMRAJ DURGE (20201CIV0022)

Name of the Module: Water treatment

Topics in the Module: Water Treatment: Objectives of water Treatment, Treatment flow chart. Sedimentation, Sedimentation aided with Coagulation, optimum dosage of coagulant, design of clariflocculator

Mode of Instruction: Offline

Teaching Pedagogy: Power Point Presentation

REGISTRAR
PRESIDENCY UNIVERSITY Registrar BANGALORE

Attendance:

Sl. No.	Student ID No	Name	Category of Student	Attendance
1	20201CIS0001	VIVEK	Slow	P
2	20201CIV0001	B.LOVELY VERONICA	Slow	P
3	20201CIV0020	A V AJAY	Slow	P
4	20201CIV0029	PRAVEEN V PATIL	Slow	P
5	20201CIV0031	SUNKARA JAYAPRAKASH	Slow	P
6	20201CIV0040	SAI GANESH BALLARY	Slow	P

Total Number of Eligible Students as Slow Learner: 06

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Total Number of Students Present : 06
Time: 8:45AM to 10:30AM

Learning Resources:

- **Sample Material as mentioned in the topic.**

Remarks:

Advanced learner Mr. Sayam Durge explained the concept of Water Treatment: Objectives of water Treatment, Treatment flow chart. Sedimentation, Sedimentation aided with Coagulation, optimum dosage of coagulant, design of clariflocculator to the Slow learners and Average learners who attended the session.

Signature of Instructor:

Signature of Instructor In-Charge :

Dr. Nakul .R
HOD-Civil
Dr. Nakul R

HOD - CIV

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SCHOOL of ENGINEERING
DEPARTMENT OF CIVIL ENGINEERING

Year: 2022-2023 **Semester: 5th** **Section: 5-CIV-01** **Date:27-12-2022**

Course Title: Design of RC Structural Elements.

Course Code: CIV3003

Instructor in Charge: Mr. Dayalan J

Name of the Module: Design of Columns

Topics in the Module: Effective length, Buckling class, compression member design

Mode of Instruction: Offline (UG02)

Peer Learning: Peer learning is an education method that helps students solidify their knowledge by teaching each other. One student tutoring another in a supervised environment can result in better learning and retention.

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Teaching Pedagogy: Power Point Presentation, Group Discussion

Learning Resources:

- **Sample Material as mentioned in the topic.**

Dr. Nakul .R
HOD-Civil
Dr. Nakul R

Signature of Instructor In-Charge

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PRESIDENCY UNIVERSITY Registrar BANGALORE

SCHOOL of ENGINEERING
DEPARTMENT OF CIVIL ENGINEERING

Year: 2021-2022 **Semester: 3rd** **Section: 3 CIV -1** **Date: 27-12-2022**

Course Title: Fluid Mechanics

Course Code: CIV 2009

Instructor in Charge: Mr Santhosh M B

Name of the Module: Module 3

Topics in the Module: Flow through pipes, loss of pressure in pipes due to friction

Mode of Instruction: Offline (Fluid mechanics lab)

Peer Learning: Peer learning is an education method that helps students solidify their knowledge by teaching each other. One student tutoring another in a supervised environment can result in better learning and retention.

Teaching Pedagogy: Demonstration of experiment and Group Discussion

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Learning Resources:

- **Sample Material as mentioned in the topic.**

Mr Santhosh M B
Course Instructor-In Charge

Dr. Nakul R
HOD-Civil
Dr. Nakul R

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PRESIDENCY UNIVERSITY Registrar BANGALORE

SCHOOL OF ENGINEERING
DEPARTMENT OF CIVIL ENGINEERING

Year: 2022-2023 **Semester: 3rd** **Section: 3 CIV 01** **Date: 16-12-2022**

Course Title: Construction Equipment & Machinery

Course Code: CIV 2038

Instructor in Charge: Ms. Divya Nair

Name of the Module: Module 1, 2 &3

Topics in the Module: Use of Construction equipment in Dangerous Working Environment: Complications, Safety and Hygiene

Mode of Instruction: Offline (UG03) and Online (Microsoft Teams)

Peer Learning: Peer learning is an educational method that helps students to enhance / perfect their knowledge by teaching each other. One student tutoring another in a supervised environment can result in better learning and retention.

Peer Learning

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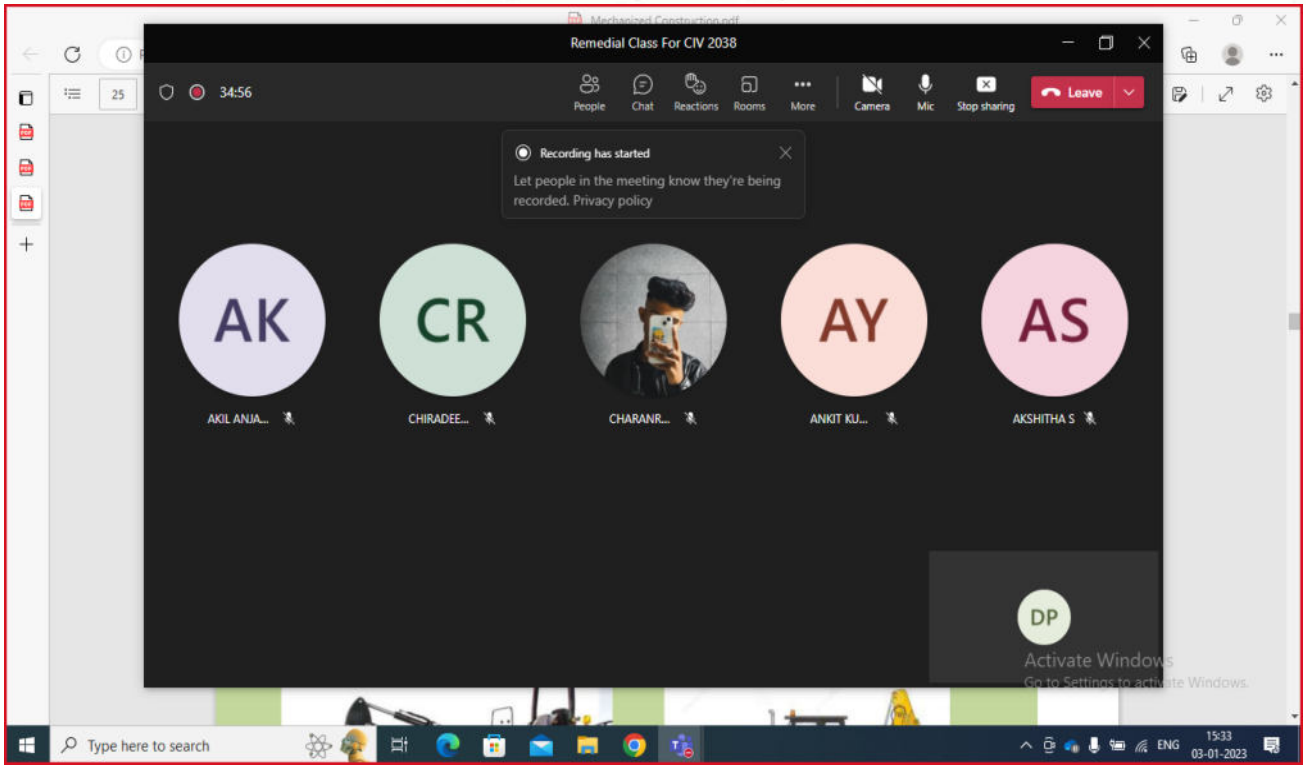

Online class – Microsoft Teams

Teaching Pedagogy: Power Point Presentation, Group Discussion

Learning Resources:

- **Sample Material as mentioned in the topic.**

Ms. Divya Nair
Course Instructor-In Charge

Dr. Nakul R
HOD-Civil

SCHOOL OF ENGINEERING
DEPARTMENT OF CIVIL ENGINEERING

Year: 2022-2023 **Semester: 1st** **Section: 2- BCT** **Date: 16-04-2023**

Course Title: Advanced Construction Materials & Technology

Course Code: CIV 6001

Instructor in Charge: Ms. Divya Nair

Name of the Module: Advanced concretes

Topics in the Module: High Strength/Performance Concrete, Light Weight Concrete, High Density Concrete, Ferro-cement

Mode of Instruction: Offline (QT05)

Peer Learning: Peer learning is an educational method that helps students to enhance / perfect their knowledge by teaching each other. One student tutoring another in a supervised environment can result in better learning and retention.

Peer Learning

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Teaching Pedagogy: Power Point Presentation, Group Discussion

Learning Resources:

- **Sample Material as mentioned in the topic.**

Ms. Divya Nair
Course Instructor-In Charge

Dr. Nakul R
HOD-Civil

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SCHOOL OF ENGINEERING
DEPARTMENT OF CIVIL ENGINEERING

Year: 2022-2023 **Semester: 1st** **Section: 2- BCT** **Date: 16-04-2023**

Course Title: Construction Planning, Schedule & Control

Course Code: CIV 5006

Instructor in Charge: Ms. Divya Nair

Name of the Module: Planning techniques

Topics in the Module: Critical path method (CPM), program evaluation and review technique (PERT)

Mode of Instruction: Offline (QT05)

Peer Learning: Peer learning is an educational method that helps students to enhance / perfect their knowledge by teaching each other. One student tutoring another in a supervised environment can result in better learning and retention.

Peer Learning

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Teaching Pedagogy: Power Point Presentation, Group Discussion

Learning Resources:

- **Sample Material as mentioned in the topic.**

Ms. Divya Nair
Course Instructor-In Charge

Dr. Nakul R
HOD-Civil

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SCHOOL OF ENGINEERING
DEPARTMENT OF CIVIL ENGINEERING

Year: 2022-2023 **Semester: 1st** **Section: 1BES (CIV)** **Date: 05-06-2023**

Course Title: Elements of Engineering Mechanics

Course Code: CIV 1003

Instructor in Charge: Mr. Ajay H A

Peer Learning: Peer learning is an education method that helps students solidify their knowledge by teaching each other. One student tutoring another in a supervised environment can result in better learning and retention.

Topics related to Peer learning: Friction due to motion of bodies

Mode of Instruction: Offline (PT01)

Advanced learner helping his peers – slow learners to understand concepts related to friction and problem solving approaches.

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Teaching Pedagogy: Black board teaching, One-to-One discussion

Learning Resources: Class notes, Textbooks

Dr. Nakul .R
HOD-Civil
Dr. Nakul R

Signature of Instructor In-Charge

Dr. Nakul Ramanna

HOD - CIVIL

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SCHOOL of ENGINEERING
DEPARTMENT OF CIVIL ENGINEERING

Year: 2022-2023 **Semester: 5th** **Section: 5-CIV-1** **Date: 16-12-2022**

Course Title: Ground Improvement Techniques

Course Code: CIV 3029

Type of Session: Peer learning

Instructor in Charge: Dr. Madhavi T.

Instructor for Section: Dr. Madhavi T.

Advanced Learner Instructor for the session: Mr. Vikas

Name of the Module: Introduction to Ground Improvement Techniques
Topics in the Module: Need for ground improvement techniques

Mode of Instruction: Online

Teaching Pedagogy: One Note/PPT MS TEAMS

Peer Learning: Peer learning is an education method that helps students solidify their knowledge by teaching each other. One student tutoring another in a supervised environment can result in better learning and retention

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Attendance:

Section:	5CIV	Date	No. of Classes Attended	No. of Classes Conducted	Attendance (%) till Date	16-Dec-22	22-Dec-22
Semester/ Program:	FIFTH						
Class Strength:							
Course Name:	GROUND IMPROVEMENT TECHNIQUES						
Course Code:	CIV 3029	Hour					
LIST OF ELIGIBLE STUDENTS		Lecture					
S.No.	ID NO	STUDENT NAME					
1	20201CIV0033	MANIKANTA N				P	A
2	20201CIV0034	NAVEEN N				P	P
3	20201CIV0036	VIKAS G				P	P
4	20211LCM0001	MUHAMMAD FAISAL CHAUHAN				P	P
5	20211LCV0002	JEEVAN D				A	P
		No. of Student Present				4	4
		No. of Student Absent				1	1

Total Number of Eligible Students : 5

Total Number of Students Present : 4

Total Number of students Absent 1

Learning Resources:

- **Sample Material as mentioned in the topic.**

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Need for Ground Improvement

Assessment:

- **Type of Assessment-Theory**
- **Assessment Questions.**
- **Sample Answers by students.**

Remarks:

Advanced learner Mr. NAVEEN N explained the need for ground improvement technique

Signature of Instructor:

Signature of Instructor In-Charge :

Dr. Nakul R
HOD-Civil
Dr. Nakul R

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SCHOOL of ENGINEERING
DEPARTMENT OF CIVIL ENGINEERING

Year: 2022-2023 **Semester: 7th** **Section: 7-CIV-1 & 2** **Date: 16-12-2022**

Course Title: Estimating, Costing and Valuation.

Course Code: CIV 215

Type of Session: Peer learning

Instructor in Charge: Dr. Madhavi T.

Instructor for Section: Dr. Madhavi T.

Advanced Learner Instructor for the session: Mr. Bhuvan M

Name of the Module: Introduction to Estimation
Topics in the Module: Units of measurement

Mode of Instruction: Online

Teaching Pedagogy: One Note/PPT MS TEAMS

Peer Learning: Peer learning is an education method that helps students solidify their knowledge by teaching each other. One student tutoring another in a supervised environment can result in better learning and retention.

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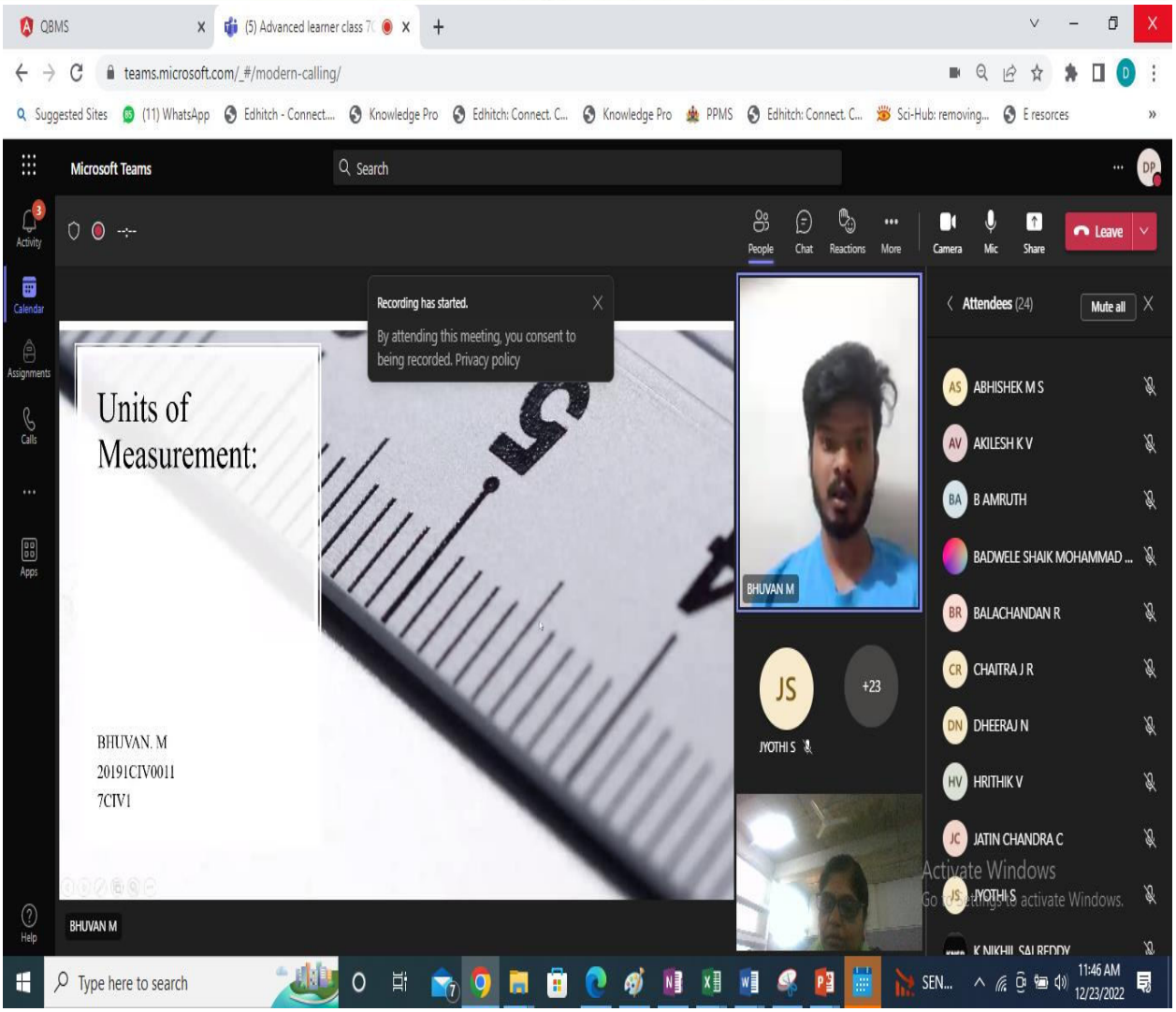

Attendance:

Section:		**7CIV1 & 2**	**Date**	**No. of Classes Attended**	**No. of Classes Conducted**	**Attendance (%) till Date**	**13-Dec-22**	**23-Dec-22**
Semester/ Program:		**Seventh**						
Class Strength:								
Course Name:		**Estimating, Costing and Valuation**						
Course Code:		**CIV215**	**Hour**					
LIST OF ELIGIBLE STUDENTS			**Lecture**					
S.No.	**ID NO**	**STUDENT NAME**						

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1	20191CIV0003	ABHISHEK B					P	A
2	20191CIV0005	ANUSHA C V					P	P
3	20191CIV0007	BADWELE SHAIK MOHAMMAD SHADIL					P	P
4	20191CIV0009	BHARGAVA R N					P	P
5	20191CIV0010	BHAVANI H G					A	P
6	20191CIV0011	BHUVAN M					P	P
7	20191CIV0012	CHAITRA J R					P	P
8	20191CIV0013	CHARAN TEJA D B					P	P
9	20191CIV0014	CHETHAN S					A	A
10	20191CIV0015	CHINNA MALLELA MANIDEEP					P	P
11	20191CIV0017	DEVENDAR V					P	P
12	20191CIV0018	DHEERAJ N					A	A
13	20191CIV0021	GAGAN B V					P	P
14	20191CIV0024	HARISH V					P	P
15	20191CIV0025	HARSHITH S					A	P
16	20191CIV0026	HARSHITHA M R					P	P
17	20191CIV0027	HRITHIK V					P	P
18	20191CIV0028	JATIN CHANDRA C					P	P
19	20191CIV0029	JYOTHI S					P	P
20	20191CIV0030	K NIKHIL SAI REDDY					P	P
21	20191CIV0031	KATTUBADI BHANU TASLIMA NAZRIN					P	P
22	20191CIV0032	KMG GOVARDHAN					P	P
23	20191CIV0035	LEELA KRISHNA R					P	A
24	20191CIV0036	MAMATA BIRADAR					P	P
25	20191CIV0037	MANDLI SAINATH REDDY					P	P
26	20191CIV0038	MANU PRASAD KS					P	P
27	20191CIV0039	MD TAJ					P	P
28	20191CIV0040	MOHITH J					P	P
29	20191CIV0041	NAVEEN KUMAR G					P	P
30	20191CIV0043	NAVEETH VARMA R K					P	A
31	20191CIV0087	TARUN N					P	P
32	20191CIV0091	BALACHANDAN R					P	P
33	20191CIV9004	HARISH R N					A	P
34	20191CIV9008	MOHAMMED MUHIBULLA S					A	P

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35	20191CIV9010	M V UDAY RAJ					A	P
36	20191CIV9012	SURAJ R					P	P
37	20201LCV0004	ABHISHEK M S					P	P
38	20201LCV0006	SATHYA NARAYANA Y N					P	P
39	20201LCV0008	SYED SUFIYAN AHMED					P	P
40	20201LCV0010	VISHWAMBHAR V S L					P	P
41	20201LCV0012	AKILESH K V					P	P
42	20191LCV0024	B AMRUTH					P	P
43	20191CIV0046	PAMISETTY CHETAN					P	P
44	20191CIV0048	PETNIKOTI SURESH					P	P
45	20191CIV0049	PRAJWAL D P					P	A
46	20191CIV0050	PRASHAN CHOUHAN					P	A
47	20191CIV0052	PRASHANTH M					P	A
48	20191CIV0053	R PRERANA					P	P
49	20191CIV0054	RAHUL M					P	P
50	20191CIV0055	RAKSHA JADHAV					P	P
51	20191CIV0056	RAKSHITH K R					A	P
52	20191CIV0057	RAKSHITH KUMAR R					P	P
53	20191CIV0060	SAIBHARATH R					P	P
54	20191CIV0062	SHABARINATH S					P	A
55	20191CIV0064	SHARATH S					P	P
56	20191CIV0066	SHASHI KUMAR S					P	P
57	20191CIV0067	SHRAVANI B L					P	P
58	20191CIV0070	SYED RAYAN MADNI					P	P
59	20191CIV0072	TEJAS S					P	P
60	20191CIV0074	ULLAS K S					A	P
61	20191CIV0075	UMAR					P	P
62	20191CIV0076	VARUN P					P	P
63	20191CIV0077	VENKATESH G					P	P
64	20191CIV0079	VIJAY REDDY					P	P
65	20191CIV0081	YASHAS S					P	P
66	20191CIV0090	JYOTIKA					P	P
67	20191CIV0092	RAVINDRA KIRAN					P	A
68	20191CIV9006	MOHAMMED FAIZAN AHMED					P	P
69	20191CIV9011	KAMANURU VENKATA SIVARAMI REDDY					P	P

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PRESIDENCY UNIVERSITY Registrar BANGALORE

70	20191CIV9013	NANABALA BALAJI BHANUPRAKASH					P	P
71	20201LCV0002	VEERAPU NITHYA					P	P
72	20201LCV0003	SRI VIDYA KATTIMANI					P	P
73	20201LCV0005	SANDEEP					P	P
74	20201LCV0009	VINUTH KUMAR M					P	P
75	20201LCV0011	SANTOSH V					A	P
76	20201LCV0013	ADARSH G KULAKARNI					P	P
77	20201LCV0014	FAIZAN AHMED SHARIFF					P	P
		No. of Student Present					67	67
		No. of Student Absent					10	10

Total Number of Eligible Students : 77

Total Number of Students Present : 67

Total Number of students Absent 10

Learning Resources:

