

SRI VENKATESWARA COLLEGE OF ENGINEERING DEPARTMENT OF CIVIL ENGINEERING



Report of Webinar on

"GROUND IMPROVEMENT BY COMPACTION AND REPLACEMENT METHODS & FINITE ELEMENT ANALYSIS"

Organised in association with

Civil Engineering Association (CEA)



27.11.2021

Coordinator

Mr. S. Diravia Balan Asst Prof /Civil Engg. Convenor

Dr. R. Kumutha HoD / Civil Engg.



SRI VENKATESWARA COLLEGE OF ENGINEERING

(An Autonomous Institution affiliated to Anna University, Chennai) Pennalur, Sriperumbudur Tk $-602\ 117$



DEPARTMENT OF CVIL ENGINEERING

Report of the Webinar on "Ground Improvement by Compaction and Replacement Methods & Finite Element Analysis"

Date : Saturday, 27 November 2021

Time : 01.00 PM to 03.00 PM

Mode : Online through Google Meet

Meeting Link: https://meet.google.com/zdm-yved-aje

Speaker

Ms. Sandhiya C

Prime Minister's Research Fellow

Geotechnical Division

Department of Civil Engineering,

Indian Institute of Technology- Madras (IITM)

Mr. Gaurav Chandra Bridhani

Prime Minister's Research Fellow

Geotechnical Division

Department of Civil Engineering,

Indian Institute of Technology- Madras (IITM)

Convenor & Organizing Secretary

Dr. R. Kumutha, Professor & Head/Civil Engineering

Coordinator

Mr. S. Diravia Balan, Assistant Professor/Civil Engineering.

Target Audience: Students and Faculty members

Number of Participants benefited: 70

UG Students : 68 Faculty : 02

Total No of Internal Participants – 70

BROCHURE



SRI VENKATESWARA COLLEGE OF ENGINEERING

(An Autonomous Institution – Affiliated to Anna University, Chennai)

Pennalur, Sriperumbudur Tk – 602 117, Tamil Nadu





Department of Civil Engineering

Cordially invites you for a Webinar on

Ground Improvement by Compaction and Replacement Methods 27th November 2021 1 pm – 2 pm



Ms. Sandhiya C
Prime Minister's Research Fellow
Geotechnical Division
Department of Civil Engineering
Indian Institute of Technology Madras

Finite Element Analysis 27th November 2021 2 pm – 3 pm



Mr. Gaurav Chandra Bridhani
Prime Minister's Research Fellow
Structural Division
Department of Civil Engineering
Indian Institute of Technology Madras

ALL ARE WELCOME

Venue : Google Meet https://meet.google.com/zdm-yved-aje

Coordinator
Mr. S. Diravia Balan,
AP/Civil Engg.

Convenor

Dr. R. Kumutha

HoD / Civil Engg.



svce.ac.in

PROFILE OF THE SPEAKER

Ms.Sandhiya C currently pursing Doctor of Philosophy in Geotechnical Division, Indian Institute of Science and Technology-Madras (IITM). She got selected for the Prime Minister Research Fellowship, offered by Government of India. She has 4 years of Teaching Experience in Sri Venkateswara College of Engineering, Sriperumbudur and 1 year industrial experience in Total Environment Building Systems Private Limited Bangalore.

Mr.Gaurav Chandra Bridhani currently pursing Doctor of Philosophy in Structural Engineering Division, Indian Institute of Science and Technology-Madras)IITM). He got selected for the Prime Minister Research Fellowship, offered by Government of India. He has worked in Graphic Era Hill University, Bhimtal and GLA University Mathura. His research interest are Finite Element Analysis, Messless Methods, mechanics of deformable bodies and Optimization Techniques.

BRIEF REPORT OF THE WEBINAR

Mr. S. Diravia Balan, Assistant Professor, Department of Civil Engineering, Sri Venkateswara College of Engineering has delivered the welcome address and introduced the speaker to all the participants.

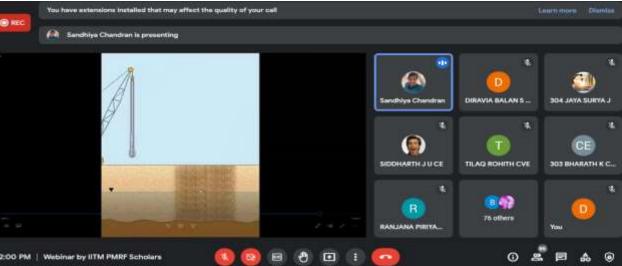
Ms.Sandhiya C welcomed the gathering and gave a brief overview Ground Improvement Techniques. The various ground improvement by Compaction methods like Mechanical, Hydraulic, Physical and Chemical methods were explained in detailed with examples. Next, the various ground improvement by replacement methods like granular columns, injecting air, driving steel case and dropping a tamper to penetrate into the ground were explained with suitable animated videos for better understanding. The speaker concluded the session with applications and discussed on the queries from the participants.