- **Sample Material as mentioned in the topic.**

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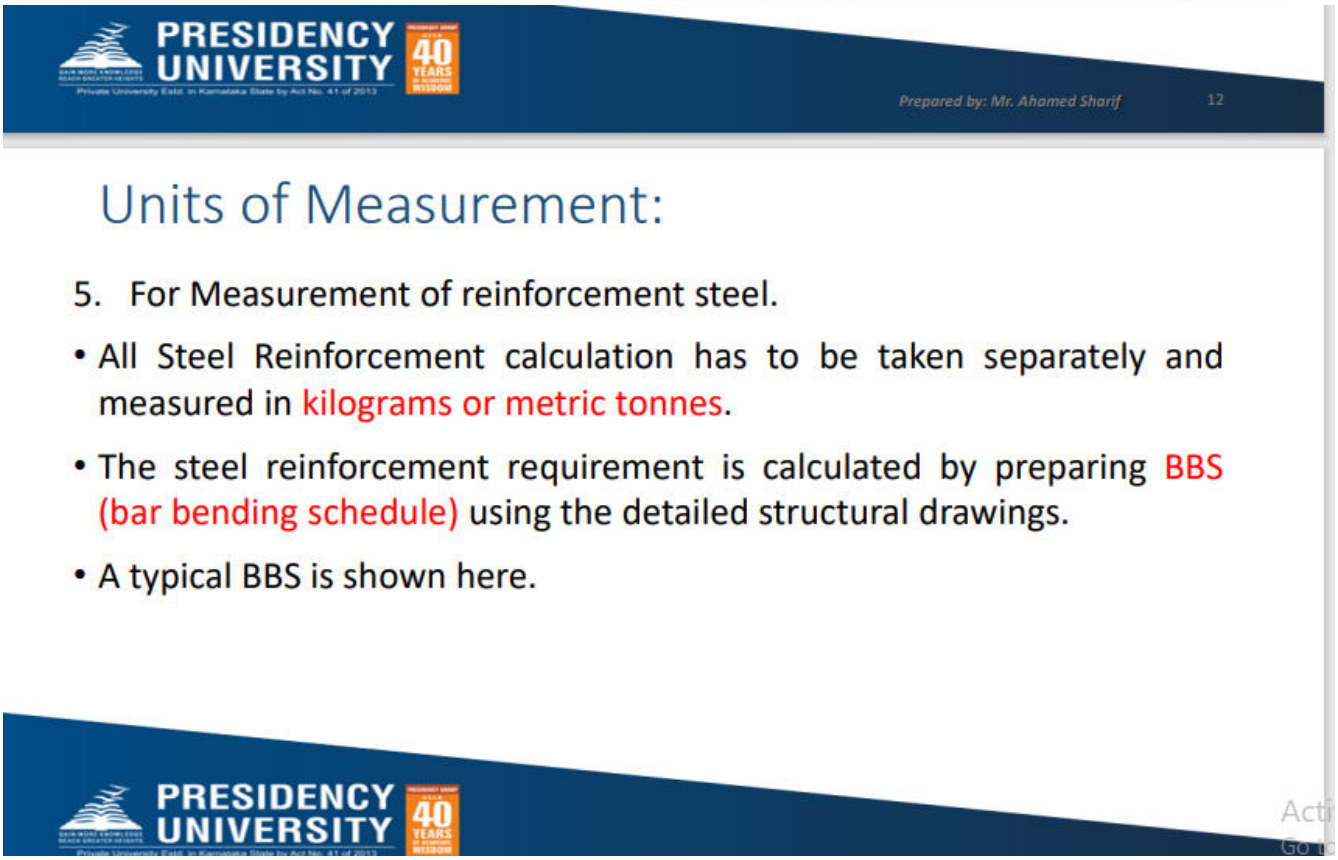
PRESIDENCY UNIVERSITY Registrar BANGALORE

- 

Assessment:

- **Type of Assessment-Numerical**
- **Assessment Questions.**
- **Sample Answers by students.**

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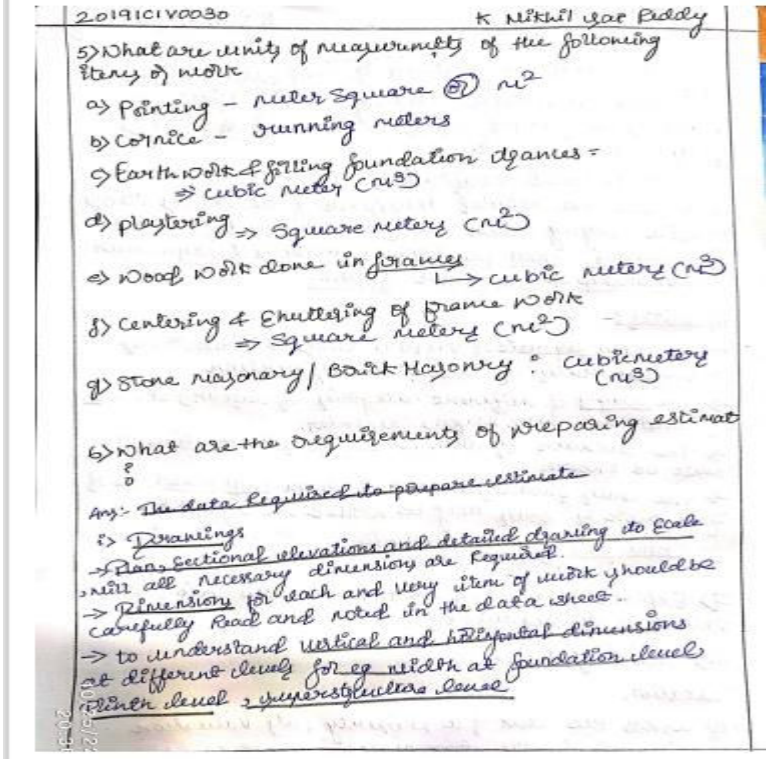

20191CIV0030 K Nikhil Yadav Reddy

5) What are unit of measurements of the following items of work

a) Painting - meter Square (or) m^2
b) Cornice - running meters
c) Earth work in filling foundation trenches = cubic meter (m^3)
d) plastering => Square meters (m^2)
e) Roof work done in frames → cubic meters (m^3)
f) Centering & Shuttering of frame work => Square meters (m^2)
g) Stone masonary / Brick Masonry : cubic meters (m^3)

6) What are the requirements of preparing estimate

Ans: ~~The data required to prepare estimate~~
i) Drawings
→ Plans, Sectional elevations and detailed drawing to scale will all necessary dimensions are required.
→ Dimensions for each and every item of work should be carefully Read and noted in the data sheet.
→ to understand vertical and horizontal dimensions at different levels for eg width at foundation level, plinth level, superstructures level

Remarks:

Advanced learner Mr. Bhuvan M explained the concept of units of measurement to the slow learners who attended the session.

Signature of Instructor:

Signature of Instructor In-Charge :

Dr. Nakul .R
HOD-Civil
Dr. Nakul R

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PRESIDENCY UNIVERSITY Registrar BANGALORE

SCHOOL of ENGINEERING
DEPARTMENT OF CIVIL ENGINEERING

Year: 2022-2023 **Semester: 5th** **Section: 5-CIV-1** **Date: 09-12-2022**

Course Title: Advanced Surveying

Course Code: CIV3019

Type of Session: Peer learning/Remedial Classes

Instructor in Charge: Mr. Bhavan Kumar

Instructor for Section: Mr Bhavan Kumar

Advanced Learner Instructor for the session: B P JANAVI (20201CIV0032)

Name of the Module: Introduction to Field Astronomy.

Topics in the Module: Earth, celestial sphere, earth and celestial coordinate systems, spherical triangle, astronomical triangle, Napier's rule and related Numerical.

Mode of Instruction: Offline

Teaching Pedagogy: Power Point Presentation

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PRESIDENCY UNIVERSITY Registrar BANGALORE

Attendance:

Sl. No.	Student ID No	Name	Category of Student	Attendance
1	20201CIV0015	MANJUNATHA K	Slow	P
2	20201CIV0037	SHAIK ABDUL MUSAVEER	Slow	P
3	20201CIV0038	MANJUNATH REDDY	Slow	P
4	20201CIV0040	SAI GANESH BALLARY	Slow	P

Total Number of Eligible Students as Slow Learner: 04

Total Number of Students Present : 04

Time: 2:50PM to 04:45PM

Learning Resources:

- **Sample Material as mentioned in the topic.**

Remarks:

Advanced learner Ms. B P JANAVI explained the concept of Earth, celestial sphere, earth and celestial coordinate systems, spherical triangle, astronomical triangle, Napier's rule and related Numerical to the Slow learners and Average learners who attended the session.

REGISTRAR

PRESIDENCY UNIVERSITY Registrar BANGALORE

Year: 2022-2023 **Semester: 5th** **Section: 5-CIV-1** **Date: 20-12-2022**

Course Title: Advanced surveying

Course Code: CIV3019

Type of Session: Peer learning/Remedial Classes

Instructor in Charge: Mr. Bhavan Kumar

Instructor for Section: Mr Bhavan Kumar

Advanced Learner Instructor for the session: VAISHANVI N RAJ (20201CIV0045)

Name of the Module: Aerial Photogrammetry and Total Station.

Topics in the Module: Introduction, Uses, Aerial photographs, Definitions, Scale of vertical and tilted photograph.

Mode of Instruction: Offline

Teaching Pedagogy: Power Point Presentation

REGISTRAR
PRESIDENCY UNIVERSITY Registrar BANGALORE

Attendance:

Sl. No.	Student ID No	Name	Category of Student	Attendance
1	20201CIV0015	MANJUNATHA K	Slow	P
2	20201CIV0037	SHAIK ABDUL MUSAVEER	Slow	P
3	20201CIV0038	MANJUNATH REDDY	Slow	P
4	20201CIV0040	SAI GANESH BALLARY	Slow	P

Total Number of Eligible Students as Slow Learner: 04
Total Number of Students Present : 04
Time: 2:50PM to 04:45PM
Learning Resources:

- **Sample Material as mentioned in the topic.**

REGISTRAR
PRESIDENCY UNIVERSITY Registrar BANGALORE

Remarks:

Advanced learner VAISHANVI N RAJ explained the concept of Introduction, Uses, Aerial photographs, Definitions, Scale of vertical and tilted photograph to the Slow learners and Average learners who attended the session.

Signature of Instructor:

Signature of Instructor In-Charge :

Dr. Nakul .R
HOD-Civil
Dr. Nakul R

HOD - CIV

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PRESIDENCY UNIVERSITY Registrar BANGALORE

SCHOOL of ENGINEERING
DEPARTMENT OF CIVIL ENGINEERING

Year: 2022-2023 **Semester: 3rd** **Section: 3-CIV-01** **Date: 27-12-2022**

Course Title: Building Materials & Concrete Technology

Course Code: CIV 1006

Instructor in Charge: Mr. Dayalan J

Name of the Module: Hardened Concrete & Mix Design

Topics in the Module: Properties of Hardened Concrete & Mix Design Calculations

Mode of Instruction: Offline (UG04)

Peer Learning: Peer learning is an education method that helps students solidify their knowledge by teaching each other. One student tutoring another in a supervised environment can result in better learning and retention.

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Teaching Pedagogy: Power Point Presentation, Group Discussion

Learning Resources:

- **Sample Material as mentioned in the topic.**

Ex.3 : Design a concrete mix of M35 grade

- Grade designation – M35
- Type of Cement – OPC grade confirming to IS12269 -1987
- Maximum nominal size of aggregate – 20mm
- Minimum cement content – 290 kg/m^3
- Maximum water cement ratio – 0.55
- Workability – 125mm (slump)
- Exposure condition - moderate for RCC
- Method of concrete placing – pumping
- Degree of supervision – good
- Maximum cement content – 450 kg/m^3
- Chemical admixture type – super plasticizers (capable of reducing water content upto 25% max.)

Signature of Instructor In-Charge :

Dr. Nakul .R
HOD-Civil
Dr. Nakul R

REGISTRAR
PRESIDENCY UNIVERSITY Registrar BANGALORE

SCHOOL OF ENGINEERING
DEPARTMENT OF CIVIL ENGINEERING

Year: 2022-2022 **Semester: 5th** **Section: 5 CIV** **Date: 19-12-2022**

Course Title: Environmental Pollution and Control

Course Code: CIV 2027

Type of Session: Peer learning

Instructor in Charge: Dr. Venkatesha Raju K

Advanced Learner Instructor for the session: USHA S (20201CIV0010) &

SAYAM BHARAMRAJ DURGE (20201CIV0022)

Name of the Module: Module 1

Topics in the Module: Water Treatment **-**Primary, Secondary and Tertiary water and waste water Treatment

Mode of Instruction: Offline (UG03)

Teaching Pedagogy: Power Point Presentation, Group Discussion

Peer Learning: Peer learning is an education method that helps students solidify their knowledge by teaching each other. One student tutoring another in a supervised environment can result in better learning and retention.

REGISTRAR

PRESIDENCY UNIVERSITY Registrar BANGALORE

Sl. No.	Student ID No	Name	Category of Student	Attendance	Date & Time
1	20201CIV0017	KISHORE S	Slow	P	19/12/2022 3:00 PM-4:45 PM
2	20201CIV0026	GOWTHAM PATEL P	Slow	P	
3	20201CIV0029	PRAVEEN V PATIL	Slow	P	

Total Number of Eligible Students as Slow Learner: 3

Total Number of Students Present : 3

Learning Resources: Sample Material as mentioned in the topic.

Remarks:

Advanced learner Ms. Usha explained the concept of activated sludge process to the slow learners and average learners who attended the session.

REGISTRAR

PRESIDENCY UNIVERSITY Registrar BANGALORE

Sl. No.	Student ID No	Name	Category of Student	Attendance	Date & Time
1	20201CIV0017	KISHORE S	Slow	P	19/12/2022 3:00 PM-4:45 PM
2	20201CIV0026	GOWTHAM PATEL P	Slow	P	
3	20201CIV0029	PRAVEEN V PATIL	Slow	P	

Total Number of Eligible Students as Slow Learner: 3

Total Number of Students Present : 3

Learning Resources: Sample Material as mentioned in the topic.

Remarks: Advanced learner Mr. Sayam Bharamraj Durge explained the concept of activated sludge process to the slow learners and average learners who attended the session.

Dr. Venkatesha Raju K
Course Instructor-In Charge

Dr. Nakul R
HOD-Civil
Dr. Nakul R

REGISTRAR
PRESIDENCY UNIVERSITY Registrar BANGALORE

SCHOOL of ENGINEERING
DEPARTMENT OF CIVIL ENGINEERING

Year: 2022-2023 **Semester: 6th** **Section: 6-CIV-1** **Date: 17-05-2023**

Course Title: Wastewater treatment and Disposal systems.

Course Code: CIV3035

Type of Session: Peer learning/Remedial class

Instructor in Charge: Mr. Bhavan Kumar

Instructor for Section: Mr Bhavan Kumar

Advanced Learner Instructor for the session: USHA S (20201CIV0010)

Name of the Module: Disposing of Sewage Effluents

Topics in the Module: Septic tank, Drain field and Soak pit

Mode of Instruction: Offline

Teaching Pedagogy: Power Point Presentation

REGISTRAR
PRESIDENCY UNIVERSITY Registrar BANGALORE

Attendance:

Sl. No.	Student ID No	Name	Category of Student	Attendance
1	20201CIV0019	PRAJWAL K M	Slow	P
2	20201CIV0020	A V AJAY	Slow	P
3	20201CIV0026	GOWTHAM PATEL P	Slow	P
4	20201CIV0031	SUNKARA JAYAPRAKASH	Slow	P
5	20201CIV0037	SHAIK ABDUL MUSAVEER	Slow	P
6	20201CIV0039	JASPREET SINGH	Slow	P

Total Number of Eligible Students as Slow Learner: 06

Total Number of Students Present : 06

Learning Resources:

- **Sample Material as mentioned in the topic.**

Remarks:

Advanced learner Ms Usha explained the concept of Septic tank, Drain field and Soak pit to the Slow learners and Average learners who attended the session.

REGISTRAR

PRESIDENCY UNIVERSITY Registrar BANGALORE

Year: 2022-2023 **Semester: 6th** **Section: 6-CIV-1** **Date: 19-05-2023**

Course Title: Wastewater treatment and Disposal systems.

Course Code: CIV3035

Type of Session: Peer learning/Remedial Class

Instructor in Charge: Mr. Bhavan Kumar

Instructor for Section: Mr Bhavan Kumar

Advanced Learner Instructor for the session: MANIKANTA N (20201CIV0033)

Name of the Module: Estimation of the Design Sewage Discharge and Waste water characterization

Topics in the Module: Waste water characteristics: sampling, physical, chemical and biological characteristics.

Mode of Instruction: Offline

Teaching Pedagogy: Power Point Presentation

REGISTRAR
PRESIDENCY UNIVERSITY Registrar BANGALORE

Attendance:

Sl. No.	Student ID No	Name	Category of Student	Attendance
1	20201CIV0019	PRAJWAL K M	Slow	P
2	20201CIV0020	A V AJAY	Slow	P
3	20201CIV0026	GOWTHAM PATEL P	Slow	P
4	20201CIV0031	SUNKARA JAYAPRAKASH	Slow	P
5	20201CIV0037	SHAIK ABDUL MUSAVEER	Slow	P
6	20201CIV0039	JASPREET SINGH	Slow	P

Total Number of Eligible Students as Slow Learner: 06
Total Number of Students Present : 06

Learning Resources:

- **Wastewater sample tested for various parameters as mentioned in the topic.**

Remarks:

Advanced learner Mr. Manikanta explained the concept of Waste water characteristics: sampling, physical, chemical and biological characteristics to the Slow learners and Average learners who attended the session.

REGISTRAR
PRESIDENCY UNIVERSITY Registrar BANGALORE

Year: 2022-2023 **Semester: 6th** **Section: 6-CIV-1** **Date: 31-05-2023**

Course Title: Wastewater treatment and Disposal systems.

Course Code: CIV3035

Type of Session: Peer learning/Remedial Class

Instructor in Charge: Mr. Bhavan Kumar

Instructor for Section: Mr Bhavan Kumar

Advanced Learner Instructor for the session: B P JANAVI (20201CIV0032)

Name of the Module: Estimation of the Design Sewage Discharge and Waste water characterization

Topics in the Module: Necessity for sanitation, Estimating of dry weather flow and wet weather flow, factors affecting dry weather flow.

Mode of Instruction: Offline

Teaching Pedagogy: Power Point Presentation

REGISTRAR
PRESIDENCY UNIVERSITY Registrar BANGALORE

Attendance:

Sl. No.	Student ID No	Name	Category of Student	Attendance
1	20201CIV0019	PRAJWAL K M	Slow	P
2	20201CIV0020	A V AJAY	Slow	P
3	20201CIV0026	GOWTHAM PATEL P	Slow	P
4	20201CIV0031	SUNKARA JAYAPRAKASH	Slow	P
5	20201CIV0037	SHAIK ABDUL MUSAVEER	Slow	P
6	20201CIV0039	JASPREET SINGH	Slow	P

Total Number of Eligible Students as Slow Learner: 06
Total Number of Students Present : 06

Learning Resources:

- **Sample Material as mentioned in the topic.**

Remarks:

Advanced learner Ms. B P JANAVI explained the concept of Necessity for sanitation, Estimating of dry weather flow, wet weather flow and factors affecting dry weather flow to the Slow learners and Average learners who attended the session.

Signature of Instructor:

Signature of Instructor In-Charge :

REGISTRAR
PRESIDENCY UNIVERSITY Registrar BANGALORE

Dr. Nakul .R
HOD-Civil
Dr. Nakul R

HOD - CIV

REGISTRAR
PRESIDENCY UNIVERSITY Registrar BANGALORE

SCHOOL of ENGINEERING
DEPARTMENT OF CIVIL ENGINEERING

Year: 2022-2023 **Semester: 2nd** **Section: 2 CIV** **Date: 29-5-2023**

Course Title: Surveying

Course Code: CIV 1005

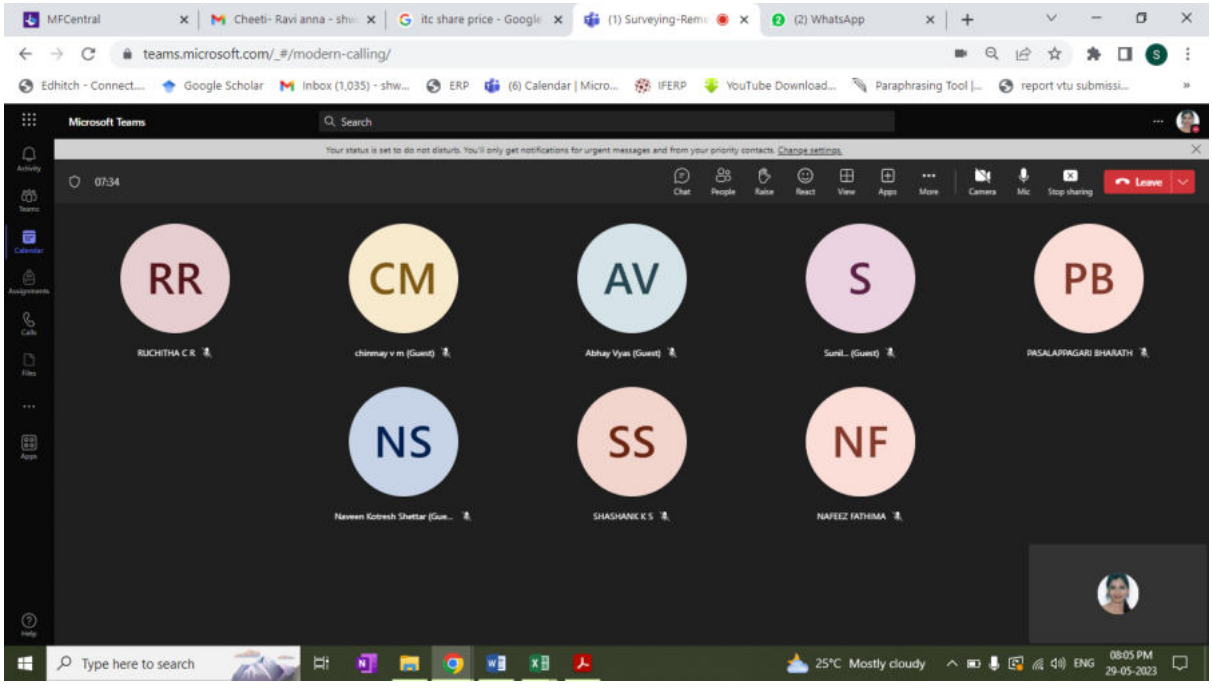
Instructor in Charge: Dr. Shwetha A

Name of the Module: Contouring, Plane table surveying, and Drone surveying

Topics in the Module: Introduction to LIDAR in Remote sensing and applications.

Mode of Instruction: Online

Peer Learning: Peer learning is an education method that helps students solidify their knowledge by teaching each other. One student tutoring another in a supervised environment can result in better learning and retention.



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Teaching Pedagogy: Teams

Learning Resources:

- **Sample Material as mentioned in the topic.**

Dr. Nakul .R
HOD-Civil
Dr. Nakul R

Signature of Instructor In-Charge

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SCHOOL of ENGINEERING
DEPARTMENT OF CIVIL ENGINEERING

Year: 2022-2023 **Semester: 4th** **Section: 4-CIV** **Date: 18-05-2023**

Course Title: Geotechnical Engineering

Course Code: CIV 2015

Type of Session: Peer learning

Instructor in Charge: Dr. Madhavi T.

Instructor for Section: Dr. Madhavi T.

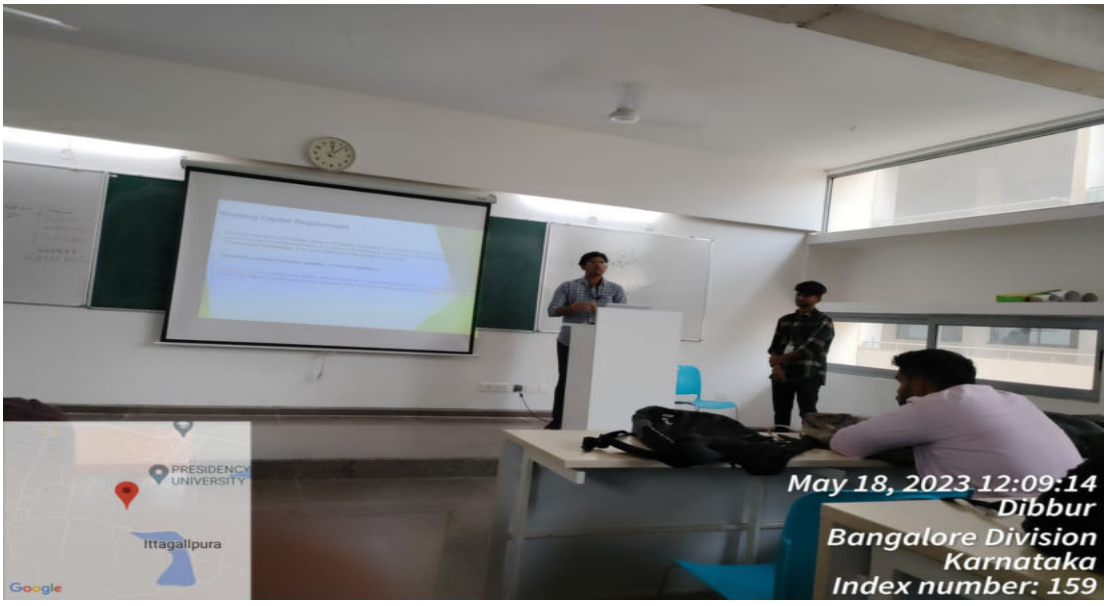
Advanced Learner Instructor for the session: Mr. Abhishek

Name of the Module: Permeability of soil
Topics in the Module: Factors affecting permeability of soil

Mode of Instruction: Offline

Teaching Pedagogy: Class room board/PPT

Peer Learning: Peer learning is an education method that helps students solidify their knowledge by teaching each other. One student tutoring another in a supervised environment can result in better learning and retention.



Peer learning class in RF 02

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Attendance:

Section:	4CIV	Date	No. of Classes Attended	No. of Classes Conducted	Attendance (%) till Date	18-May-23	25-May -23
Semester/ Program:	FOURTH						
Class Strength (remedial) :	4						
Course Name:	Geotechnical engineering						
Course Code:	CIV 2015	Hour					
LIST OF ELIGIBLE STUDENTS		Lecture				1	2
S.No.	ID NO	STUDENT NAME					
1	20211CIS0002	ATTAL THAPA C		5	6	83.33	P	P
2	20211CIV0031	SHAIK MOHAMMED SUFIYAN		5	6	83.33	A	P
3	20211CIV0033	JOANNE ANOUSHKA		5	6	83.33	P	P

Total Number of Eligible Students : 4

Total Number of Students Present : 3

Total Number of students Absent: 1

Learning Resources:

- **Sample Material as mentioned in the topic.**

1. The results of a constant head permeability test on fine sand are as follows; area of the soil specimen 180 cm^2, length of specimen 320 mm, and constant head maintained 460 mm and flow of water through the specimen 200 ml in 5 minutes. Determine the coefficient of permeability.

Assessment:

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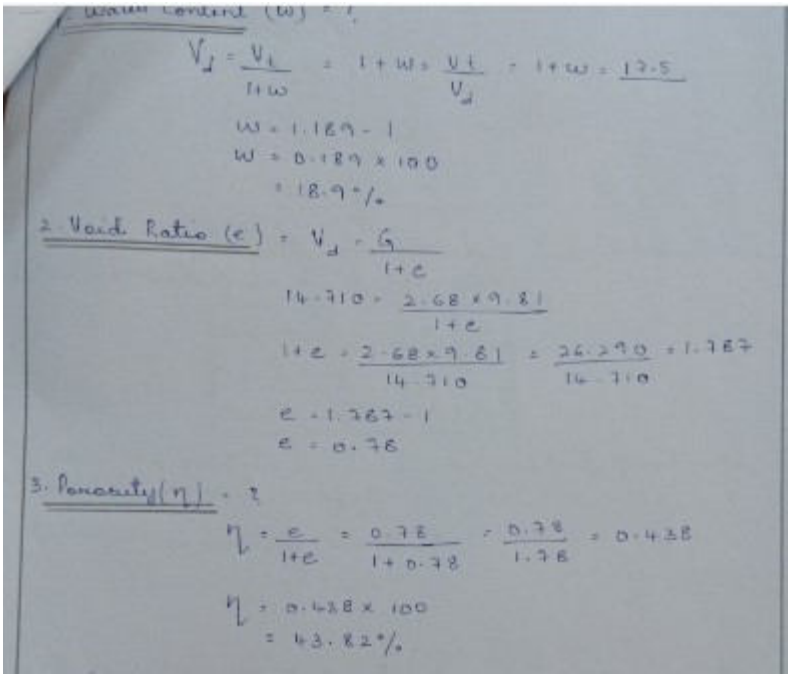
- **Type of Assessment-Numerical**
- **Assessment Questions.**
- **Sample Answers by students.**

1. The results of a constant head permeability test on fine sand are as follows; area of the soil specimen 180 cm^2, length of specimen 320 mm, and constant head maintained 460 mm and flow of water through the specimen 200 ml in 5 minutes. Determine the coefficient of permeability.



Remarks:

Advanced learner Mr. Abhishek explained the concept of permeability to the slow learners who attended the session.

Signature of Instructor:

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PRESIDENCY UNIVERSITY Registrar BANGALORE

Signature of Instructor In-Charge :

Dr. Nakul .R
HOD-Civil
Dr. Nakul R

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PRESIDENCY UNIVERSITY Registrar BANGALORE

SCHOOL of ENGINEERING DEPARTMENT OF CIVIL ENGINEERING

Year: 2022-2023 **Semester: 6th** **Section: 6 CIV 1** **Date: 18/5/2023**

Course Title: Hydrology and Irrigation Systems

Course Code: CIV 2010

Instructor in Charge: Mr Santhosh M B

Name of the Module: Introduction to Irrigation

Topics in the Module: Important Hydroelectricity projects in India

Mode of Instruction: Offline (RF01)

Teaching Pedagogy: Power point presentation, Group Discussion

Note: Peer learning session by advanced learners

Session conducted by: B P Janavi - 20201CIV0032

Peer Learning: Peer learning is an education method that helps students solidify their knowledge by teaching each other. One student tutoring another in a supervised environment can result in better learning and retention.

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Teaching Pedagogy: Power Point Presentation, Group Discussion

Learning Resources:

- **Sample Material as mentioned in the topic.**

Mr Santhosh M B

Course Instructor-In Charge

Dr. Nakul R
HOD-Civil
Dr. Nakul R

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SCHOOL OF ENGINEERING
DEPARTMENT OF CIVIL ENGINEERING

Year: 2022-2023 **Semester: 6th** **Section: 6CIV1** **Date: 05-06-2023**

Course Title: Design of Structural Steel Elements

Course Code: CIV 3004

Instructor in Charge: Mr. Ajay H A

Activity: Slective advanced learners were encouraged to attend a bridge building competition organised by Vidyavardhaka College of Engineering, Mysuru on 8th May, 2023.

Name of the activity: Steel Truss Bridge modelling using Wooden popsicle sticks

Application of Knowledge: Course had offered an understanding of truss bridges constructed using structural steel. Connection of steel elements learnt from the course was applied into the bridge making.

Outcomes:

1. Fair understanding of advantages and behaviour of a steel truss bridge.
2. Hands on experience of building truss bridge scaled down model.
3. Interaction with peers competing from various technical institutions.

Picture showing the model built by students

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Students are appreciated by the event organizers for participating in the event

Learning Resources: Instructions from faculty, Text books

Sig nature of Instructor In-Charge

Dr. Nakul Ramanna
HOD - CIVIL

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SCHOOL of ENGINEERING
DEPARTMENT OF CIVIL ENGINEERING

Year: 2022-2023 **Semester: 6th** **Section: 6-CIV** **Date: 14-05-23**

Course Title: Estimation, Costing and Valuation.

Course Code: CIV 3001

Type of Session: Peer learning

Instructor in Charge: Dr. Madhavi T.

Instructor for Section: Dr. Madhavi T.

Advanced Learner Instructor for the session: Mr. Jeevan D

Name of the Module: Method of estimation
Topics in the Module: Bar bending schedule of beams

Mode of Instruction: Offline

Teaching Pedagogy: Class room board/PPT

Peer Learning: Peer learning is an education method that helps students solidify their knowledge by teaching each other. One student tutoring another in a supervised environment can result in better learning and retention.

Peer learning class

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Attendance:

Section:	6CIV1	Date	No. of Classes Attended	No. of Classes Conducted	Attendance (%) till Date	20-Apr-22	26-Apr-22
Semester/ Program:	Sixth						
Class Strength (remedial) :	7						
Course Name:	Estimation, Costing and Valuation						
Course Code:	CIV3001	Hour					
LIST OF ELIGIBLE STUDENTS		Lecture				1	2
S.No.	IDNO	STUDENT NAME					
1	20201CIV0004	ABRAR PASHA	5	6	83.33	P	p
2	20201CIV0006	ALMAS WAJID	5	6	83.33	A	P
3	20201CIV0008	MEKHALA D	5	6	83.33	P	p
4	20201CIV0015	MANJUNATHA K	6	6	100.00	P	p
5	20201CIV0032	B P JANAVI	5	6	83.33	P	p
6	20211LCM0001	MOHUMMAD FAISAL CHOUHAN	2	6	33.33	A	A
7	20211LCV0002	JEEVAN D	2	6	33.33	A	A
		No. of Student Present				4	5
		No. of Student Absent				3	2

Total Number of Eligible Students : 7

Total Number of Students Present : 5

Total Number of students Absent: 2

Learning Resources:

- **Sample Material as mentioned in the topic.**

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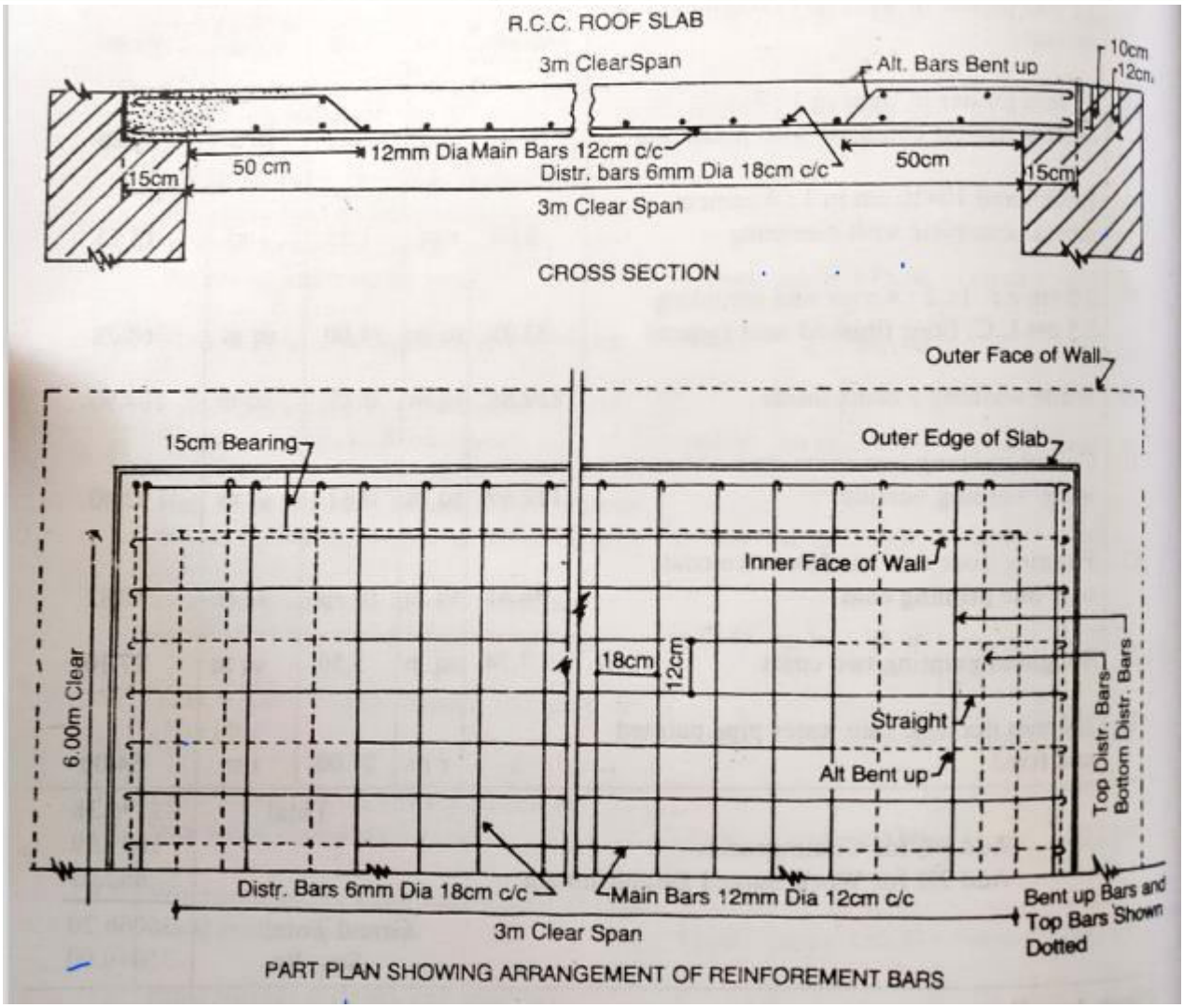

Assessment:

- **Type of Assessment-Numerical**
- **Assessment Questions.**
- **Sample Answers by students.**

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Remarks:

Advanced learner Mr. Jeevan D explained the concept of Bar bending schedule to the slow learners who attended the session.

Signature of Instructor:

Signature of Instructor In-Charge :

Dr. Nakul .R
HOD-Civil
Dr. Nakul R

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PRESIDENCY UNIVERSITY Registrar BANGALORE

SCHOOL OF ENGINEERING
DEPARTMENT OF CIVIL ENGINEERING

Year: 2022-2023 **Semester: 6th** **Section: 6 CIV 01** **Date: 02-06-2023**

Course Title: Construction Quality & Safety

Course Code: CIV 2039

Instructor in Charge: Ms. Divya Nair

Name of the Module: Module 1, 2 &3

Topics in the Module: Construction Quality, Inspection and Testing, Quality control, Quality Assurance Total Quality Management

Mode of Instruction: Offline (QT05)

Peer Learning: Peer learning is an educational method that helps students to enhance / perfect their knowledge by teaching each other. One student tutoring another in a supervised environment can result in better learning and retention.

Peer Learning

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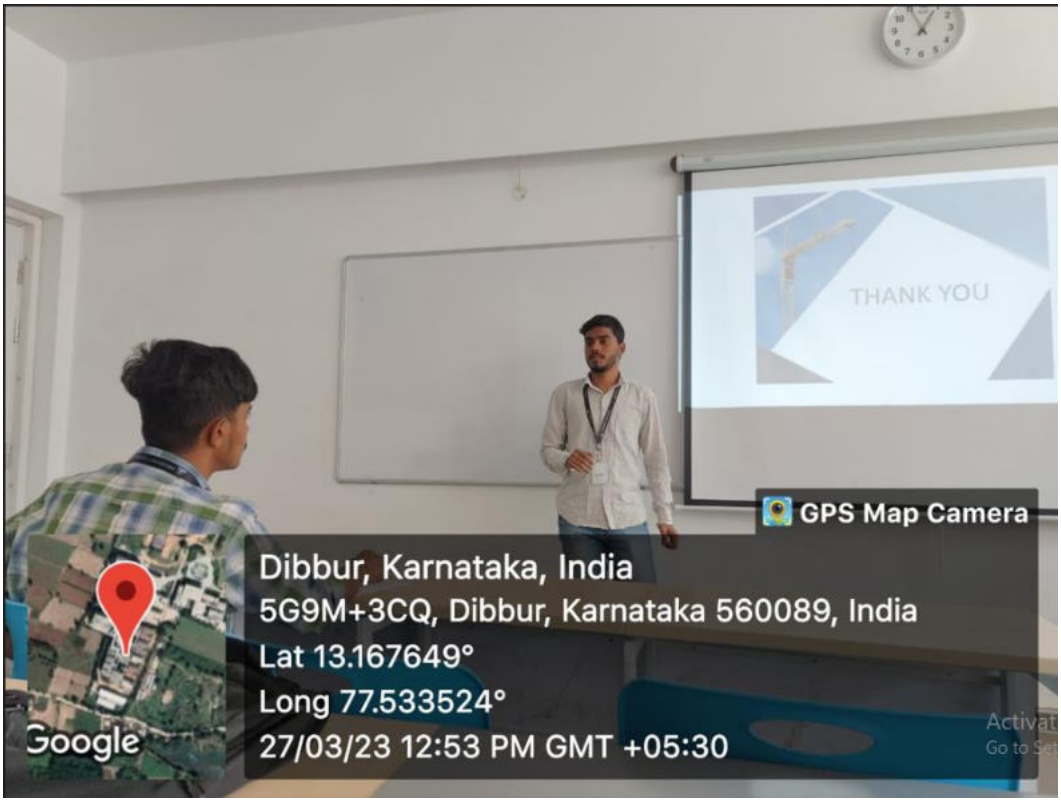

Teaching Pedagogy: Power Point Presentation, Group Discussion

Learning Resources:

- **Sample Material as mentioned in the topic.**

Ms. Divya Nair
Course Instructor-In Charge

Dr. Nakul R
HOD-Civil
Dr. Nakul R

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PRESIDENCY UNIVERSITY Registrar BANGALORE

SCHOOL of ENGINEERING
DEPARTMENT OF CIVIL ENGINEERING

Year: 2022-2023 **Semester: 4th** **Section: 4-CIV-01** **Date: 17-05-2023**

Course Title: E-GOVERNANCE

Course Code: CIV 3044

Instructor in Charge: Mr. Dayalan J

Name of the Module: Implementation of e-Governance

Topics in the Module: E-Government Project Costing, E-Government Project Financing.

Mode of Instruction: Offline (QT05)

Peer Learning: Peer learning is an education method that helps students solidify their knowledge by teaching each other. One student tutoring another in a supervised environment can result in better learning and retention.

Teaching Pedagogy: Power Point Presentation, Group Discussion

Learning Resources:

- **Sample Material as mentioned in the topic.**

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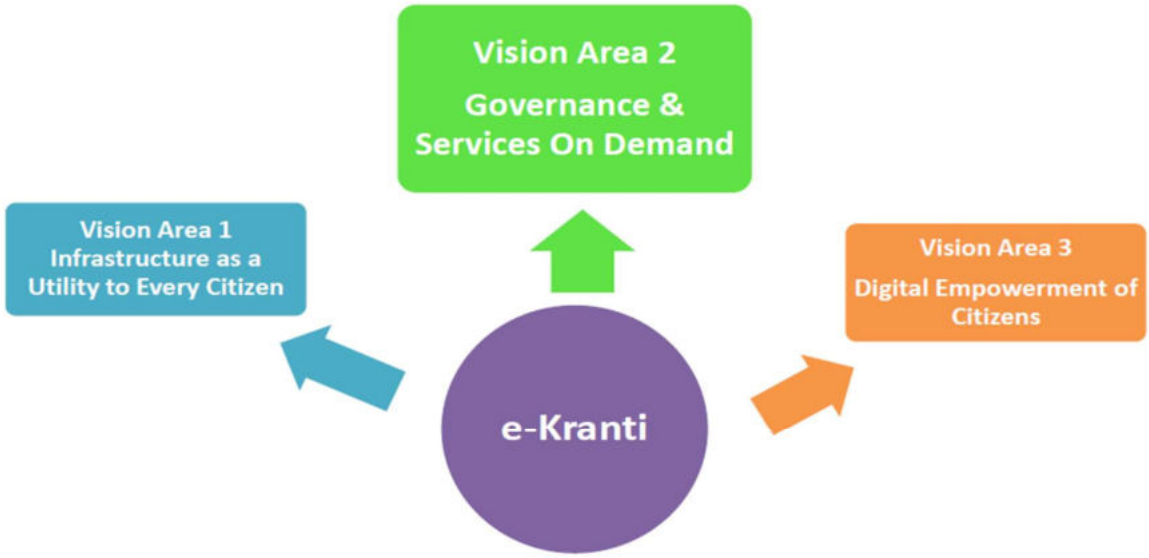
e-Kranti : National eGovernance Plan 2.0

Digital India and e-Kranti



Signature of Instructor In-Charge :

Dr. Nakul .R
HOD-Civil
Dr. Nakul R

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PRESIDENCY UNIVERSITY Registrar BANGALORE

REGISTRAR

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science Campus, Bengaluru – 560 012
Website: www.kscst.org.in || Email: spp@kscst.org.in || Tel: 080-2334 1652,2334 8848/49/40

45th series of Student Project Programme (SPP): 2021-22

List of Student Project Proposals Approved for Sponsorship

110. PRESIDENCY UNIVERSITY, BENGALURU

Sl. No.	PROJECT REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)	SANCTIONED AMOUNT (IN RS.)
809.	45S_MTech_033	AN EXPERIMENTAL STUDY ON RED MUD BASED GEO POLYMER BRICKS AND MORTAR WITH FLY ASH, SILICA FUMES, GGBS AND METAKAOLIN	M.Tech	CIVIL ENGINEERING	Ms. SOWMYASHREE T	Mr. AMITH GOWDA B R Mr. CHARAN KUMAR K C	6,000.00
810.	45S_BE_4413	STUDY ON INCORPORATION OF PLASTIC WASTE IN CLAY BRICKS	B.E.	CIVIL ENGINEERING	Mr. GOPALAKRISHNAN N Dr. NAKUL R	Mr. JAGANNATHA B S Mr. JATIN R Mr. HEMANTHA B J Mr. HARSHA B L	6,000.00

Note:

- *The sanctioned amount will be credited to the college bank account by NEFT.*
- *The evaluation of the above projects will be conducted via online mode during May / June 2022.*
- *Participation in the online evaluation process is mandatory, failing which the project will be considered incomplete and will be withdrawn from the list and sanctioned amount shall be returned to KSCST.*
- *After completion of the projects, a softcopy of the report prepared as per the format prescribed by RESPECTIVE UNIVERSITIES shall be uploaded (PDF format in a single file only) in the GOOGLE FORMS provided on the website.*
- *Any corrections with respect to the names of the guide and students shall be requested at spp@kscst.org.in*

REGISTRAR

PRESIDENCY UNIVERSITY Registrar BANGALORE

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science campus, Bengaluru

Telephone: 080 -23600978, 23341652 || Email: spp@kscst.org.in
Website: www.kscst.iisc.ernet.in/spp.html or www.kscst.org.in/spp.html

FORMAT FOR STUDENT PROJECT PROPOSAL FOR THE 45th SERIES OF STUDENT PROJECT PROGRAMME

(Handwritten proposals will not be accepted, please fill all the details in this MS word file, insert images / diagrams wherever necessary. Convert to pdf file, get it approved from the project guide / head of the department and principal of your institution. Keep ready the scanned pdf file of 1) Declaration and Endorsement 2) details of processing fees made and fill-up the Google Form. Send the softcopy of the project proposal including the three scanned pages and send the proposal (All information in one pdf file) by email to spp@kscst.org.in

https://forms.gle/9wriMyaKhBaGaWpw7

	Name of the College: PRESIDENCY UNIVERSITY
	Project Title: An Experimental study on red mud-based geo polymer bricks and mortar with fly ash, silica fumes, GGBS and metakaolin.
	Branch: CIVIL ENGINEERING
	Theme (as per KSCST poster): Non-Conventional and composite building materials
	Name of project guide: **Name: Mrs. Sowmyashree T-Asst. Prof** **Email id: sowmyashree.t@presidencyuniversity.in** **Contact No.: 8553411257**
	Name of Team Members (Strictly not more than four students in a batch): **Name: AMITH GOWDA B R** **USN No.: 20202BCT0005** **Email id: amithgowda573@gmail.com** **Mobile No: 9513270640**

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PRESIDENCY UNIVERSITY Registrar BANGALORE

Name: CHARAN KUMAR K C
USN No.: 20202BCT0006
Email id: charankc1998@gmail.com
Mobile No.: 9739535926

Team Leader of the Project:

Name: AMITH GOWDA B R
USN No.: 20202BCT0005
Email id: amitgowda573@gmail.com
Mobile No.: 9513270640

Processing Fee Details (Through Online Payment only):
(processing fee of Rs. 1000/-)
Please furnish the payment made details provided in the last page of this proposal.