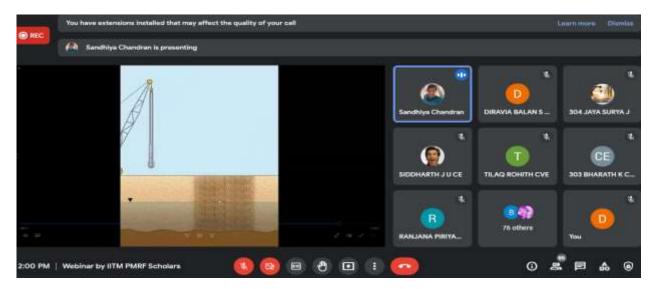
Mr.Gaurav Chandra Bridhani welcomed the gathering and explained about the basics of the Finite Element Analysis. The Initial Value and Boundary Value problems concepts were explained in detailed manner. The session was concluded with the application of Finite Element method in various analysis software.

The session was interactive, and the questions raised by the participants were answered by the speaker. The session ended with a vote of thanks delivered by Mr. S. Diravia Balan, Assistant Professor, Department of Civil Engineering. The participants also had appreciated the webinar.

SNAPSHOTS OF THE WEBINAR







LIST OF PARTICIPANTS

S.No	NAME OF THE STUDENT	NAME OF THE INSTITUTION	YEAR OF STUDY
1	PRAVEEN KUMAR D	SRI VENKATESWARA COLLEGE OF ENGINEERING	SECOND YEAR
2	MOHAMMAD SALMAAN SHARIFF K N	SRI VENKATESWARA COLLEGE OF ENGINEERING	SECOND YEAR
3	DHANUSH KANNAN L	SRI VENKATESWARA COLLEGE OF ENGINEERING	SECOND YEAR
4	SYED AFRIDEEN.M	SRI VENKATESWARA COLLEGE OF ENGINEERING	SECOND YEAR
5	ZAAHIR SHA S	SRI VENKATESWARA COLLEGE OF ENGINEERING	SECOND YEAR
6	MONICA.V	SRI VENKATESWARA COLLEGE OF ENGINEERING	SECOND YEAR
7	BARATHVAJ.R	SRI VENKATESWARA COLLEGE OF ENGINEERING	SECOND YEAR
8	CHANDRAVASAN	SRI VENKATESWARA COLLEGE OF ENGINEERING	SECOND YEAR
9	AURUDRA ADISESHAIAH KRISHNA	SRI VENKATESWARA COLLEGE OF ENGINEERING	SECOND YEAR
10	LALEETH KUMAR D	SRI VENKATESWARA COLLEGE OF ENGINEERING	THIRD YEAR
11	RANJANA PRIYADARSHINI	SRI VENKATESWARA COLLEGE OF ENGINEERING	THIRD YEAR
12	KAVINSELVA P	SRI VENKATESWARA COLLEGE OF ENGINEERING	THIRD YEAR
13	V.ROHIT	SRI VENKATESWARA COLLEGE OF ENGINEERING	THIRD YEAR
14	MURALI MANOGAR JOSHI S	SRI VENKATESWARA COLLEGE OF ENGINEERING	THIRD YEAR
15	S.GOWTHAM	SRI VENKATESWARA COLLEGE OF ENGINEERING	THIRD YEAR
16	KAVINMALAR K	SRI VENKATESWARA COLLEGE OF ENGINEERING	THIRD YEAR
17	RAMANAN.B.B	SRI VENKATESWARA COLLEGE OF ENGINEERING	THIRD YEAR
18	VIVEDHITHA VARSHINI A G	SRI VENKATESWARA COLLEGE OF ENGINEERING	THIRD YEAR
19	MOHAMED SHAFEEN	SRI VENKATESWARA COLLEGE OF ENGINEERING	THIRD YEAR
20	SIDDHARTH J U	SRI VENKATESWARA COLLEGE OF ENGINEERING	THIRD YEAR
21	BHARANIDHARAN. B	SRI VENKATESWARA COLLEGE	THIRD YEAR