Note: (The student team shall furnish the details in the Google Form. It is informed to the students to 1) keep ready the project proposal and 2) make the payment made details for processing fees and 3) Enter the details in the Google Form on the same day of payment made to KSCST by NEFT / UPI payment).

Date of commencement of the Project: 16/08/2021

Probable date of completion of the project: 18/05/2022

Scope / Objectives of the project:

1. **To effectively utilize the waste by products such as red mud, fly ash and silica fumes to produce geo polymer bricks and thus help in**

	waste management. 2. To explore the possibility of using red mud and significant amount of silica fumes and fly ash as alternative materials to produce bricks for construction. 3. To check the compatibility of red mud with silica fumes and fly ash in the production of geo polymer bricks. 4. To find the optimum percentage of combinations of red mud, silica fumes and fly ash to obtain geo polymer bricks with good compressive strength, minimum water absorption. 5. To effectively utilize the waste by products such as red mud, metakaolin and GGBS to produce geo polymer mortar and thus help in waste management. 6. To explore the possibility of using red mud and significant amount of metakaolin and GGBS as alternative materials to mortar for construction. 7. To check the compatibility of red mud with metakaolin and GGBS in production of geo polymer mortar. 8. To find the optimum percentage of combination of red mud, metakaolin and GGBS to obtain geo polymer mortar with good compressive strength.
	Methodology: 1. Procurement of red mud, fly ash, silica fumes and other raw materials required. 2. Characterization of raw materials. 3. Conduction of flow test to find optimum fluid content for all mix proportions of red mud, fly ash and silica fumes. 4. Production of geo polymer bricks using different proportions of red mud, fly ash and silica fumes using sodium hydroxide and sodium silicate as alkaline activators. 5. Study of mechanical properties the geo polymer bricks produced such as compressive strength & water absorption. 6. Procurement of red mud, metakaolin , GGBS and other raw materials required. 7. Characterization of raw materials. 8. Conduction of flow test to find optimum fluid content for all mix proportions of red mud, metakaolin and GGBS. 9. Production of geo polymer mortar using different proportions of red mud, metakaolin and GGBS using sodium hydroxide and sodium silicate as alkaline activators. 10. Study of mechanical properties the geo polymer mortar produced such as compressive strength.

	Expected Outcome of the project: **1. A possible solution to the disposal problem of highly alkaline red mud would be found by utilizing it in the production of geo polymer bricks.** **2. Effect of varying percentages of silica fumes and fly ash with red mud on the mechanical properties of the geo polymer bricks would be studied.** **3. The possibility of using red mud with significant amounts of silica fumes and fly ash as alternative materials in production of bricks would be explored.** **4. A possible solution to the disposal problem of highly alkaline red mud would be found by utilizing it in the production of geo polymer mortar.** **5. Effect of varying percentages of metakaolin and GGBS with red mud on the mechanical properties of the geo polymer mortar would be studied.** **6. The possibility of using red mud with significant amounts of metakaolin and GGBS as alternative materials in production of mortar would be explored.**
	Is the project proposed relevant to the Industry / Society or Institution? **Yes / No: Yes** **If yes, please provide details of the Industry / institution and contact details:** **Procurement of Red mud from:** **HINDALCO, BELGAVI UNIT** Nehru Nagar Opposite Village, P.B Road NH4, Yamanapur, Belgaum, Karnataka 590010 **Phone:** 0831 247 2716 (This industry is extending its support to procure red mud produced from its alumina plant and thus reduce the waste disposal problem and adverse effect on environment.)
	Can the product or process developed in the project be taken up for filing a Patent? **Yes / No: No** **Prior Art search done?** **Yes/No: No** **Note:** If your answer is "Yes", you may contact Patent Information Centre of KSCST. For more details, email: pic@kscst.org.in

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PRESIDENCY UNIVERSITY Registrar BANGALORE

Budget details (break-up details should be given):

Note: KSCST will provide nominal grant support for carrying out the project by students if selected by the project selection committee.

Budget	Amount
a) Materials / Consumables (Red mud, Fly ash, Silica fumes, Metakaolin, GGBS Sodium silicate and Sodium hydroxide Solution)	2500.00
b) Labor	1000.00
c) Travel (Procurement of Red mud from Belagavi and Fly ash, Silica fumes, Metakaolin and GGBS from near by Supplier)	1500.00
e) Miscellaneous (Brick moulds)	1000.00
Total	6000.00

Any other technical details (Please specify):

SPP Coordinator (Identified by the college):

Note: To be identified by the principal of the institution. The project proposals must be submitted to KSCST through SPP coordinator designated by the Principal.

Name: Dr.(Prof.) Beeran Moidin BM
Email id: registrar@presidencyuniversity.in
Contact No.:080-23093500

Name of the Project Guide: Mrs. Sowmyashree T	**Name of the HOD: Dr. Nakul Ramanna**
Email id: sowmyashree.t@presidencyuniversity.in	**Email id: nakul@presidencyuniversity.in**
Contact No.: 8553411257	**Contact No.: 9632349550**

Head of the Department
CVil Engineering
School of Engineering
PRESIDENCY UNIVERSITY
Rajanukunte, Yelahanka, Bangalore-64

REGISTRAR

PRESIDENCY UNIVERSITY Registrar BANGALORE

DECLARATION

(From Project Students)

(To scan this page and enclose in the project proposal)

We, the project team hereby declare that the details enclosed in the project proposal (Title of the Project An Experimental study on red mud based geo polymer bricks and mortar with fly ash, silica fumes, GGBS and metakaolin, Branch: Civil Engineering, College: Presidency university are true and correct to the best of our knowledge and belief and we undertake to inform KSCST of any changes therein in the project title, students name will be intimated immediately through *project* guide. In case any of the above information is found to be false or untrue or misleading, we are aware that we may be held liable for it. We hereby authorize sharing of the project information with this project proposal with the Karnataka State Council for Science and Technology, Bengaluru.

We are aware that the project team must exhibit / demonstrate the project in the nodal centre and interact regarding project with the experts and to exhibit the project in the State Level Seminar and Exhibition (if selected). If the student team fails to attend the evaluation in nodal centre or fails to attend the State Level Seminar and Exhibition, the supported project amount will be returned to KSCST.

We also hereby, enclose the endorsement form to KSCST, Bengaluru.

Name of the students with USN No.	**Signature with date**
1. AMITH GOWDA B R (20202BCT0005)	13/01/2022.
2. CHARAN KUMAR K C (20202BCT0006)	13/10/2022

(Name & Signature of Project Guide with Seal)
Email id: sowmyashree.t@presidencyuniversity.in
Contact No.: 8553411257
Mrs. SOWMYASHREE.T

13/1/22
(Name & Signature of HOD with Seal)
Email id: nakul@presidencyuniversity.in
Contact No.: 9632349550
Head of the Department
Civil Engineering
School of Engineering
PRESIDENCY UNIVERSITY
Rajanukunte, Yelahanka, Bengaluru -64

REGISTRAR
PRESIDENCY UNIVERSITY Registrar BANGALORE

ENDORSEMENT

(From College, endorsement to be taken in the institution / Department Letter head)

(To scan this page and enclose in the project proposal)

This is to certify that 1) Mr. AMITH GOWDA B R 2) Mr. CHARAN KUMAR K C , are bonafide student(s) of Department of Civil Engineering in the degree program of our institution. If the project proposal submitted by these students under the 45th series of Student Project Programme is selected by KSCST, we will provide the requisite laboratory / Computer / infrastructure support in our college / Institution. Further we also take necessary steps to see that the project team will exhibit / demonstrate their project in the nodal centre and in the State Level Seminar and Exhibition (if selected). If the student team fails to send the completed project report or fails to attend the evaluation in nodal centre or fails to attend the State Level Seminar and Exhibition, the supported project amount will be returned to KSCST.

(Name & Signature of Project Guide with Seal)	**(Signature of HOD with Seal)**	**(Signature of the Principal with Seal)**
Mrs. Sowmyashree T-Asst. Prof		
Email id:	**Email id:**	**Email id:**
sowmyashree.t@presidencyuniversity.in	**nakul@presidencyuniversity.in**	**registrar@presidencyuniversity.in**
Contact No.: 8553411257	**Contact No.:9632349550**	**Contact No.:080-23093500**

Head of the Department
Civil Engineering
School of Engineering
PRESIDENCY UNIVERSITY
Rajanukunte, Yelahanka, Bengaluru

PRESIDENCY UNIVERSITY Registrar BANGALORE

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PRESIDENCY UNIVERSITY Registrar BANGALORE

DETAILS OF PROCESSING FEES MADE THROUGH NEFT / UPI PAYMENT

(**Note:** Include this page in the softcopy of the student project proposal. The student team shall furnish the details in the Google Form. It is informed to the students to 1) keep ready the softcopy of the project proposal and other documents and 2) Furnish the payment made details as processing fees and 3) update the details in the Google Form on the same day of payment made to KSCST by NEFT / UPI payment).

1. TITLE OF THE PROJECT	:	An Experimental study on red mud-based geo polymer bricks and mortar with fly ash, silica fumes, GGBS and metakaolin.
2. NAME OF THE TEAM LEADER	:	AMITH GOWDA B R
3. EMAIL ID	:	amithgowda573@gmail.com
4. CONTACT MOBILE NO.	:	9513270640

PAYMENT MADE DETAILS

5. BANK REF. NO. / UTR NO. / UPI No. (12 digits)	:	201370480484
6. TRANSACTION ID	:	T2201131528137171552634
7. NAME OF THE SENDER / ACCOUNT HOLDER and CONTACT NUMBER	:	AMITH GOWDA B R 9513270640
8. NAME OF THE BANK	:	STATE BANK OF INDIA
9. PROCESSING FEES	:	Rs. 1000/-
10. DATE OF PAYMENT MADE	:	13/01/2022
11. TIME	:	3:28 PM
12. MODE OF PAYMENT MADE (NEFT / UPI, PLEASE SPECIFY)	:	PHONE PE (UPI)

AMITH GOWDA BR.
Amithgowda
(Name & Signature of the team leader)

Dr Sujashree.T
SOUMYASHREE.T
(Name & Signature of Project Guide or HOD with Seal)

REGISTRAR
PRESIDENCY UNIVERSITY BANGALORE Registrar

KSCST

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science campus, Bengaluru

Telephone: 080 -23600978, 23341652 || Email: spp@kscst.org.in
Website: www.kscst.iisc.ernet.in/spp.html or www.kscst.org.in/spp.html

FORMAT FOR STUDENT PROJECT PROPOSAL FOR THE 45th SERIES OF STUDENT PROJECT PROGRAMME

(Handwritten proposals will not be accepted, please fill all the details in this MS word file, insert images / diagrams wherever necessary. Convert to pdf file, get it approved from the project guide / head of the department and principal of your institution. Keep ready the scanned pdf file of 1) Declaration and Endorsement 2) details of processing fees made and fill-up the Google Form. Send the softcopy of the project proposal including the three scanned pages and send the proposal (All information in one pdf file) by email to spp@kscst.org.in

https://forms.gle/9wriMyaKhBaGaWpw7

	Name of the College: PRESIDENCY UNIVERSITY
	Project Title: An Experimental study on red mud based geo polymer bricks and paver blocks with fly ash, GGBS and metakaolin.
	Branch: CIVIL ENGINEERING
	Theme (as per KSCST poster): Non-Conventional and composite building materials
	Name(s) of project guide(s): **Name:Mrs. Sowmyashree T-Asst. Prof** **Email id: sowmyashree.t@presidencyuniversity.in** **Contact No.: 8553411257**
	Name of Team Members (Strictly not more than four students in a batch): **Name: VASANTH KUMAR V H** **USN No.: 20202BCT0002** **Email id: vasanth.vh1998@gmail.com** **Mobile No:8296736652**

REGISTRAR

PRESIDENCY UNIVERSITY Registrar BANGALORE

Name: SANJAY T R
USN No.:20202BCT0003
Email id:sanjuviru12@gmail.com
Mobile No.:7019894014

Team Leader of the Project:

Name: SANJAY T R
USN No.:20202BCT0003
Email id:sanjuviru12@gmail.com
Mobile No.:7019894014

Processing Fee Details (Through Online Payment only):
(processing fee of Rs. 1000/-)
Please furnish the payment made details provided in the last page of this proposal.

Note: (The student team shall furnish the details in the Google Form. It is informed to the students to 1) keep ready the project proposal and 2) make the payment made details for processing fees and 3) Enter the details in the Google Form on the same day of payment made to KSCST by NEFT / UPI payment).

Date of commencement of the Project: 16/08/2021

Probable date of completion of the project: 18/05/2022

Scope / Objectives of the project:

1. **To effectively utilize the waste by products such as red mud, metakaolin and GGBS to produce geo polymer bricks and thus help in waste management.**

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	2. To explore the possibility of using red mud and significant amount of GGBS and metakaolin as alternative materials to produce bricks for construction. 3. To check the compatibility of red mud with GGBS and metakaolin in the production of geo polymer bricks. 4. To find the optimum percentage of combinations of red mud, GGBS and metakaolin to obtain geo polymer bricks with good compressive strength, minimum water absorption. 5. To effectively utilize the waste by products such as red mud, fly ash and GGBS to produce geo polymer paver blocks and thus help in waste management. 6. To explore the possibility of using red mud and significant amount of fly ash and GGBS as alternative materials to produce paver blocks for foot paths. 7. To check the compatibility of red mud with fly ash and GGBS in production of geo polymer paver blocks. 8. To find the optimum percentage of combination of red mud ,fly ash and GGBS to obtain geo polymer paver blocks with good compressive strength ,tensile strength ,abrasion resistance and minimum water absorption.
	Methodology: 1. Procurement of red mud, GGBS, metakaolin and other raw materials required. 2. Characterization of raw materials. 3. Conduction of flow test to find optimum fluid content for all mix proportions of red mud, GGBS and metakaolin. 4. Production of geo polymer bricks using different proportions of red mud, GGBS and metakaolin using sodium hydroxide and sodium silicate as alkaline activators. 5. Study of mechanical properties the geo polymer bricks produced such as compressive strength & water absorption. 6. Procurement of red mud, fly ash, GGBS and other raw materials required. 7. Characterization of raw materials. 8. Conduction of flow test to find optimum fluid content for all mix proportions of red mud, fly ash and GGBS. 9. Production of geo polymer paver blocks using different proportions of red mud, fly ash and GGBS using sodium hydroxide and sodium silicate as alkaline activators. 10. Study of mechanical properties the geo polymer paver blocks produced such as compressive strength, tensile strength ,abrasion resistance and minimum water absorption.

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	Expected Outcome of the project: **1. A possible solution to the disposal problem of highly alkaline red mud would be found by utilizing it in the production of geo polymer bricks.** **2. Effect of varying percentages of GGBS and metakaolin with red mud on the mechanical properties of the geo polymer bricks would be studied.** **3. The possibility of using red mud with significant amounts of GGBS and metakaolin as alternative materials in production of bricks would be explored.** **4. A possible solution to the disposal problem of highly alkaline red mud would be found by utilizing it in the production of geo polymer paver blocks.** **5. Effect of varying percentages of fly ash and GGBS with red mud on the mechanical properties of the geo polymer paver blocks would be studied.** **6. The possibility of using red mud with significant amounts of fly ash and GGBS as alternative materials in production of paver blocks would be explored.**
	Is the project proposed relevant to the Industry / Society or Institution? **Yes / No: Yes** **If yes, please provide details of the Industry / institution and contact details:** **Procurement of Red mud from:** **HINDALCO, BELGAVI UNIT** Nehru Nagar Opposite Village, P.B Road NH4, Yamanapur, Belgaum, Karnataka 590010 **Phone:** 0831 247 2716 (This industry is extending its support to procure red mud produced from its alumina plant and thus reduce its disposal problem)
	Can the product or process developed in the project be taken up for filing a Patent? **Yes / No: No**

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Prior Art search done?

Yes/No: No

Note: If your answer is "Yes", you may contact Patent Information Centre of KSCST. For more details, email: pic@kscst.org.in

Budget details (break-up details should be given):

Note: KSCST will provide nominal grant support for carrying out the project by students if selected by the project selection committee.

Budget	Amount
a) Materials / Consumables (Red mud, Fly ash, Metakaolin, GGBS, Sodium silicate and Sodium hydroxide Solution)	2500.00
b) Labor	1000.00
c) Travel (Procurement of Red mud from Belagavi and Fly ash, Metakaolin and GGBS from near by Supplier)	1000.00
e) Miscellaneous (Brick and Paver moulds)	1000.00
Total	5500.00

Any other technical details (Please specify):

SPP Coordinator (Identified by the college):

Note: To be identified by the principal of the institution. The project proposals must be submitted to KSCST through SPP coordinator designated by the Principal.

Name: Dr.(Prof.) Beeran Moidin BM
Email id: registrar@presidencyuniversity.in
Contact No.:080-23093500

Name of the Project Guide: Sowmyashree T
Email id: sowmyashree.t@presidencyuniversity.in
Contact No.: 8553411257

Name of the HOD: Dr. Nakul Ramanna
Email id: nakul@presidencyuniversity.in
Contact No.: 9632349550

REGISTRAR

PRESIDENCY UNIVERSITY Registrar BANGALORE

DECLARATION

(From Project Students)

(To scan this page and enclose in the project proposal)

We, the project team hereby declare that the details enclosed in the project proposal (Title of the Project An Experimental study on red mud based geo polymer bricks and paver blocks with fly ash, GGBS and metakaolin, Branch: Civil Engineering, College: Presidency university are true and correct to the best of our knowledge and belief and we undertake to inform KSCST of any changes therein in the project title, students name will be intimated immediately through project guide. In case any of the above information is found to be false or untrue or misleading, we are aware that we may be held liable for it. We hereby authorize sharing of the project information with this project proposal with the Karnataka State Council for Science and Technology, Bengaluru.

We are aware that the project team must exhibit / demonstrate the project in the nodal centre and interact regarding project with the experts and to exhibit the project in the State Level Seminar and Exhibition (if selected). If the student team fails to attend the evaluation in nodal centre or fails to attend the State Level Seminar and Exhibition, the supported project amount will be returned to KSCST.

We also hereby, enclose the endorsement form to KSCST, Bengaluru.

Name of the students with USN No.	**Signature with date**
1. SANJAY T R (20202BCT0003)	13/01/2022
2. VASANTH KUMAR V H (20202BCT0002)	Vasanth Kumar. 13/01/2022

SOWMYASHREE.T

(Name & Signature of Project Guide with Seal)

Email id: sowmyashree.t@presidencyuniversity.in

Contact No.: 8553411257

13/1/22

(Name & Signature of HOD with Seal)

Email id: nakul@presidencyuniversity.in

Contact No.: 9632349550

Head of the Department
Civil Engineering
School of Engineering
PRESIDENCY UNIVERSITY

REGISTRAR

PRESIDENCY UNIVERSITY Registrar BANGALORE

ENDORSEMENT

(From College, endorsement to be taken in the institution / Department Letter head)

(To scan this page and enclose in the project proposal)

This is to certify that 1) Mr. SANJAY T R 2) Mr. VASANTH KUMAR V H , are bonafide student(s) of Department of Civil Engineering in the degree program of our institution. If the project proposal submitted by these students under the 45th series of Student Project Programme is selected by KSCST, we will provide the requisite laboratory / Computer / infrastructure support in our college / Institution. Further we also take necessary steps to see that the project team will exhibit / demonstrate their project in the nodal centre and in the State Level Seminar and Exhibition (if selected). If the student team fails to send the completed project report or fails to attend the evaluation in nodal centre or fails to attend the State Level Seminar and Exhibition, the supported project amount will be returned to KSCST.

(Name & Signature of Project Guide with Seal)	(Signature of HOD with Seal)	(Signature of the Principal with Seal)
Mrs. Sowmyashree T-Asst. Prof		
Email id:	**Email id:**	**Email id:**
sowmyashree.t@presidencyuniversity.in	nakul@presidencyuniversity.in	registrar@presidencyuniversity.in
Contact No.: 8553411257	**Contact No.:**9632349550	**Contact No.:**080-23093500

Head of the Department
CVil Engineering
School of Engineering
PRESIDENCY UNIVERSITY
Rajanukunte, Yelahanka, Bangalore

PRESIDENCY UNIVERSITY Registrar BANGALORE

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PRESIDENCY UNIVERSITY Registrar BANGALORE

DETAILS OF PROCESSING FEES MADE THROUGH NEFT / UPI PAYMENT

(Note: Include this page in the softcopy of the student project proposal. The student team shall furnish the details in the Google Form. It is informed to the students to 1) keep ready the softcopy of the project proposal and other documents and 2) Furnish the payment made details as processing fees and 3) update the details in the Google Form on the same day of payment made to KSCST by NEFT / UPI payment).

1. TITLE OF THE PROJECT	:	An Experimental study on red mud based geo polymer bricks and paver blocks with fly ash, GGBS and metakaolin.
2. NAME OF THE TEAM LEADER	:	SANJAY T R
3. EMAIL ID	:	sanjuviru12@gmail.com
4. CONTACT MOBILE NO.	:	7019894014

PAYMENT MADE DETAILS

5. BANK REF. NO. / UTR NO. / UPI No. (12 digits)	:	201376058650
6. TRANSACTION ID	:	T2201131456588998334828
7. NAME OF THE SENDER / ACCOUNT HOLDER and CONTACT NUMBER	:	SANJAY T R 7019894014
8. NAME OF THE BANK	:	KARNATAKA BANK
9. PROCESSING FEES	:	Rs. 1000/-
10. DATE OF PAYMENT MADE	:	13/01/2022
11. TIME	:	2:57 PM
12. MODE OF PAYMENT MADE (NEFT / UPI, PLEASE SPECIFY)	:	Phone pe

SANJAY T.R

(Name & Signature of the team leader)

SOWMYASHREE.T

(Name & Signature of Project Guide or HOD with Seal)

REGISTRAR

PRESIDENCY UNIVERSITY Registrar BANGALORE

KSCST

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KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science campus, Bengaluru

Telephone: 080 -23600978, 23341652 || Email: spp@kscst.org.in
Website: www.kscst.iisc.ernet.in/spp.html or www.kscst.org.in/spp.html

FORMAT FOR STUDENT PROJECT PROPOSAL FOR THE 45th SERIES OF STUDENT PROJECT PROGRAMME

1.	**Name of the College: Presidency University**
2.	**Project Title: Effect of copper slag on the strength properties of expansive soil.**
3.	**Branch: Civil Engineering**
4.	**Theme : Theme 1: Composite building material**
5.	**Name of project guide:** **Name: Dr. MADHAVI T** **Email id: madhavit@presidencyuniversity.in** **Contact No.:9964046505**
6.	**Name of Team Members:** **Name: KENCHANAGONDU SHASHI KUMAR** **USN No.:20181CIV0057** **Email id: kshasikumar65@gmail.com** **Mobile No.:6303166344**  **Name: SUDHAKAR REDDY JASWANTH REDDY** **USN No.:20181CIV0130** **Email id: jaswanthjessy99@gmail.com** **Mobile No.:7032197707**  **Name: SYED ROSHAN BABA** **USN No.:20181CIV0137** **Email id: syedroshanbaba910@gmail.com** **Mobile No.:7993469889** 

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PRESIDENCY UNIVERSITY Registrar BANGALORE

7.	Team Leader of the Project: **Name: SANNIDHI V P RAMAKRISHNA** **USN No.:20181CIV0122** **Email id: vamsisannidhi07@gmail.com** **Mobile No.:8309044093** 
8.	Processing Fee Details (Through Online Payment): **The payment made details provided in the last page of this proposal.**
9.	Date of commencement of the Project: **20th MARCH 2022**
10.	Probable date of completion of the project: **30th MAY 2022**
11.	Scope / Objectives of the project: **Scope: Expansive soil is a problematic soil. It cause severe distress to the structures built on them especially during rainy and summer seasons. They undergo swelling during rainy season and shrinkage during summer. Building's crack, sliding of canal lining, heaving of canal beds and rutting of roads are some of the damages to the structures found on expansive soil. Every year million tons of copper slag is produced and dumped as piles. When these wastes are left in open cause lung disease. Various industries are finding sustainable solutions to dispose these wastes. Therefore, this project is intended to utilize an industrial waste material copper slag to stabilize the expansive soil and also to study the feasibility of this material for subgrade strength improvement.** **Objectives of the project:** **1) To change the gradation of the soil by improving the index properties of expansive soil with the addition of copper slag.** **2) To study the mechanism involved in the improvement of index properties of soil.** **3) To study the compaction behavior of expansive soil with copper slag.** **4) To obtain the optimum dosage of copper slag for expansive soil.** **5) To study the feasibility of copper slag stabilized expansive soil for pavement subgrade strength improvement.**
12.	Methodology: **The methodology to conduct various laboratory work for the present research work is briefly described.** **1. Expansive soil will be procured from north Karnataka region and will be pulverized in the ball mill before being used.** **2. Preparation of Dry Soil Sample: The dry samples for various tests will be prepared as per IS: 2720 (Part I) 1983, reaffirmed 1990.** **3. Specific Gravity: Specific gravity of the soil will be found out by**

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	density bottle as per BIS: 2720 (Part-III/sec-1) 1980, (First revision). 4. Grain Size Distribution: Hydrometer will be used for Grain size analysis test according to BIS: 2720 (Part-IV) - 1985, Second revision. Soil sieved through 425-micron sieve and the soil passing through sieve is washed through 75-micron sieve so that silt and clay particles are separated from sand fraction. The oven dried soil passing through 75-micron BIS sieve has been used for Hydrometer analysis to analyze silt and clay fractions in the soil. 5. Atterberg's Limit Test: The Atterberg's limits will be determined by the procedures mentioned in BIS: 2720 (Part V)-1985. 6. Compaction Test: The compaction test will be carried out using standard compaction test apparatus in accordance with IS: 2720 (Part VII) –1965. 7. California Bearing Ratio (CBR) Test: The California Bearing Ratio test will be carried out using the California Bearing Ratio test apparatus in accordance with IS:2727(Part 16):1987.
13.	Expected Outcome of the project: This project makes use of copper slag which is an industrial waste to improve the index, compaction properties and strength properties of the expansive soil. Thus, environmental pollution due to the disposal of copper slag can be minimized and our problem with expansive soil can be reduced. Based on the test results, the feasibility of this industrial waste for subgrade strength improvement can be made.
14.	Is the project proposed relevant to the Industry / Society or Institution? Yes If Yes, please provide details of the Industry / institution and contact details: MYTHRI METALIZING INDIA COMPANY, BANGLORE Call: 9743017800
15.	Can the product or process developed in the project be taken up for filing a Patent? No Prior Art search done? Yes/No: No

16. **Budget details (break-up details should be given):**

Budget	Amount
a) Materials / Consumables (Sodium hexametaphosphate and sodium carbonate)	1000.00
b) Labor (To collect the copper slag, excavate the soil and to transport to the vehicle)	2000.00
c) Travel (To visit the industry and North Bangalore for procurement copper slag and soil sample)	6000.00
e) Miscellaneous (Gloves, waste cloth etc)	1000.00
Total	10000.00

17. **Any other technical details : NIL**

18. **SPP Coordinator (PRESIDENCYUNIVERSITY):**
Name: (Dr. (Prof.) Beeran Moidin BM)
Email id: registrar@presidencyuniversity.in
Contact No.: 080- 23093500

Name of the Project Guide: DR. MADHAVI T
Email id:madhavit@presidencyuniversity.in

Contact No.: 9964046505

Name of the HOD: DR.NAKUL RAMMANA
Email
id:hod civ@presidencyuniversity.in
Contact No.:9632349550

Head of the Department
Civil Engineering
School of Engineering
PRESIDENCY UNIVERSITY
Rajanukunte, Yelahanka, Bangalore

REGISTRAR

PRESIDENCY UNIVERSITY
Registrar
BANGALORE

DECLARATION

(From Project Students)

We, the project team hereby declare that the details enclosed in the project proposal (Title of the Project: Effect of copper slag on the strength parameters of expansive soil, Branch: Civil Engineering ,College: Presidency University) are true and correct to the best of our knowledge and belief and we undertake to inform KSCST of any changes therein in the project title, students name will be intimated immediately through project guide. In case any of the above information is found to be false or untrue or misleading, we are aware that we may be held liable for it. We hereby authorize sharing of the project information with this project proposal with the Karnataka State Council for Science and Technology, Bangaluru.

We are aware that the project team must exhibit / demonstrate the project in the nodal centre and interact regarding project with the experts and to exhibit the project in the State Level Seminar and Exhibition (if selected). If the student team fails to attend the evaluation in nodal centre or fails to attend the State Level Seminar and Exhibition, the supported project amount will be returned to KSCST.

We also hereby, enclose the endorsement form to KSCST, Bengaluru.

Name of the students with USN No.	**Signature with date**
1. SANNIDHI V P RAMAKRISHNA(21081CIV0122)	S. Vanji 12/01/2022
2. KENCHANAGONDU SHASHI KUMAR(20181CIV0057)	K. Shashi kumar 12/01/2022
3. SUDHAKAR REDDY JASWANTH REDDY(20181CIV0130)	S. Jaswanth Reddy 12/01/22
4. SYED ROSHAN BABA(20181CIV0137)	S. Roshan Baba 12/01/2022

(Dr. Madhavi T)

Email id:madhavit@presidencyuniversity.in

Contact No.:9964046505

Head of the Department
Civil Engineering
School of Engineering
PRESIDENCY UNIVERSITY
Rajanukunte, Yelahanka, Bengaluru

(Dr. Nakul R)

Email id:hod_civ@presidencyuniversity.in

Contact No.:9632349550

Head of the Department
Civil Engineering
School of Engineering
PRESIDENCY UNIVERSITY
Rajanukunte, Yelahanka, Bengaluru

ENDORSEMENT

This is to certify that 1) Mr SANNIDHI V P RAMAKRISHNA, 2) Mr KENCHANAGONDU SHASHI KUMAR 3) Mr SUDHAKAR REDDY JASWANTH REDDY 4) Mr SYED ROSHAN BABA are bonafide students of Department of Civil engineering in the degree program of our institution. If the project proposal submitted by these students under the 45th series of Student Project Programme is selected by KSCST, we will provide the requisite laboratory / Computer / infrastructure support in our college / Institution. Further we also take necessary steps to see that the project team will exhibit / demonstrate their project in the nodal centre and in the State Level Seminar and Exhibition (if selected). If the student team fails to send the completed project report or fails to attend the evaluation in nodal centre or fails to attend the State Level Seminar and Exhibition, the supported project amount will be returned to KSCST.

PRESIDENCY UNIVERSITY * Registrar * BANGALORE

REGISTRAR

(Dr. Madhavi T)

Email id:madhavit@presidencyuniversity.in

Contact No.:9964046505

(Dr. Nakul R)

Email id:hod_civ@presidencyuniversity.in

Contact No.:9632349550

Head of the Department
Civil Engineering
School of Engineering
PRESIDENCY UNIVERSITY
Rajanukunte, Yelahanka

(Dr. (Prof.) Beeran Moidin BM)

Emailid: registrar@presidencyuniversity.in

Contact No.: 080- 23093500

PRESIDENCY UNIVERSITY * Registrar * BANGALORE

DETAILS OF PROCESSING FEES MADE THROUGH NEFT / UPI PAYMENT

1. TITLE OF THE PROJECT	:	Effect of copper slag on the strength parameters of expansive soil.
2. NAME OF THE TEAM LEADER	:	SANNIDHI V P RAMAKRISHNA
3. EMAIL ID	:	vamsisannidhi07@gmail.com
4. CONTACT MOBILE NO.	:	8309044093

PAYMENT MADE DETAILS

5. BANK REF. NO. / UTR NO. / UPI No. (12 digits)	:	201247709376
6. TRANSACTION ID	:	CICAgODxxNiDRw
7. NAME OF THE SENDER / ACCOUNT HOLDER and CONTACT NUMBER	:	KRISHNA NAGA SYAMALA SEETHA VISALAKSHI 9513184093
8. NAME OF THE BANK	:	KARUR VYSYA BANK
9. PROCESSING FEES	:	Rs. 1000/-
10. DATE OF PAYMENT MADE	:	12TH January 2022
11. TIME	:	6:59PM
12. MODE OF PAYMENT MADE (NEFT / UPI, PLEASE SPECIFY)	:	UPI(GOOGLE PAY)

SANNIDHI V P RAMAKRISHNA

(Name & Signature of the team leader)

DR.MADHAVI T

(Name & Signature of Project Guide or HOD with Seal)

REGISTRAR

PRESIDENCY UNIVERSITY Registrar BANGALORE

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science campus, Bengaluru

Telephone: 080 -23600978, 23341652 || Email: spp@kscst.org.in
Website: www.kscst.iisc.ernet.in/spp.html or www.kscst.org.in/spp.html

FORMAT FOR STUDENT PROJECT PROPOSAL FOR THE 46th SERIES OF STUDENT PROJECT PROGRAMME

(Handwritten proposals will not be accepted, please fill all the details in this MS word file, insert images / diagrams wherever necessary. Convert to pdf file, get it approved from the project guide / head of the department and principal of your institution. Keep ready the scanned pdf file of 1) Declaration and Endorsement 2) details of processing fees made and fill-up the Google Form. Send the softcopy of the project proposal including the three scanned pages and send the proposal (All information in one pdf file) by email to spp@kscst.org.in

https://forms.gle/pMfzw4iKL7LNAojd8

1.	**Name of the College:** Presidency University
2.	**Project Title:** Alternate treatment technique to Conventional Treatment on Waste Water using Ornamental Plants.
3.	**Branch:** Civil
4.	**Theme (as per KSCST poster):** Newer techniques in treating domestic sewage / industrial effluents
5.	**Name(s) of project guide(s):** 1. **Name:** Dr. Venkatesha Raju K **Email id:** venkatesharaju.k@presidencyuniversity.in **Contact No.:** 9449621635 2. **Name:** Mr. Bhavan kumar M **Email id:** bhavankumar.m@presidencyuniversity.in **Contact No.:**9980839952
6.	**Name of Team Members (Strictly not more than four students in a batch):** *(Type names in Capital Letters as provided in your college)* (Please paste the latest passport size photograph adjacent to your respective names) **Name:** Vijay Prabhakar **USN No.:** 20191CIV0078 **Email id:** 20191CIV0078@presidencyuniversity.in

REGISTRAR

PRESIDENCY UNIVERSITY Registrar BANGALORE

	Mobile No: 8050339363 **Name:** Harish R N **USN No.:** 20191CIV9004 **Email id:** 20191CIV9004@presidencyuniversity.in **Mobile No.:** 9108868118 **Name:** N.B. Bhanu Prakash **USN No.:**20191CIV9013 **Email id:**201810100932@presidencyuniversity.in **Mobile No.:**6301444528 **Name:** T Sai Kiran **USN No.:** 20191CIV0071 **Email id:** 20191CIV0071@presidencyuniversity.in **Mobile No.:** 7019025524
7.	**Team Leader of the Project:** **Name:** Vijay Prabhakar **USN No.:** 20191CIV0078 **Email id:** 20191CIV0078@presidencyuniversity.in **Mobile No.:** 9620818868
8.	**Processing Fee Details (Through Online Payment only):** **(processing fee of Rs. 1000/-)** **Please furnish the payment made details provided in the last page of this proposal.** **Note:** (The student team shall furnish the details in the Google Form. It is informed to the students to 1) keep ready the project proposal and 2) make the payment made details for processing fees and 3) Enter the details in the Google Form on the same day of payment made to KSCST by NEFT / UPI payment).
9.	**Date of commencement of the Project: 01.03.2023**
10.	**Probable date of completion of the project: 30.06.2023**
11.	**Scope / Objectives of the project:** 1. To conduct treatability studies. **2.** To design waste water treatment Unit.

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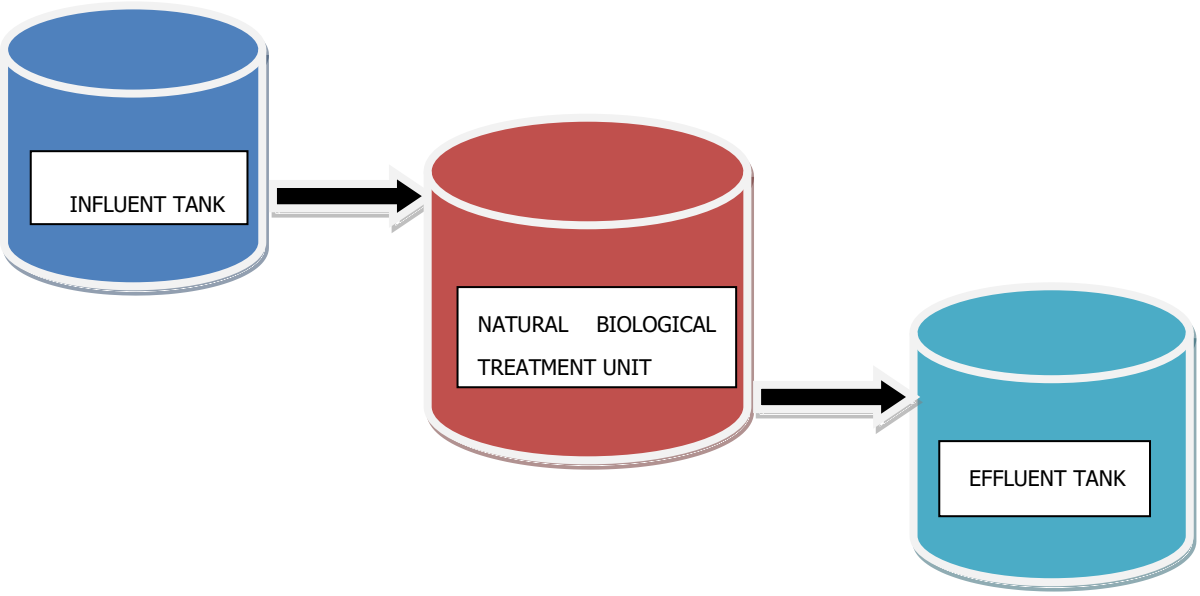
12.	**Methodology: Project methodology is as follows** 1. Collection of ornamental plant seeds/vegetative tubers 2. Designing wastewater treatment unit. 3. Growing the selected plants in treatment unit. 4. Collection of raw sewage. 5. Analysis of influent raw sewage characteristics 6. Application of raw sewage to the treatment unit. 7. Analysis of effluent raw sewage characteristics. 8. Analysis of nutrient and metal concentration in plants. 9. Assessment of curing ability of treated effluent.  **Figure:** Set up of pilot tank –DESIGN OF TREATMENT PLANT Each plant consists of three units namely: 1. Influent tank→ Diameter-20 to 40cm and Height 30 to 45cm with 15 to 25 litres capacity 2. Natural biological treatment unit→ Diameter-30 to 40cm and Height 35 to 45cm with 40 to 50litres Capacity 3. Effluent collecting tank→ Diameter-30 to 40cm and Height 30 to 45cm with 15 to 25 litres capacity 4. Pipes and Valves for connection.

	Note: In case of fabrication work in the project, an engineering drawing with dimensions / detailed design should be attached to the proposal.
13.	**Expected Outcome of the project:** Treatment technology can be applied in lake basin to ensure lake quality and aesthetic.
14.	**Is the project proposed relevant to the Industry / Society or Institution?** **Society** **Yes –** it may help institution to treat their sewage and drain out. Presidency University Itagalpur, Rajankunte, Yelahanka, Bengaluru 560064 (**Note:** Preference will be given to those projects relevant to the industry / institution. Hence be specific in giving detailed information). Is the industry extending support - technology / funds / use the final product, please specify.
15.	**Can the product or process developed in the project be taken up for filing a Patent?** **Yes** **Prior Art search done?** **No** **Note:** If your answer is "Yes", you may contact Patent Information Centre of KSCST. For more details, email: pic@kscst.org.in
16.	**Budget details (break-up details should be given):** Note: KSCST will provide nominal grant support for carrying out the project by students if selected by the project selection committee.

Budget	**Amount**

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PRESIDENCY UNIVERSITY Registrar BANGALORE

a) Materials / Consumables (Please specify)	10000
b) Labor (Describe)	1000
c) Travel (Describe)	1000
e) Miscellaneous (Please specify)	00
Total	12000.00

17. **Any other technical details (Please specify):** NO

18. **SPP Coordinator (Identified by the college):**

Note: To be identified by the principal of the institution. The project proposals must be submitted to KSCST through SPP coordinator designated by the Principal.

Name: Dr. Nakul Ramanna
Email id: hod_civ@presidencyuniversity.in
Contact No.:9632349550

1.Name of the Project Guide: Dr. Venkatesha Raju K
Email id:
venkatesharaju.k@presidencyuniversity.in
Contact No.:9449621635

2.Name of the Project Guide: Mr. Bhavan kumar M
Email id:bhavankumar.m@presidencyuniversity.in
Contact No.:9980839952

Name of the HOD: Dr. Nakul Ramanna

Email id:
hod_civ@presidencyuniversity.in
Contact No.: 9632349550

REGISTRAR

PRESIDENCY UNIVERSITY Registrar BANGALORE

DECLARATION

(From Project Students)

(To scan this page and enclose in the project proposal)

We, the project team hereby declare that the details enclosed in the project proposal (Title of the Project: **Alternate treatment technique to Conventional Treatment on Waste Water using Ornamental Plants.** Branch: **Civil Department** College: **presidency University**) are true and correct to the best of our knowledge and belief and we undertake to inform KSCST of any changes therein in the project title, students name will be intimated immediately through project guide. In case any of the above information is found to be false or untrue or misleading, we are aware that we may be held liable for it. We hereby authorize sharing of the project information with this project proposal with the Karnataka State Council for Science and Technology, Bangaluru.

We are aware that the project team must exhibit / demonstrate the project in the nodal centre and interact regarding project with the experts and to exhibit the project in the State Level Seminar and Exhibition (if selected). If the student team fails to attend the evaluation in nodal centre or fails to attend the State Level Seminar and Exhibition, the supported project amount will be returned to KSCST.

We also hereby, enclose the endorsement form to KSCST, Bengaluru.

Name of the students with USN No.	**Signature with date**
1. Vijay Prabhakar (20191CIV0078)	
2. Harish R N (20191CIV9004)	
3. N.B. Bhanu Prakash (20191CIV9013)	
4. T Sai Kiran (20191CIV0071)	

1(Name & Signature of Project Guide with Seal)
Email id: venkatesharaju.k@presidencyuniversity.in
Contact No.: 9449621635

(Name & Signature of HOD with Seal)
Email id: hod_civ@presidencyuniversity.in
Contact No.: 9632349550

2.Name of the Project Guide: Mr. Bhavan kumar M
Email id:bhavankumar.m@presidencyuniversity.in
Contact No.:9980839952

REGISTRAR

PRESIDENCY UNIVERSITY Registrar BANGALORE

ENDORSEMENT

(From College, endorsement to be taken in the institution / Department Letter head)

(To scan this page and enclose in the project proposal)

This is to certify that 1) Mr. Harish R N 2) Mr. Vijay Prabhakar 3) Mr. N.B Bhanu Prakash 4) Mr. T. Sai Kiran are bonafide student(s) of Department of civil in the degree program of our institution. If the project proposal submitted by these students under the 46th series of Student Project Programme is selected by KSCST, we will provide the requisite laboratory / Computer / infrastructure support in our college / Institution. Further we also take necessary steps to see that the project team will exhibit / demonstrate their project in the nodal Centre and in the State Level Seminar and Exhibition (if selected). If the student team fails to send the completed project report or fails to attend the evaluation in nodal Centre or fails to attend the State Level Seminar and Exhibition, the supported project amount will be returned to KSCST.

(Name & Signature of Project Guide with Seal)	**(Signature of HOD with Seal)**	**(Signature of the Principal with Seal)**
Email id:	**Email id:**	**Email id:**
venkatesharaju.k@presidencyuniversity.in	**hod_civ@presidencyunivesity.in**	**deansoe@presidencyuniversity.in**
Contact No.:9449621635	**Contact No.: 9632349550**	**Contact No.:** 9448503567

REGISTRAR

PRESIDENCY UNIVERSITY Registrar BANGALORE

DETAILS OF PROCESSING FEES MADE THROUGH NEFT / UPI PAYMENT

(**Note:** Include this page in the softcopy of the student project proposal. The student team shall furnish the details in the Google Form. It is informed to the students to 1) keep ready the softcopy of the project proposal and other documents and 2) Furnish the payment made details as processing fees and 3) update the details in the Google Form on the same day of payment made to KSCST by NEFT / UPI payment).

1. TITLE OF THE PROJECT	:	**Alternate treatment technique to Conventional Treatment on Waste Water using Ornamental Plants.**
2. NAME OF THE TEAM LEADER	:	Vijay Prabhakar
3. EMAIL ID	:	20191CIV0078@presidencyuniversity.in
4. CONTACT MOBILE NO.	:	8050339363

PAYMENT MADE DETAILS

5. BANK REF. NO. / UTR NO. / UPI No. (12 digits)	:	305553571861
6. TRANSACTION ID	:	CICAgJD9g9ihlg
7. NAME OF THE SENDER / ACCOUNT HOLDER and CONTACT NUMBER	:	HARISH R N 9108868188
8. NAME OF THE BANK	:	DBS Bank
9. PROCESSING FEES	:	Rs. 1000/-
10. DATE OF PAYMENT MADE	:	24.2.2023
11. TIME	:	11:38 AM
12. MODE OF PAYMENT MADE (NEFT / UPI, PLEASE SPECIFY)	:	UPI (Gpay)

(Name & Signature of the team leader)

(Name & Signature of Project Guide or HOD with Seal)

REGISTRAR

PRESIDENCY UNIVERSITY Registrar BANGALORE

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science campus, Bengaluru

46th SERIES OF STUDENT PROJECT PROGRAMME (SPP)

(Note: This page is for information about bank details of KSCST to the student team and college / institution and not to include this page in the project proposal softcopy)

BANK ACCOUNT DETAILS OF KSCST

Name and address of the Institution	Karnataka State Council for Science and Technology, IISc Campus, Bangalore -560012
Account holder's name / Designation	Secretary, Karnataka State Council for Science and Technology
Bank Account No. & Name of the bank	Current A/C No. 0683201000024 Canara Bank, IISc Campus Branch, Bangalore-560012
IFSC Code	CNRB0000683
MICR Code	560015023
Bank Branch Address	Canara Bank, Indian Institute of Science, Bangalore-560012

BANK DETAILS

Name of the Agency	Karnataka State Council for Science and Technology IISc Campus, Bangalore - 560012
Account holder's name / Designation	Secretary , Karnataka State Council for Science and Technology
Bank Account No. & Name of the bank	Current A/C No. 0683201000024 Canara Bank IISc Campus Branch Bangalore-560012
IFSC Code	CNRB0000683
MICR Code	560015023
Bank Branch Address	Canara Bank Indian Institute of Science Bangalore-560012

REGISTRAR

PRESIDENCY UNIVERSITY Registrar BANGALORE

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science campus, Bengaluru

Telephone: 080 -23600978, 23341652 || Email: spp@kscst.org.in
Website: www.kscst.iisc.ernet.in/spp.html or www.kscst.org.in/spp.html

FORMAT FOR STUDENT PROJECT PROPOSAL FOR THE 45th SERIES OF STUDENT PROJECT PROGRAMME

(Handwritten proposals will not be accepted, please fill all the details in this MS word file, insert images / diagrams wherever necessary. Convert to pdf file, get it approved from the project guide / head of the department and principal of your institution. Keep ready the scanned pdf file of 1) Declaration and Endorsement 2) details of processing fees made and fill-up the Google Form. Send the softcopy of the project proposal including the three scanned pages and send the proposal (All information in one pdf file) by email to spp@kscst.org.in

https://forms.gle/9wriMyaKhBaGaWpw7

1.	**Name of the College: Presidency University**
2.	**Project Title: Performance of concrete beams strengthened with bamboo strips using NSM technique under elevated temperature**
3.	**Branch: Civil Engineering**
4.	**Theme (as per KSCST poster):** **Non-conventional and / or composite building materials / structures**
5.	**Name(s) of project guide(s):** **1. Name: Dr. Nakul Ramanna** **Email id: nakul@presidencyuniversity.in** **Contact No.: 9632349550** **2. Name: Mr. N. Gopalakrishnan** **Email id: gopalakrishnan@presidencyuniversity.in** **Contact No.: 8050757021**
6.	**Name of Team Members:** **Name: UJWAL C** **USN No.: 20202BCT0013** **Email id:** **ujwal.20202bct0013@presidencyuniversity.in** **Mobile No: 9035961378** 

REGISTRAR

PRESIDENCY UNIVERSITY Registrar BANGALORE

	Name: RAKESH R **USN No.: 20202BCT0010** **Email id:** **rakesh.20202bct0010@presidencyuniversity.in** **Mobile No.: 9242429242** 
7.	**Team Leader of the Project:** **Name: UJWAL C** **USN No.: 20202BCT0013** **Email id: ujwal.20202bct0013@presidencyuniversity.in** **Mobile No: 9035961378**
8.	**Processing Fee Details (Through Online Payment only):** **(processing fee of Rs. 1000/-)** **Please furnish the payment made details provided in the last page of this proposal.** **Note:** (The student team shall furnish the details in the Google Form. It is informed to the students to 1) keep ready the project proposal and 2) make the payment made details for processing fees and 3) Enter the details in the Google Form on the same day of payment made to KSCST by NEFT / UPI payment).
9.	**Date of commencement of the Project:** 27/01/2022
10.	**Probable date of completion of the project:** 20/05/2022
11.	**Scope / Objectives of the project:** It is predicted that over 50% of the current infrastructure will require repair or strengthening within the next decade. This reduction in service life of the structure can be attributed to over-reliance on strength-based design recommended by the current codal provisions, in addition to poor maintenance and shoddy construction practices that is prevalent today. While expensive repair options using FRP strips, FRP wraps are the norm, engineers need to explore more sustainable materials such as Bamboo strips for strengthening members. Treated bamboos have found a place as replacement for steel reinforcements in residential construction. However it is yet to gain wide acceptance as strengthening material which provides impetus to this project. This project proposes to evaluate the feasibility of strengthening concrete beams using bamboo strips with near surface mount (NSM) technique. Further, the strengthened members will be subjected to elevated temperature (250°C) to simulate the effect of fire damage and the load carrying capacity and deflection characteristics will be evaluated.

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	Main objectives of the project are: 1. Evaluate the flexural behavior of concrete beams strengthened with Bamboo strips using NSM technique. 2. Test the load deflection response of control and strengthened beams at elevated temperature, upto 250°C. 3. Determine the efficacy of Ultrasonic Pulse Velocity Test (NDT method) to predict the relative strength of control and strengthened concrete members subjected to elevated temperature.
12.	**Methodology:** 1. Prepare M30 grade concrete beams 2. Retrofit with commercially available bamboo strips using near surface mount technique 3. Subject selected strengthened members to elevated temperature (upto 250°C) in an industrial grade oven 4. Conduct Ultrasonic Pulse Velocity Test (NDT) and flexural test to evaluate the performance of strengthened members under normal and elevated temperature. **Note:** In case of fabrication work in the project, an engineering drawing with dimensions / detailed design should be attached to the proposal.
13.	**Expected Outcome of the project:** 1. Bamboo could be utilized as a sustainable strengthening material for concrete structures. 2. Near surface mount method of strengthening concrete members would become a better alternative to engineers compared to externally bonded method. 3. Feasibility of Ultrasonic pulse velocity method to evaluate the relative strength of retrofitted concrete members subjected to damage at elevated temperatures will be established.
14.	**Is the project proposed relevant to the Industry / Society or Institution?** **Yes, relevant to Industry and Society** Bamboo has the potential to become a viable strengthening material compared to FRP for normal strength concrete structures. The construction industry specializing in retrofit and rehabilitation projects will stand to benefit from this eco-friendly, sustainable strengthening material. In the process the companies will also realize the benefits of near surface mount technique of repair compared to conventional external bonding method.

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15. **Can the product or process developed in the project be taken up for filing a Patent?**

No

Prior Art search done?

No

Note: If your answer is "Yes", you may contact Patent Information Centre of KSCST. For more details, email: pic@kscst.org.in

16. **Budget details (break-up details should be given):**

Note: KSCST will provide nominal grant support for carrying out the project by students if selected by the project selection committee.

Budget	Amount
a) Materials / Consumables Cement, Aggregates, Admixtures, Bamboo Strips, Epoxy	7000.00
b) Labor Application of epoxy, Cutting charges – Bamboo strips	2000.00
c) Travel (Describe)	0.00
e) Miscellaneous Tools (snipper, wrenches) Supplies (Gloves, Form Release)	1000.00
Total	10,000.00

17. **Any other technical details (Please specify):**

Visited Institute of Wood Science and Technology, Bangalore to get the details and material properties of Bamboo based products. Bamboo boards and cut-strips have shown promise and good tensile strength.

18. **SPP Coordinator (Identified by the college):**

Name: Dr. C S Ramesh

Email id: deanresearch@presidencyuniversity.in

Contact No.: 9880904891

Name of the Project Guide: Dr. Nakul R
Email id: nakul@presidencyuniversity.in
Contact No.: 9632349550

Name of the HOD: Dr. Nakul R
Email id: hod_civ@presidencyuniversity.in
Contact No.: 9632349550

REGISTRAR

PRESIDENCY UNIVERSITY Registrar BANGALORE

DECLARATION

(From Project Students)

We, the project team hereby declare that the details enclosed in the project proposal (Title of the Project: **Performance of concrete beams strengthened with bamboo strips using NSM technique under elevated temperature**, Branch: **Department of Civil Engineering**, College: **Presidency University**) are true and correct to the best of our knowledge and belief and we undertake to inform KSCST of any changes therein in the project title, students name will be intimated immediately through project guide. In case any of the above information is found to be false or untrue or misleading, we are aware that we may be held liable for it. We hereby authorize sharing of the project information with this project proposal with the Karnataka State Council for Science and Technology, Bengaluru.

We are aware that the project team must exhibit / demonstrate the project in the nodal centre and interact regarding project with the experts and to exhibit the project in the State Level Seminar and Exhibition (if selected). If the student team fails to attend the evaluation in nodal centre or fails to attend the State Level Seminar and Exhibition, the supported project amount will be returned to KSCST.

We also hereby, enclose the endorsement form to KSCST, Bengaluru.

Name of the students with USN No.	**Signature with date**
1. UJWAL C (20202BCT0013)	15/2/22
2. RAKESH R (20202BCT0010)	

Dr. Nakul R
(Name & Signature of Project Guide with Seal)
Email id: nakul@presidencyuniversity.in
Contact No.: 9632349550

Dr. Nakul R
(Name & Signature of HOD with Seal)
Email id: hod_civ@presidencyuniversity.in
Contact No.: 9632349550

Head of the Department
Civil Engineering
School of Engineering
PRESIDENCY UNIVERSITY
Rajanukunte, Yelahanka, Bengaluru

REGISTRAR

PRESIDENCY UNIVERSITY Registrar BANGALORE

ENDORSEMENT

This is to certify that 1) Mr. Ujwal C, 2) Mr. Rakesh R, are bonafide student(s) of Department of Civil Engineering, in the degree program of our institution. If the project proposal submitted by these students under the 45th series of Student Project Programme is selected by KSCST, we will provide the requisite laboratory / Computer / infrastructure support in our college / Institution. Further we also take necessary steps to see that the project team will exhibit / demonstrate their project in the nodal centre and in the State Level Seminar and Exhibition (if selected). If the student team fails to send the completed project report or fails to attend the evaluation in nodal centre or fails to attend the State Level Seminar and Exhibition, the supported project amount will be returned to KSCST.

(Name & Signature of Project Guide with Seal)	(Signature of HOD with Seal)	(Signature of the Principal with Seal)
Dr. Nakul R		
Email id: nakul@presidencyuniversity.in	Email id: nakul@presidencyuniversity.in	Email id: registrar@presidencyuniversity.in
Contact No.: 9632349550	Contact No.:9632349550	Contact No.:080-23093500

Head of the Department
Civil Engineering
School of Engineering
PRESIDENCY UNIVERSITY
Rajanukunte, Yelahanka, Bengaluru

PRESIDENCY UNIVERSITY Registrar BANGALORE

REGISTRAR

DETAILS OF PROCESSING FEES MADE THROUGH NEFT / UPI PAYMENT

(**Note:** Include this page in the softcopy of the student project proposal. The student team shall furnish the details in the Google Form. It is informed to the students to 1) keep ready the softcopy of the project proposal and other documents and 2) Furnish the payment made details as processing fees and 3) update the details in the Google Form on the same day of payment made to KSCST by NEFT / UPI payment).

1. TITLE OF THE PROJECT	:	PERFORMANCE OF CONCRETE BEAMS STRENGTHENED WITH BAMBOO STRIPS USING NSM TECHNIQUE UNDER ELEVATED TEMPERATURE
2. NAME OF THE TEAM LEADER	:	UJWAL C
3. EMAIL ID	:	ujwal.20202bct0013@presidencyuniversity.in
4. CONTACT MOBILE NO.	:	9035961378

PAYMENT MADE DETAILS

5. BANK REF. NO. / UTR NO. / UPI No. (12 digits)	:	204601063997
6. TRANSACTION ID	:	T2202152117108731294617
7. NAME OF THE SENDER / ACCOUNT HOLDER and CONTACT NUMBER	:	UJWAL C 9035961378
8. NAME OF THE BANK	:	PAYTM BANK
9. PROCESSING FEES	:	Rs. 1000/-
10. DATE OF PAYMENT MADE	:	15-02-2022
11. TIME	:	9:17 PM
12. MODE OF PAYMENT MADE (NEFT / UPI, PLEASE SPECIFY)	:	PHONEPE (UPI)

UJWAL C

(Name & Signature of the team leader)

Dr. NAKUL R

(Name & Signature of Project Guide or HOD with Seal)

Head of the Department
Civil Engineering
School of Engineering
PRESIDENCY UNIVERSITY
Rajanukunte, Yelahanka, Bengaluru

REGISTRAR

PRESIDENCY UNIVERSITY Registrar BANGALORE

KSCST

ಕರ್ನಾಟಕ ಸರ್ಕಾರ

Department of Science and Technology Government of India

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science campus, Bengaluru

Telephone: 080 -23600978, 23341652 || Email: spp@kscst.org.in
Website: www.kscst.iisc.ernet.in/spp.html or www.kscst.org.in/spp.html

FORMAT FOR STUDENT PROJECT PROPOSAL FOR THE 45th SERIES OF STUDENT PROJECT PROGRAMME

(Handwritten proposals will not be accepted, please fill all the details in this MS word file, insert images / diagrams wherever necessary. Convert to pdf file, get it approved from the project guide / head of the department and principal of your institution. Keep ready the scanned pdf file of 1) Declaration and Endorsement 2) details of processing fees made and fill-up the Google Form. Send the softcopy of the project proposal including the three scanned pages and send the proposal (All information in one pdf file) by email to spp@kscst.org.in

https://forms.gle/9wriMyaKhBaGaWpw7

1.	**Name of the College: PRESIDENCY UNIVERSITY**
2.	**Project Title: Experimental Studies on use of concrete demolition waste as a replacement for coarse aggregate in Concrete**
3.	**Branch: CIVIL ENGINEERING**
4.	**Theme (as per KSCST poster): Non-conventional and / or composite building materials / structures**
5.	**Name(s) of project guide(s):** **1. Name: Prof. Gopalakrishnan N** **Email id: gopalakrishnan@presidencyuniversity.in** **Contact No.: 8050757021** **2. Name: Dr. Jagdish H Godihal** **Email id: drjagdishgodihal@presidencyuniversity.in** **Contact No.: 8275037029**
6.	**Name of Team Members (Strictly not more than four students in a batch):** *(Type names in Capital Letters as provided in your college)* (Please paste the latest passport size photograph adjacent to your respective names) **Name: MEKALAPALLI ESWAR** **USN No.: 20191LCV0008** **Email id: eswar9083@gmail.com** **Mobile No:6302462194** 

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PRESIDENCY UNIVERSITY Registrar BANGALORE

	Name: AVULA SAINATH REDDY **USN No.: 20181CIV0016** **Email id: sainath357@gmail.com** **Mobile No.:9000288558**  **Name: D. JEDIDIAH** **USN No.: 20181CIV0024** **Email id: jedidiah303@gmail.com** **Mobile No.: 6301712311**  **Name: AVULA SRINIVAS MANOJ** **USN No.:20181CIV0017** **Email id: srinivasmanoj4@gmail.com** **Mobile No.:9966871109** 
7.	**Team Leader of the Project:** **Name: MEKALAPALLI ESWAR** **USN No.: 20191LCV0008** **Email id: eswar9083@gmail.com** **Mobile No.:6302462194**
8.	**Processing Fee Details (Through Online Payment only):** **(processing fee of Rs. 1000/-)** **Please furnish the payment made details provided in the last page of this proposal.** **Note:** (The student team shall furnish the details in the Google Form. It is informed to the students to 1) keep ready the project proposal and 2) make the payment made details for processing fees and 3) Enter the details in the Google Form on the same day of payment made to KSCST by NEFT / UPI payment).
9.	**Date of commencement of the Project:** 13/01/2022
10.	**Probable date of completion of the project:** 23/05/2022
11.	**Scope / Objectives of the project:** The objective of this study is to explore the suitability of recycled aggregates produced from demolished concrete debris in making structural concrete. Based on this main objective, the specific objectives are: • To replace natural coarse aggregates by the recycled coarse aggregates in

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	various percentages to arrive at an optimum percentage. • To study and compare the mechanical properties of fresh as well as hardened concrete specimens with and without recycled aggregates • Establish the grade of concrete that can be attained. • To determine the effect on durability and improvement on workability.
12.	**Methodology:** 1. Procurement of recycled aggregates, cement, fine aggregates, admixtures and other raw materials. 2. Determination of Material properties of cement and aggregates by performing tests such as specific gravity, compressive strength, sieve analysis. 3. Carrying out of mix design as per relevant BIS codal provisions. 4. Casting of concrete specimens without recycled aggregates (control mix) and with varying proportions of recycled coarse aggregate replacement. 5. Carrying out of tests such as workability test, compressive strength, water absorption and compare results. 6. Comparison of obtained test results with control mix to determine the improvement in performance and to obtain optimum percentage of replacement for recycled aggregates.
	Expected Outcome of the project: • The project is expected to produce a concrete mix which is sustainable, cheap and durable. • The Concrete produced with coarse aggregates replaced by concrete debris will also help in reducing the load on landfills • Ecofriendly and less negative impact on environment.
13.	**Is the project proposed relevant to the Industry / Society or Institution?** **Yes.** The construction industry at large would be benefitted by the use of demolition waste as this would help in reducing use of precious natural resources and reduce dependency on quarrying activities for coarse aggregate. The project will also lead to a cheaper concrete product which is as strong and durable as conventional concrete. The product would benefit the environment by helping to reuse a waste material.

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14. **Can the product or process developed in the project be taken up for filing a Patent?**

No:

Prior Art search done?

No:

15. **Budget details (break-up details should be given):**

Note: KSCST will provide nominal grant support for carrying out the project by students if selected by the project selection committee.

Budget	Amount
a) Materials / Consumables Cement Recycled aggregates Coarse Aggregates Admixtures Fine aggregates	4,500.00
b) Labor 1 labor for 2 days for mixing and casting@ 700/day	1,400.00
c) Travel (Describe)	0.00
e) Miscellaneous Tools (Screwdriver) Gloves, Concrete Mould oil	5,00.00
Total	6,400.00

16. **Any other technical details (Please specify):**

REFERENCES

1. **V.S. Babu, A.K. Mullick, K.K. Jain & P.K. Singh (2014) :Strength and durability characteristics of high strength concrete with recycled aggregates-influence of processing, Journal of Sustainable Cement-Based materials.**
   http://dx.doi.org/10.1080/21650373.2014.976777

2. **K. Ramadevi and R. Chitra (2017), "Concrete using recycled aggregates", (2017), International Journal of Civil Engineering and Technology (IJCIET)**
   http://iaeme.com/Home/issue/IJCIET?Volume=8&Issue=9

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	3. **Khaoula Naouaou, Azzeddine Bouyahyaoui, Toufik Cherradi (2021), "Durability of Recycled Aggregate Concrete, Volume 6, Issue 1, Page No 735-741, Advances in Science, Technology and Engineering Systems Journal** **https://dx.doi.org/10.25046/aj060180**
17.	**SPP Coordinator (Identified by the college):** **Name: Dr. C S Ramesh** **Email id: deanresearch@presidencyuniversity.in** **Contact No.: 9880904891**

Name of the Project Guide : Mr.Gopalakrishnan N
Dr. Jagdish H Godihal
Email id: drjagdishhgodihal@presidencyuniversity.in
gopalakrishnan@presidencyuniversity.in
Contact No.:8050757021/ 8275037029

Name of the HOD: Dr. Nakul Ramanna
Email id: nakul@presidencyuniversity.in
Contact No.: 9632349550

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PRESIDENCY UNIVERSITY Registrar BANGALORE

DECLARATION

(From Project Students)

We, the project team hereby declare that the details enclosed in the project proposal (Title of the Project: **Experimental Studies on use of concrete demolition waste as a replacement for coarse aggregate in Concrete**, Branch: **Department of Civil Engineering** College: **Presidency University** are true and correct to the best of our knowledge and belief and we undertake to inform KSCST of any changes therein in the project title, students name will be intimated immediately through project guide. In case any of the above information is found to be false or untrue or misleading, we are aware that we may be held liable for it. We hereby authorize sharing of the project information with this project proposal with the Karnataka State Council for Science and Technology, Bangalore.

We are aware that the project team must exhibit / demonstrate the project in the nodal centre and interact regarding project with the experts and to exhibit the project in the State Level Seminar and Exhibition (if selected). If the student team fails to attend the evaluation in nodal centre or fails to attend the State Level Seminar and Exhibition, the supported project amount will be returned to KSCST.

We also hereby, enclose the endorsement form to KSCST, Bengaluru.

Name of the students with USN No.	**Signature with date**
1. MEKALAPALLI ESWAR (20191LCV0008)	M. ESWAR
2. AVULA SAINATH REDDY (20181CIV0016)	A. Sainath reddy
3. DAKKA JEDIDIAH (20181CIV0024)	D. Jedidiah
4. AVULA SRINAVAS MANOJ (20181CIV0017)	A. S. Manoj

[GOPALAKRISHNAN.N]

(Name & Signature of Project Guide with Seal)

Email id:
gopalakrishnan@presidencyuniversity.in
drjagdishhgodihal@presidencyuniversity.in
Contact No.: 8050757021/ 8275037029

(JAGDISH H GODIHAL)

(Name & Signature of HOD with Seal)

Email id:
nakul@presidencyuniversity.in

Contact No.: 9632349550

Head of the Department
Civil Engineering
School of Engineering
PRESIDENCY UNIVERSITY
Rajanukunte, Yelahanka, Beng

GAIN MORE KNOWLEDGE
REACH GREATER HEIGHTS

PRESIDENCY UNIVERSITY

(Private University Estd. in Karnataka State by Act No.41 of 2013)

ENDORSEMENT

This is to certify that 1) Mr. M. ESWAR 2) Mr. A. SAINATH REDDY 3) Mr. D. JEDIDIAH 4) Mr. A. SRINIVAS MANOJ, are bonafide student(s) of Department of Civil Engineering, in the degree program of our institution. If the project proposal submitted by these students under the 45th series of Student Project Programme is selected by KSCST, we will provide the requisite laboratory / Computer / infrastructure support in our college / Institution. Further we also take necessary steps to see that the project team will exhibit / demonstrate their project in the nodal centre and in the State Level Seminar and Exhibition (if selected). If the student team fails to send the completed project report or fails to attend the evaluation in nodal centre or fails to attend the State Level Seminar and Exhibition, the supported project amount will be returned to KSCST.

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[GOPALAKRISHNAN.N] (JAGDISH H. GODIHAL)

(Name & Signature of Project Guide with Seal)

(Signature of HOD with Seal)

PRESIDENCY UNIVERSITY Registrar BANGALORE

(Signature of the Principal with Seal)

Email id:
gopalakrishnan@presidencyuniversity.in
drjagdishhgodihal@presidencyuniversity.in

Contact No.: 8050757021/ 8275037029

Email id:
hod_civ@presidencyuniversity.in

Contact No.: 9632349550

Email id:
registrar@presidencyuniversity.in

Contact No.: 080-23093500

Head of the Department
Civil Engineering
School of Engineering
PRESIDENCY UNIVERSITY
Rajanukunte, Yelahanka, Bengaluru-64

DETAILS OF PROCESSING FEES MADE THROUGH NEFT / UPI PAYMENT

(**Note:** Include this page in the softcopy of the student project proposal. The student team shall furnish the details in the Google Form. It is informed to the students to 1) keep ready the softcopy of the project proposal and other documents and 2) Furnish the payment made details as processing fees and 3) update the details in the Google Form on the same day of payment made to KSCST by NEFT / UPI payment).

1. TITLE OF THE PROJECT	:	Experimental Studies on use of concrete demolition waste as a replacement for coarse aggregate in Concrete
2. NAME OF THE TEAM LEADER	:	MEKALAPALLI ESWAR
3. EMAIL ID	:	eswar9083@gmail.com
4. CONTACT MOBILE NO.	:	6302462194

PAYMENT MADE DETAILS

5. BANK REF. NO. / UTR NO. / UPI No. (12 digits)	:	204562671467
6. TRANSACTION ID	:	T220214142252517456376 9
7. NAME OF THE SENDER / ACCOUNT HOLDER and CONTACT NUMBER	:	MEKALAPALLI ESWAR 6302462194
8. NAME OF THE BANK	:	STATE BANK OF INDIA
9. PROCESSING FEES	:	Rs. 1000/-
10. DATE OF PAYMENT MADE	:	14/02/2022
11. TIME	:	2:22 PM
12. MODE OF PAYMENT MADE (NEFT / UPI, PLEASE SPECIFY)	:	PHONEPE

[M. Eswar]

(Name & Signature of the team leader)

[GOPALAKRISHNAN.N]

(Name & Signature of Project Guide or HOD with Seal)

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science campus, Bengaluru

Telephone: 080 -23600978, 23341652 || Email: spp@kscst.org.in
Website: www.kscst.iisc.ernet.in/spp.html or www.kscst.org.in/spp.html

FORMAT FOR STUDENT PROJECT PROPOSAL FOR THE 45th SERIES OF STUDENT PROJECT PROGRAMME

(Handwritten proposals will not be accepted, please fill all the details in this MS word file, insert images / diagrams wherever necessary. Convert to pdf file, get it approved from the project guide / head of the department and principal of your institution. Keep ready the scanned pdf file of 1) Declaration and Endorsement 2) details of processing fees made and fill-up the Google Form. Send the softcopy of the project proposal including the three scanned pages and send the proposal (All information in one pdf file) by email to spp@kscst.org.in

https://forms.gle/9wriMyaKhBaGaWpw7

1.	**Name of the College: PRESIDENCY UNIVERSITY**
2.	**Project Title: STUDY ON INCORPORATION OF PLASTIC WASTE IN CLAY BRICKS**
3.	**Branch: CIVIL ENGINEERING**
4.	**Theme (as per KSCST poster):** **Non-Conventional and / or composite building materials / structures**
5.	**Name(s) of project guide(s):** **1. Name: Prof. Gopalakrishnan N** **Email id: gopalakrishnan@presidencyuniversity.in** **Contact No.:8050757021** **2. Name: Dr. Nakul R** **Email id: nakul@presidencyuniversity.in** **Contact No.: 9632349550**
6.	**Name of Team Members** **Name: JATIN R** **USN No.: 20181CIV0044** **Email id: jatinvashista2015@gmail.com** **Mobile No: 9483518001** **Name: JAGANNATHA B S** **USN No.: 20181CIV0042** **Email id: jagannatha1125@gmail.com** **Mobile No.: 8548957039**

	Name: HEMANTHA B J **USN No.:20181CIV0039** **Email id: hemanthabj42547@gmail.com** **Mobile No.:7022689752**  **Name: HARSHA B L** **USN No.:20181CIV0037** **Email id: harshahassi061@gmail.com** **Mobile No.:8050623448** 
7.	**Team Leader of the Project:** **Name: JAGANNATHA B S** **USN No.: 20181CIV0042** **Email id: jagannatha1125@gmail.com** **Mobile No.: 8548957039**
8.	**Processing Fee Details (Through Online Payment only):** **(processing fee of Rs. 1000/-)** **Please furnish the payment made details provided in the last page of this proposal.** **Note:** (The student team shall furnish the details in the Google Form. It is informed to the students to 1) keep ready the project proposal and 2) make the payment made details for processing fees and 3) Enter the details in the Google Form on the same day of payment made to KSCST by NEFT / UPI payment).
9.	**Date of commencement of the Project:** **12/01/2022**
10.	**Probable date of completion of the project:** **20/05/2022**
11.	**Scope / Objectives of the project:** the Central Pollution Control Board reports that around 3.3 million metric tons of plastic waste was generated in India in 2018-19. This roughly translated to 9,200 tons a day (TPD). Plastic products take up to 1000 years to decompose in landfills, plastic bags take 10-20 years to decompose, while plastic bottles take 450 years. Hence, the only concrete solution to plastic disposal is to reuse it. Hence, the main objective of this project is to explore the possibility of incorporating plastic waste in manufacture of clay bricks. The project aims to produce a clay brick of lesser density (owing to the low density of plastic) with reduced use of clay which is a natural resource.

12.	**Methodology:** 1. Collection of raw materials and testing for material properties (Plastic and mud used in manufacturing of brick) 2. Casting of clay blocks with plastic in moulds – Plastic is shredding and mixed under heat with clay to ensure melting and uniform mixing of plastic. 3. Blocks with varying percentage of plastic waste will be casted. 4. The casted mud brick mixed with plastic will then be left for cooling. 5. Compression Strength and Water Absorption Tests on the experimental bricks and traditional clay bricks. 6. Analyzing the results to obtain the optimum percentage of plastic waste which produces strong and durable bricks.
13.	**Expected Outcome of the project:** 1. Clay Bricks with plastic waste will be a viable and sustainable alternate to traditional clay bricks. 2. Clay Bricks with plastic waste will have lower permeability thus resulting in enhanced durability. 3. Incorporation of plastic waste in Clay bricks will result in an effective solution to the menace of plastic disposal.
14.	**Is the project proposed relevant to the Industry / Society or Institution?** **Yes** The construction industry stands to benefit from a more lightweight and durable clay brick. The project will also be of benefit to society at large as it will provide an effective means of reusing plastic waste. It is a viable option to avoid plastic from reaching landfills and will help protect the environment.
15.	**Can the product or process developed in the project be taken up for filing a Patent?** **Yes / No: No** **Prior Art search done?** **Yes/No: No** **Note:** If your answer is "Yes", you may contact Patent Information Centre of KSCST. For more details, email: pic@kscst.org.in

16. Budget details (break-up details should be given):

Budget	Amount
a) Materials / Consumables Plastic bottles from scrap dealers Bottle shredder Clay Gas cylinder Cement GI Moulds	5,250.00
b) Labor 1 labor for 3 days for mixing and casting@ 700/day	2,100.00
c) Travel (Describe)	0.00
e) Miscellaneous (Please specify) Tools (snipper, Mould Press) Gloves, Concrete Mould oil	3,000.00
Total	10,350.00

17. Any other technical details:

REFERENCES

1. Dinesh S, Dinesh A and Kirubhakaran K, "Utilisation of Waste Plastic in Manufacturing of Bricks and Paver Blocks", 2016, Vol. 11, Issue No.3, International Journal of Applied Engineering Research.
2. Amit Gawande, G. Zamare., V.C Renge., Saurabh Tayde, G. Bharsakale, "An overview on waste plastic utilization in asphalting of roads", 2012, Journal of Engineering Research And Studies (JERS), Vol. III, Issue II, pp 01-05
3. Arvind Singhal, Dr. Omprakash Netula, "Utilization of Plastic Waste In Manufacturing of Plastic Sand Bricks", June 2018, Volume 5, Issue 6, Journal of Emerging Technologies and Innovative Research

18. SPP Coordinator (Identified by the college):

Name: Dr. C S Ramesh

Email id: deanresearch@presidencyuniversity.in

Contact No.: 9880904891

Name of the Project Guide: Mr.Gopalakrishnan N
Dr. Nakul Ramanna

Email id: gopalakrishnan@presidencyuniversity.in
nakul@presidencyuniversity.in

Contact No.: 8050757021/ 9632349550

Name of the HOD: Dr. Nakul Ramanna

Email id: hod_civ@presidencyuniversity.in

Contact No.: 9632349550

DECLARATION

(From Project Students)

We, the project team hereby declare that the details enclosed in the project proposal (Title of the Project: **STUDY ON INCORPORATION OF PLASTIC WASTE IN CLAY BRICKS**, Branch: **Department of Civil Engineering**, College: **Presidency University** are true and correct to the best of our knowledge and belief and we undertake to inform KSCST of any changes therein in the project title, students name will be intimated immediately through project guide. In case any of the above information is found to be false or untrue or misleading, we are aware that we may be held liable for it. We hereby authorize sharing of the project information with this project proposal with the Karnataka State Council for Science and Technology, Bengaluru.

We are aware that the project team must exhibit / demonstrate the project in the nodal centre and interact regarding project with the experts and to exhibit the project in the State Level Seminar and Exhibition (if selected). If the student team fails to attend the evaluation in nodal centre or fails to attend the State Level Seminar and Exhibition, the supported project amount will be returned to KSCST.

We also hereby, enclose the endorsement form to KSCST, Bengaluru.

Name of the students with USN No.	**Signature with date**
1. JAGANNATHA B S (20181CIV0042)	Jagannatha
2. JATIN R (20181CIV0044)	Jatin.R
3. HEMANTHA B J (20181CIV0039)	
4. HARSHA B L (20181CIV0037)	Harsha. B. L.

gopalakrishnan

GOPALAKRISHNAN.N

(Name & Signature of Project Guide with Seal)

Email id: gopalakrishnan@presidencyuniversity.in

nakul@presidencyuniversity.in

Contact No.: 8050757021

9632349550

Head of the Department
Civil Engineering
School of Engineering
PRESIDENCY UNIVERSITY
Rajanukunte, Yelahanka, Bengaluru -64

(Name & Signature of HOD with Seal)

Email id: hod_civ@presidencyuniversity.in

Contact No.: 9632349550

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PRESIDENCY UNIVERSITY

(Private University Estd. in Karnataka State by Act No.41 of 2013)

ENDORSEMENT

This is to certify that 1) Mr. Jagannatha B S, 2) Mr. Jatin R 3) Mr. Harsha B L, 4) Mr. Hemantha B J, are bonafide student(s) of Department of Civil Engineering, in the degree program of our institution. If the project proposal submitted by these students under the 45th series of Student Project Programme is selected by KSCST, we will provide the requisite laboratory / Computer / infrastructure support in our college / Institution. Further we also take necessary steps to see that the project team will exhibit / demonstrate their project in the nodal centre and in the State Level Seminar and Exhibition (if selected). If the student team fails to send the completed project report or fails to attend the evaluation in nodal centre or fails to attend the State Level Seminar and Exhibition, the supported project amount will be returned to KSCST.

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ngopalakrish

GOPALAKRISHNAN.N

(Name & Signature of Project Guide with Seal)

Email id:
gopalakrishnan@presidencyuniversity.in
nakul@presidencyuniversity.in

Contact No.: 8050757021

Head of the Department
Civil Engineering
School of Engineering
PRESIDENCY UNIVERSITY
Rajanukunte, Yelahanka, Bengaluru-6

(Signature of HOD with Seal)

Email id:
hod_civ@presidencyuniversity.in

Contact No.: 9632349550

PRESIDENCY UNIVERSITY
Registrar
BANGALORE

(Signature of the Principal with Seal)

Email id:
registrar@presidencyuniversity.in

Contact No.: 080-23093500

DETAILS OF PROCESSING FEES MADE THROUGH NEFT / UPI PAYMENT

(Note: Include this page in the softcopy of the student project proposal. The student team shall furnish the details in the Google Form. It is informed to the students to 1) keep ready the softcopy of the project proposal and other documents and 2) Furnish the payment made details as processing fees and 3) update the details in the Google Form on the same day of payment made to KSCST by NEFT / UPI payment).

1. TITLE OF THE PROJECT	:	STUDY ON INCORPORATION OF PLASTIC WASTE IN CLAY BRICKS
2. NAME OF THE TEAM LEADER	:	JAGANNATHA B S
3. EMAIL ID	:	jagannatha1125@gmail.com
4. CONTACT MOBILE NO.	:	8548957039

PAYMENT MADE DETAILS

5. BANK REF. NO. / UTR NO. / UPI No. (12 digits)	:	204500308101
6. TRANSACTION ID	:	T202014124155224812987 7
7. NAME OF THE SENDER / ACCOUNT HOLDER and CONTACT NUMBER	:	JAGANNATHA B S 8548957039
8. NAME OF THE BANK	:	CANARA BANK
9. PROCESSING FEES	:	Rs. 1000/-
10. DATE OF PAYMENT MADE	:	14/02/2022
11. TIME	:	12:42PM
12. MODE OF PAYMENT MADE (NEFT / UPI, PLEASE SPECIFY)	:	PHONEPE (UPI)

Jagannatha B.S.
(Name & Signature of the team leader)

GOPALAKRISHNAN.N
(Name & Signature of Project Guide or HOD with Seal)

International Conference on

EMPOWERING TO CREATE SMART FUTURE THROUGH E-GOVERNANCE AND DIGITIZATION

PRESIDENCY UNIVERSITY

SCHOOL OF MANAGEMENT

Bengaluru - 560064, India

Certificate of Appreciation

This is to certify that **Dr./Mr./Ms.** Jithendra S of _____ has won the **Best Paper Award** at the **International Conference** on **Empowering to Create Smart Future through E-Governance and Digitization**, 8th July , 2022 organized by School of Management, Presidency University, Bangalore.

Paper/Title A Study on Governance in MSW Management in Urban areas of Karnataka, India.

Co Author(s) Jagdish Godihal

REGISTRAR PRESIDENCY UNIVERSITY BANGALORE Registrar

Dr. Rosewine Joy
Convener

Dr. Gunjeet Kaur
Dean- SoM & SoC

SCHOOL OF ENGINEERING
DEPARTMENT OF CIVIL ENGINEERING

Year: 2022-2023 **Semester: VI** **Section: 6-CIV-1**

Course Code: CIV2019 **Course Name:** Advanced Concrete Technology

Type of Skill: Skill Development **Type of Activity:** Participative Learning

Instructor in Charge: Mr. Gopalakrishnan N **Instructor for Section:** Mr. Gopalakrishnan N

Details about the activity: Students were asked to present on new and evolving age concrete products. Suggested topics for presentation were circulated to students and students were asked to choose topics of their choice to present on a topic as a group of 2 students. The seminar presentation activity by students focuses on Skill Development through participative learning.

Topic of Activity: Presentation on New and Evolving Age Concrete

Details of the students and topics presented by students along with schedule is presented below:

Sl. No.	Student ID No	Name	Topic	Date & Day
1	20201CIV9002	VINAY S	Underwater concrete – Introduction, Mix proportion, Applications	Tuesday, 16 May 2023
2	20201CIV0020	A V AJAY	Underwater concrete – Placing techniques with Case studies	
3	20201CIV0014	PRAKRUTHI S V	Ready Mix Concrete - Process	Tuesday, 16 May 2023
4	20201CIV0045	VAISHANVI N RAJ	Ready Mix Concrete - Properties/ Precautions	
5	20201CIV0038	G MANJUNATH REDDY	Foam Concrete – Introduction, Manufacutring, Mix proportion	Tuesday, 16 May 2023
6	20201CIV0004	ABRAR PASHA	Foam Concrete - Advantages, disadvantages, Applications with Case studies	
7	20201CIV0021	BHAVISH H A	Lightweight concrete – Introduction, Types, Mix proportion for light weight aggregate Concrete	Wednesday, 17 May 2023
8	20201CIV0023	SATYAM KUMAR SINGH	Lightweight aggregate concrete – Advantages, disadvantages, Applications with Case studies	

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9	20201CIV0025	MANISH KUMAR	Bacterial Concrete – Introduction, Manufacutring, Mix proportion	Wednesday, 17 May 2023
10	20201CIV0017	KISHORE S	Bacterial Concrete – Advantages, disadvantages, Applications with Case studies	
11	20201CIV0022	SAYAM BHARAMRAJ DURGE	Light Transmitting Concrete – Manufacutring, Uses and applications with Case studies	Wednesday,17 May 2023
12	20201CIV0032	B P JANAVI	Photoprint Concrete – Manufacutring, Uses and applications with Case studies	Wednesday, 17 May 2023
13	20201CIV0026	GOWTHAM PATEL P	Sprayed Concrete/ Shotcreting - Introduction, Dry Process and its Applications	Friday, 19 May 2023
14	20201CIV0009	SANTHOSH GOWDA K G	Sprayed Concrete/ Shotcreting - Wet Process, its applications. Advantages and Disadvantages of Shotcreting	
15	20201CIV0002	NIRANJAN K L	Fiber Reinforced Concrete – Introduction, Types, Mix proportion	Friday, 19 May 2023
16	20201CIV9001	ABHISHEK MANTALE	Fiber Reinforced Concrete – Advantages, disadvantages, Applications with Case studies	
17	20201CIV0031	SUNKARA JAYAPRAKASH	Roller Compacted concrete – Introduction, Manufacutring, Mix proportion	Friday, 19 May 2023
18	20201CIV0015	MANJUNATHA K	Roller Compacted concrete – Advantages, disadvantages, Applications with Case studies	
19	20201CIV0008	MEKHALA D	Geopolymer concrete – Introduction, Manufacutring, Mix proportion	Monday, 22 May 2023
20	20201CIV0024	SAHANA T H	Geopolymer concrete – Advantages, disadvantages, Applications with Case studies	
21	20211LCV0002	JEEVAN D	Self curing concrete – Introduction, Manufacutring, Mix proportion	Monday, 22 May 2023
22	20201CIV0007	ANAMIKA KUMARI	Self curing concrete – Advantages, disadvantages, Applications with Case studies	

REGISTRAR

Sample Slides and Geo-tagged from Student Seminar Presentations

PRESIDENCY UNIVERSITY
Presidency University Act, 2013 of the Karnataka Act No. 41 of 2013 | Established under Section 2(f) of UGC Act, 1956
Approved by AICTE, New Delhi | Approved By BCI
Bengaluru

45 YEARS OF ACADEMIC WISDOM

SCHOOL OF ENGINEERING

Department of Civil Engineering

CIV2019 Advanced Concrete Technology

Seminar Presentation on

"Light Transmitting Concrete – Manufacturing, Uses and applications with Case studies"

Presented by

Mr. Sayam .B. Durge

20201CIV0022

VI Sem B. Tech. (Civil Engineering)

CASE STUDIES

Case Study 01: "Light Transmitting Concrete" for the Cella Septichora Visitor Center, Pecs, Hungary (LiTraCon):

Description Of Project

Location	Pécs, Szent István tér, 7624 Hungary
Architect	Bachmann Architects (H)
Area	50 square meter (Appx.)
Materials	Glass optical fibre, concrete
Start of works	Project 2005
End of works	Completion 2006
Total cost of the work	51360 euro (3.9 cr.appx.)

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SCHOOL OF ENGINEERING
Department of Civil Engineering

CIV2019 Advanced Concrete Technology

Seminar Presentation on

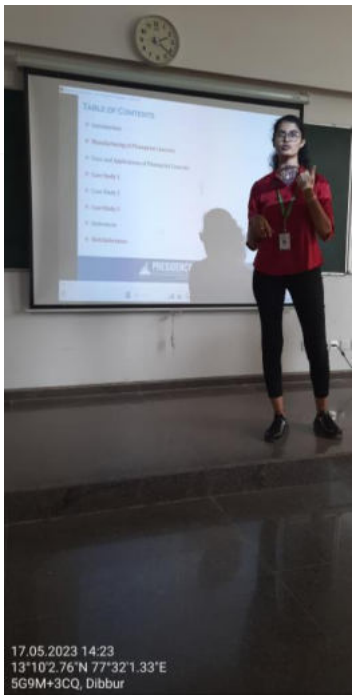
PHOTOPRINT CONCRETE – Manufacturing, uses, and applications with case studies

Presented by

Ms. BP JANAVI

20201CIV0032

VI Sem B. Tech. (Civil Engineering)



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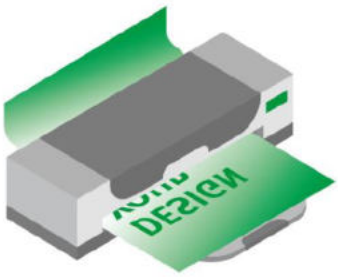
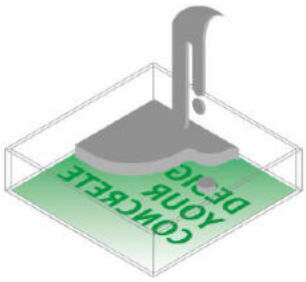
MANUFACTURING OF PHOTOPRINT CONCRETE:



- **Digital Design: The manufacturing process begins with the creation of a digital design using computer-aided design (CAD) software. This design defines the shape, dimensions, and patterns to be printed on the concrete surface.**
- **Print Design: RECKLI prints the design with a screen printing method on to a synthetic or magnetic foil that is treated with a concrete activator. The deactivator affects a delayed setting of the concrete. The treated surface can be washed out..**
- **Cast Concrete: The artico foil is laid into the casing. The synthetic foils ensure that the motif is applied to the concrete without wrinkles or creases. After the foil has been applied, the concrete is cast into the casing..**



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APPLICATIONS OF SELF CURING CONCRETE

- Self-curing concrete is basically targeted to the high-performance concrete and high strength concrete by which massive megastructure like tall sky scrapper, Tunnels, Bridge, shotcrete to prevent unstable slopes are needed to be constructed.
- These kinds of works need a very low water-cement ratio and less use of water. Thus there is a very high chance of the microcrack formation in such kind concrete during hydration. Thus the internal Curing is needed to apply in such works.
- Self-curing concrete created uninterrupted and progressive curing thus generally more applicable to the place where the accessibility after construction is difficult.
- Highly applicable where there is a scarcity of water like the desert area of the world. Moreover, the construction of rigid pavement road, where the water curing is difficult to maintain for a long time, sloping surfaces concreting, they can be applied for ease.

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45 YEARS OF ACADEMIC WISDOM

SCHOOL OF ENGINEERING
Department of Civil Engineering

CIV2019 Advanced Concrete Technology

Seminar Presentation on

"SELF CURING CONCRETE – INTRODUCTION, MANUFACTURING, MIX PROPORTION"

Presented by

Mr. JEEVAN D

20211LCV0002

VI Sem B.Tech. (Civil Engineering)

MIX PROPORTION

- **The mix proportion for self-curing concrete can vary depending on the specific project requirements and desired performance characteristics. However, here is a general guideline for a typical mix proportion:**
  1. **Cement: Typically, the cement content ranges from 10% to 15% of the total volume of concrete. The type of cement used can vary based on project specifications**
  2. **Aggregates: Aggregates, including sand and gravel, make up the majority of the concrete mixture. The proportions of coarse and fine aggregates can vary based on the desired strength and workability of the concrete.**
  3. **Water: The water-to-cement ratio is an essential factor in the mix proportion. It determines the workability and strength of the concrete. The water content should be carefully calculated to account for the self-curing agents and achieve the desired moisture retention.**
  4. **Self-curing agents: The amount of self-curing agents or admixtures added to the mix depends on the specific product being used and its recommended dosage. The dosage is typically determined based on the cement content or the total weight of the concrete mixture.**

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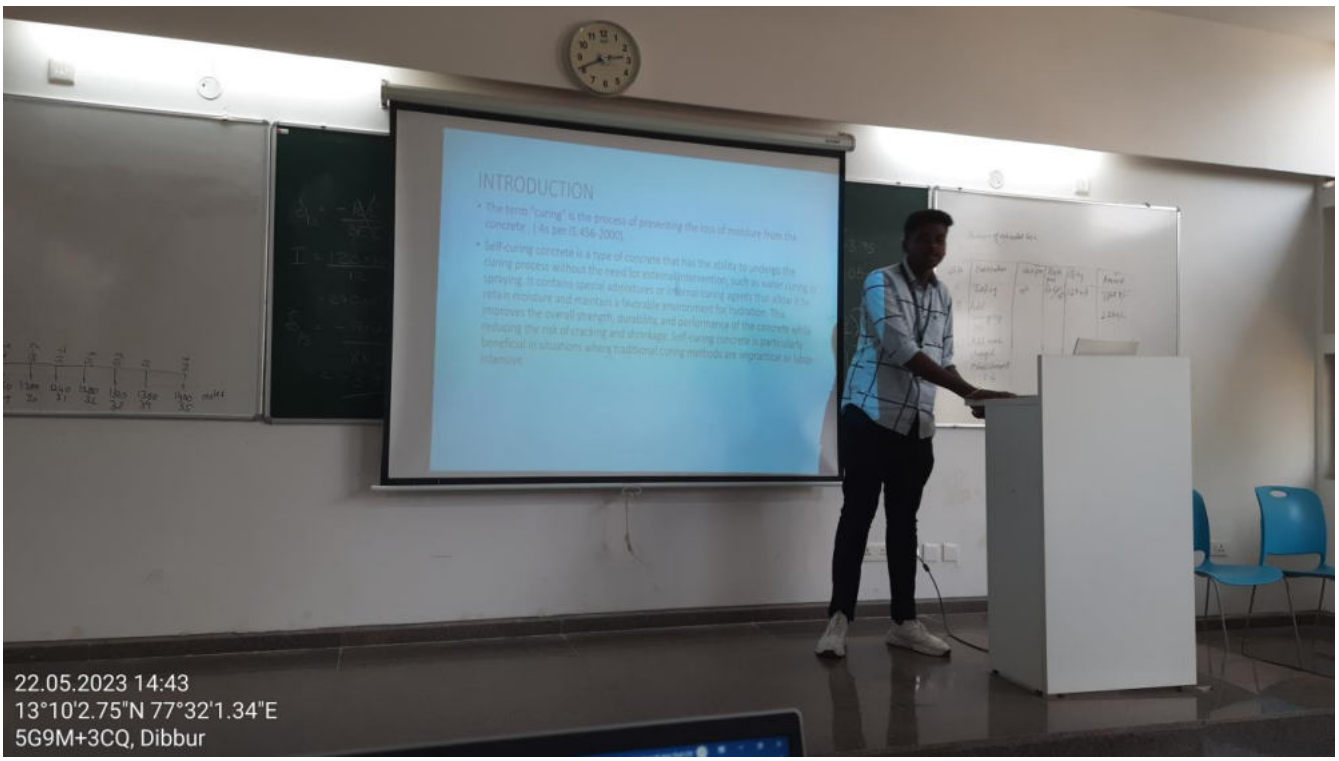

Signature of Instructor In-Charge

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SCHOOL OF ENGINEERING
DEPARTMENT OF CIVIL ENGINEERING

Year: 2022-2023 **Semester: VI** **Section: 6-CIV-1**

Course Code: CIV2039 **Course Name:** Construction Quality & Safety

Type of Skill: Skill Development **Type of Activity:** Participative Learning

Instructor in Charge: Ms. Divya Nair **Instructor for Section:** Ms. Divya Nair

Details about the activity: Students were given certain situations/tasks in the form of Case studies and were asked to present the solutions for the same after interacting with the fellow students. Topics for Case studies / presentation were circulated amongst students to pick the topic of their choice. The seminar presentation activity by students focuses on Skill Development through participative learning.

Topic of Activity: Building A Safe Future: Proactive Prevention of Accidents in Construction Sites

Details of the students and topics presented by students along with schedule is presented below:

Sl. No.	Student ID No	Name	Topic	Date
1	20201CIV0034	NAVEEN N	Case study on "Differences in opinion" at site	12 May 2023
2	20201CIV0035	SWAROOP N VENKAT	Case study on "Miscommunication" at Site	12 May 2023
3	20201CIV0036	VIKAS G	Case Study on "Brick Mock-up"	23 May 2023
4	20201CIV0040	SAI GANESH BALLARY	Classification of Construction accidents- Case study on Highway accident	26 May 2023
5	20211LCI0001	MUNGARA BHUVANA MANICHANDRA	Case Study on "Compromise in Quality"	25 April 2023

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Sample Slides and Geo-tagged from Student Seminar Presentations

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A REPORT ON

CASE STUDIES ON CONSTRUCTION QUALITY AND SAFETY

PRESENTED BY:

MUNGARA BHUVANA CHANDRA - 20211LCI0001
NAVEEN N - 20201CIV0034
SWAROOP N VENKAT - 20201CIV0035

FACULTY:

DIVYA NAIR
ASST. PROFESSOR

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CASE STUDY ON

'DIFFERENCES IN OPINION'

This architect is very new in her career, the firm she's working for is quite small and specialized in educational facilities. She has been assigned to a public university project which is more than double the value that either she or her firm has ever undertaken. This firm is very much planned and specialized architectural firm.

The general contractor and his project manager, who are working on the project have just the opposite background than the design team. The construction teams has mostly private negotiated project experience and are very accustomed to large projects.

PROBLEM STATEMENT:

- General Manager and his project manager are working on this project has just the opposite background than the design team.
- The construction team has mostly private negotiated project experience
- The project manager and the architect are not working well together.

PROBLEM CAN BE SOLVED BY:

- If the project manager and the architect are not working well together, it is likely that there will be communication and coordination issues that could potentially lead to delays, misunderstandings, and conflicts throughout the project's lifecycle.
- These issues could ultimately impact the quality of the final product, as well as its ability to meet project requirements and stakeholder

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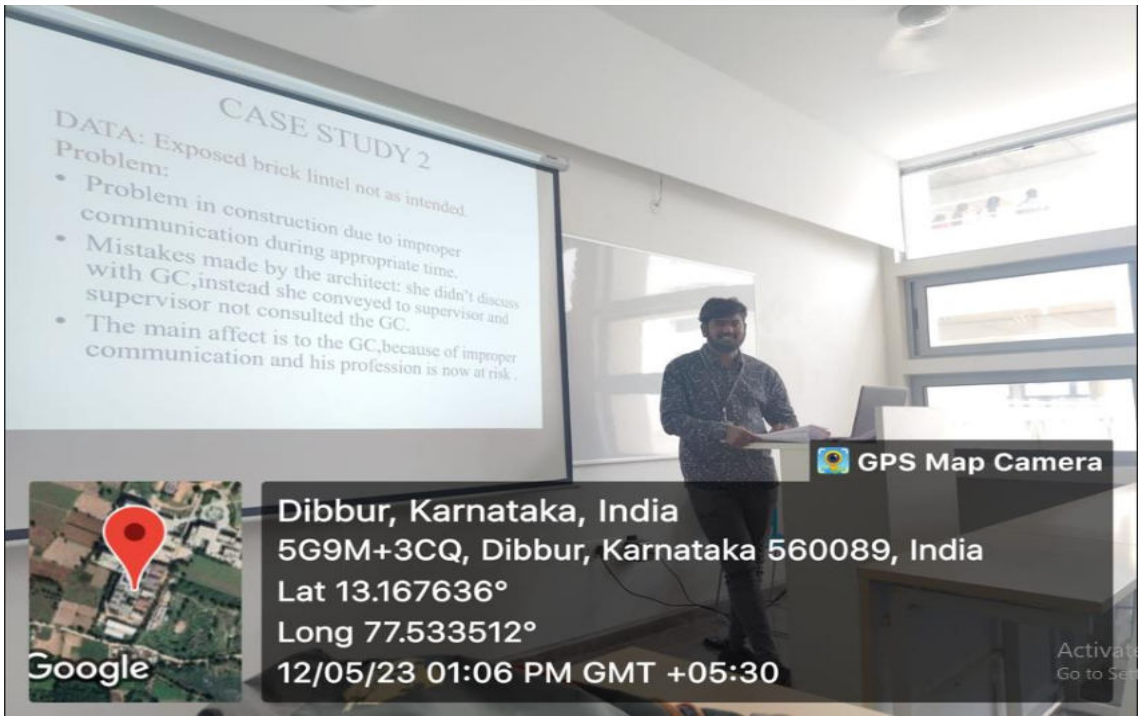

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CASE STUDY ON

'MISCOMMUNICATION'

On one of the site visits, the architect notices that the exposed interior brick lintels were not brought which she was intended. There were no clear details for this work in the bill document. She didn't discuss with GC but returned to her office and discuss with GC, but returned to her office and discussed the installation with the supervisor two weeks later at a weekly construction co-ordination meeting. She reported this to the owner, representing and stated that she wanted it to bid to the quality issues log. The brick mason former has chosen to repeat another lintel that was available in the document, although it was further exterior wall. The former thought he was doing the right thing as the course layout that he following was more difficult than the detail that architectural firm.

PROBLEM STATEMENT:

- Problem in construction due to improper communication during appropriate time.
- Mistakes made by the architect: she didn't discuss with GC, instead she conveyed to supervisor and supervisor not consulted the GC.
- The main affect is to the GC, because of improper communication and his profession is now at risk.

PROBLEM CAN BE SOLVED BY:

- Because the most important details in this text are that the GC and superintendent should remain professional and objective during a meeting and focus on finding solutions to the problem at hand. They may feel

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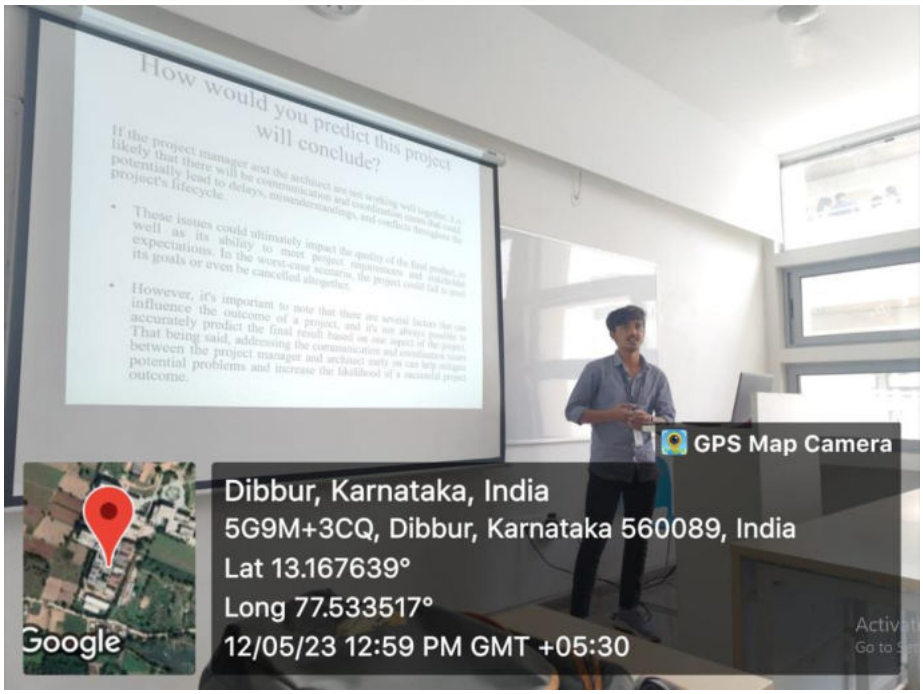

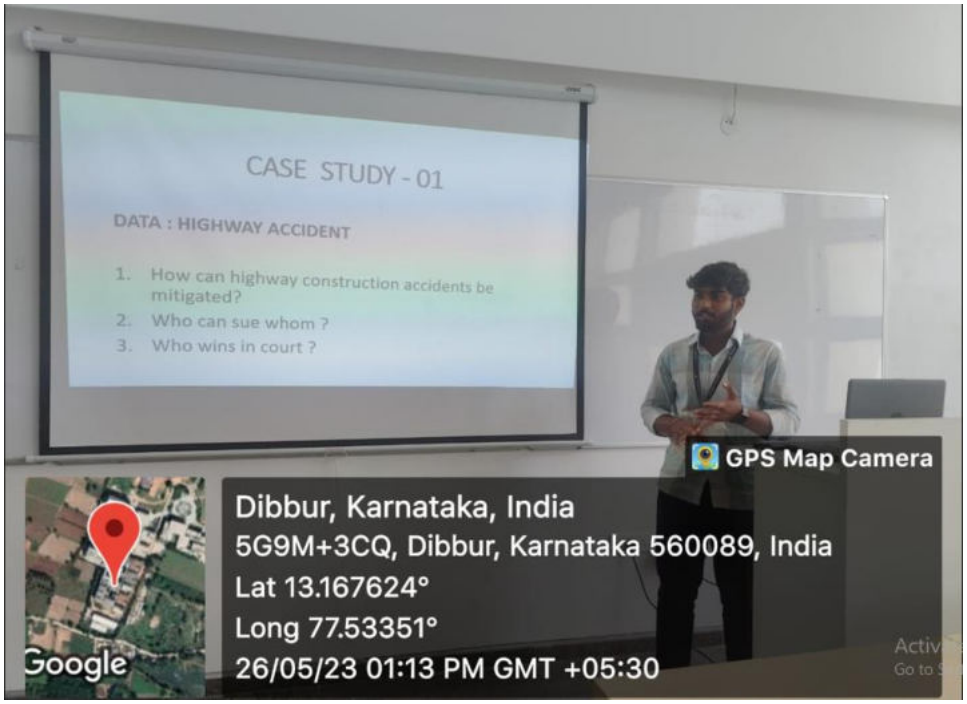

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CASE STUDY ON

'COMPROMISE IN QUALITY'

This project includes new classrooms and training workshops for the carpenter' union apprentices. The general contractor has bid the project lump sum and is approximately 90% through the schedule. Gypsum wallboard (GWB) is being taped and finish material begin to arrive on the job. On a recent walk-through, the owner and the design teams realize that several items are not exactly as they had anticipated. The gray carpet is actually black. The plywood wainscot in the ware- house area is CDX (construction) grade, not AC (finish) grade.

The design-build sanitary waste pipe in the ceiling space between the two floor is plastic and not cast iron. The pipe minimally meets code and will be noisy. The gates on the fence are swinging and not rolling. The interior wood trim is hemlock and not oak. There are many other examples of these types of surprises. The contract requirement for preparing submittals was generic, and although it did list a few items to be submit- ted, it did not list everything. The architect and project owner acknowledge that there were conflicts in the documents. The contractor has chosen the least expense- ive materials wherever possible, and is now basing their argument on document inconsistency.

PROBLEM STATEMENT:

MIS-MATCH OF MATERIALS

AND THEIR QUALITIES WHILE EXPORTED FOR CONSTRUCTION

PROBLEM CAN BE SOLVED BY:

- Details Lack of communication between the project manager and architect

Signature of Instructor In-Charge

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SCHOOL OF ENGINEERING
DEPARTMENT OF CIVIL ENGINEERING

Year: 2022-2023 **Semester: IV** **Section: 4-CIV-1**

Course Code: CIV3044 **Course Name:** E Governance

Type of Skill: Skill Development **Type of Activity:** Participative Learning

Instructor in Charge: Mr. Dayalan J **Instructor for Section:** Mr. Dayalan J

Details about the activity: Students were asked to present on recent initiatives taken by GoI in implementation of e-governance. Suggested topics for presentation were circulated to students and students were asked to choose topics of their choice to present on a topic as a group of 3 to 4 students. The seminar presentation activity by students focuses on Skill Development through participative learning.

Topic of Activity: Initiatives taken by Government of India in implementation of e-governance.

Details of the students and topics presented by students along with schedule is presented below:

Sl. No.	Student ID No	Name	Topic	Date & Day
1	20211CIV0019	SANKETH KUMAR K N	Models of E-Governance Implementation	09/03/2023 & Thursday
2	20211CIV0026	JEEVAN AG		
3	20211CIV0037	GURU TEJAS K S		
4	20211CIV0034	THIRUMALA NAIK V		
5	20211CIS0002	ATTAL THAPA C	e-Kranti : National e-governance plan 2.0	16/03/2023 & Thursday
6	20211CIV0014	NIRAJ KUMAR MALUWA		
7	20211CIV0022	NIKHIL KUMAR		
8	20211CIS0001	MOHAMMED AZHAR AHMED		

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9	20211CIV0007	BHUMIKA M	e-Governance Project financing	11/05/2023 & Thursday
10	20221LCV0005	PRAGATI PATIL		
11	20211CIV0006	NITHIN K	Common Service Station	18/05/2023 & Thursday
12	20211CIV0012	CHINNU K R		
13	20211CIV0021	BHOOMAN PRADEEP		

Sample Slides and Geo-tagged from Student Seminar Presentations

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The Broadcasting Model

The model is based on dissemination, broadcasting of useful Governance information and it will also provide people with correct information. Critical Flow model- The model is based on disseminating, channelling information of critical value to the targeted audience or into the wider public domain.

e-Kranti : National eGovernance Plan 2.0

Department of Electronics
and Information Technology,
Government of India

e-Kranti : National eGovernance Plan 2.0

Presented by

20211CIS0002	ATTAL THAPA C	4 CIV
20211CIV0014	NIRAJ KUMAR MALUWA	4 CIV
20211CIV0022	NIKHIL KUMAR	4 CIV
20211CIS0001	MOHAMMED AZHAR AHMED	4 CIV

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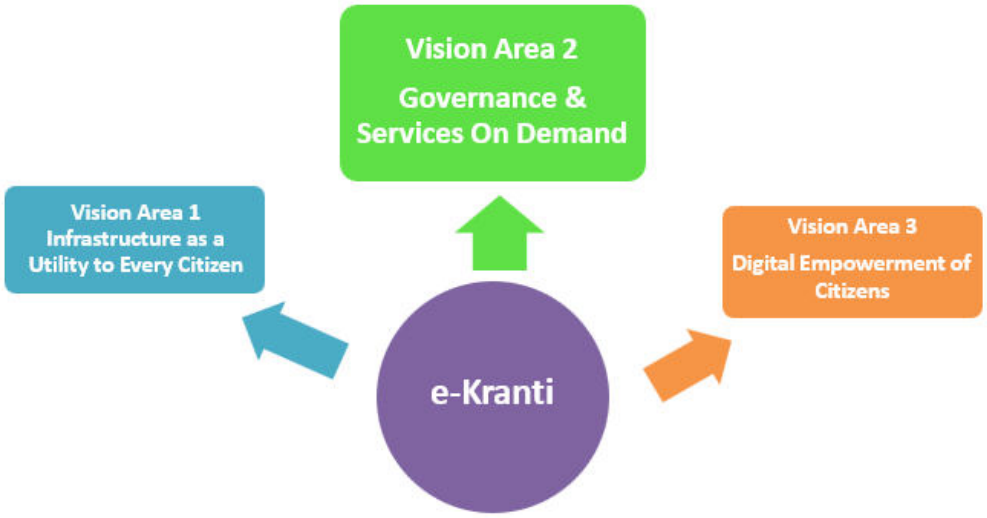
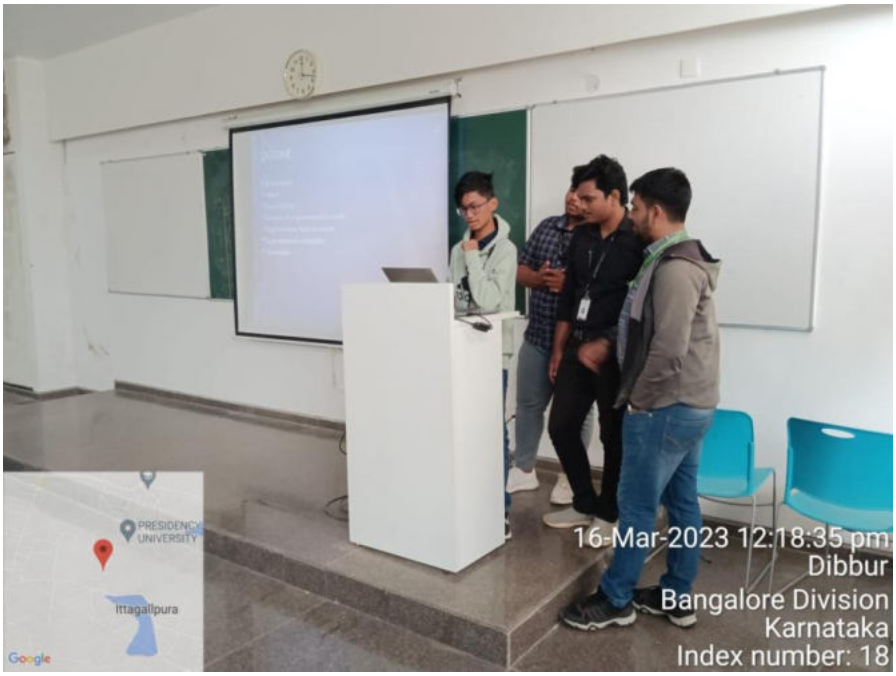
e-Kranti : National eGovernance Plan 2.0

Digital India and e-Kranti





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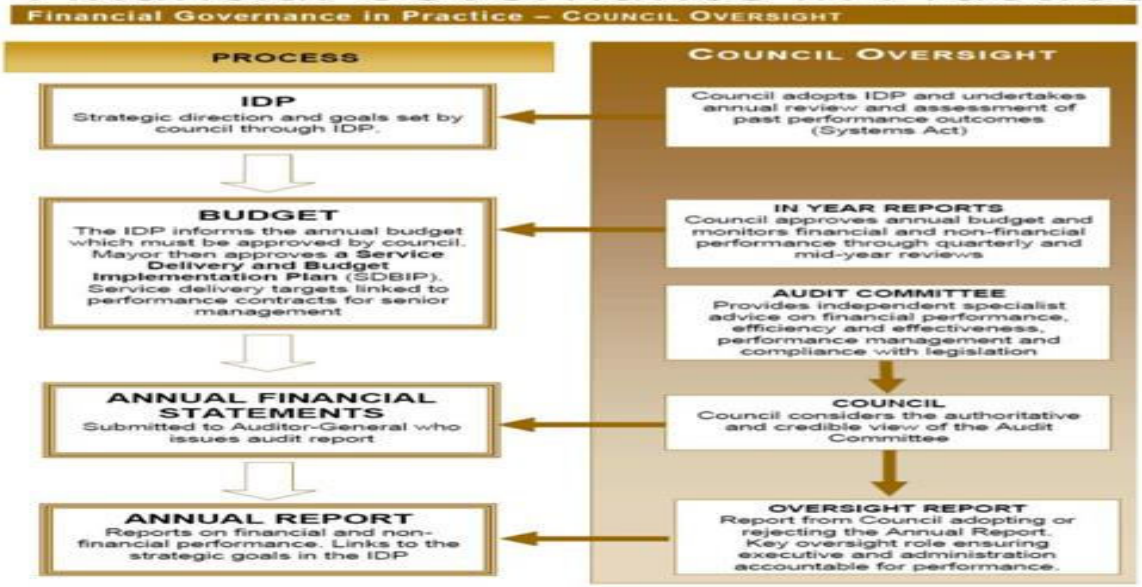
Financial Governance in Practice



Common Service center (CSC)

Presented by

20211CIV0006	NITHIN K	4CIV1
20211CIV0012	CHINNU K R	4CIV1
20211CIV0021	BHOOMAN PRADEEP	4CIV1

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Objective:

- The scope of the program is to cover maximum Government services.
- provide all high quality and cost effective e-Governance services under one umbrella through the use of ICT.
- A highlight of the CSCs is that it will offer web-enabled e-governance services in rural areas, including application forms, certificates, and utility payments such as electricity, telephone and water bills.

Signature of Instructor In-Charge

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