S.No	NAME OF THE STUDENT	NAME OF THE INSTITUTION	YEAR OF STUDY
		OF ENGINEERING	
22	J.HARI PRAKASH	SRI VENKATESWARA COLLEGE OF ENGINEERING	THIRD YEAR
23	HEMALATHA R	SRI VENKATESWARA COLLEGE OF ENGINEERING	THIRD YEAR
24	PADMANABAN N	SRI VENKATESWARA COLLEGE OF ENGINEERING	THIRD YEAR
25	GOGULA CHEZHIYAN.N	SRI VENKATESWARA COLLEGE OF ENGINEERING	THIRD YEAR
26	V.HARIHARAN	SRI VENKATESWARA COLLEGE OF ENGINEERING	THIRD YEAR
27	GURU PRAKASH K	SRI VENKATESWARA COLLEGE OF ENGINEERING	THIRD YEAR
28	KEERTHI VAASAN R	SRI VENKATESWARA COLLEGE OF ENGINEERING	THIRD YEAR
29	ABISHEK	SRI VENKATESWARA COLLEGE OF ENGINEERING	THIRD YEAR
30	AKRIITHA K	SRI VENKATESWARA COLLEGE OF ENGINEERING	THIRD YEAR
31	G.HARSHAVARTHANI	SRI VENKATESWARA COLLEGE OF ENGINEERING	THIRD YEAR
32	G.SARAVANAPANDI	SRI VENKATESWARA COLLEGE OF ENGINEERING	THIRD YEAR
33	A.VIGNESH	SRI VENKATESWARA COLLEGE OF ENGINEERING	THIRD YEAR
34	S.PRIYADHARSHANI	SRI VENKATESWARA COLLEGE OF ENGINEERING	THIRD YEAR
35	T LALITH KUMAR	SRI VENKATESWARA COLLEGE OF ENGINEERING	THIRD YEAR
36	JP YOKESH	SRI VENKATESWARA COLLEGE OF ENGINEERING	THIRD YEAR
37	DHILIP RAJ	SRI VENKATESWARA COLLEGE OF ENGINEERING	THIRD YEAR
38	AAKASH M	SRI VENKATESWARA COLLEGE OF ENGINEERING	FINAL YEAR
39	PERSHIYA D	SRI VENKATESWARA COLLEGE OF ENGINEERING	FINAL YEAR
40	SRIRAM.L	SRI VENKATESWARA COLLEGE OF ENGINEERING	FINAL YEAR
41	HEMALATHA V	SRI VENKATESWARA COLLEGE OF ENGINEERING	FINAL YEAR
42	SENTHAZHAL T P	SRI VENKATESWARA COLLEGE OF ENGINEERING	FINAL YEAR

S.No	NAME OF THE STUDENT	NAME OF THE INSTITUTION	YEAR OF STUDY
43	KIRAN KUMAR PON	SRI VENKATESWARA COLLEGE OF ENGINEERING	FINAL YEAR
44	NAVEEN S	SRI VENKATESWARA COLLEGE OF ENGINEERING	FINAL YEAR
45	NANCY.H	SRI VENKATESWARA COLLEGE OF ENGINEERING	FINAL YEAR
46	LOGESHWARI R	SRI VENKATESWARA COLLEGE OF ENGINEERING	FINAL YEAR
47	PON PRADEEP R	SRI VENKATESWARA COLLEGE OF ENGINEERING	FINAL YEAR
48	T M TILAQ ROHITH	SRI VENKATESWARA COLLEGE OF ENGINEERING	FINAL YEAR
49	VENGADESH.V	SRI VENKATESWARA COLLEGE OF ENGINEERING	FINAL YEAR
50	THIYAGESH L	SRI VENKATESWARA COLLEGE OF ENGINEERING	FINAL YEAR
51	SANTHOSH RAJAN S.M.	SRI VENKATESWARA COLLEGE OF ENGINEERING	FINAL YEAR
52	BALAMURUGAN. SP	SRI VENKATESWARA COLLEGE OF ENGINEERING	FINAL YEAR
53	ABISHEK MURALI	SRI VENKATESWARA COLLEGE OF ENGINEERING	FINAL YEAR
54	P V KARTHICK KUMAR	SRI VENKATESWARA COLLEGE OF ENGINEERING	FINAL YEAR
55	GOKUL R	SRI VENKATESWARA COLLEGE OF ENGINEERING	FINAL YEAR
56	KIRUTHIGA S	SRI VENKATESWARA COLLEGE OF ENGINEERING	FINAL YEAR
57	DINESH BABU K	SRI VENKATESWARA COLLEGE OF ENGINEERING	FINAL YEAR
58	DHARSHINI G	SRI VENKATESWARA COLLEGE OF ENGINEERING	FINAL YEAR
59	SRIKIRUTHIGA S	SRI VENKATESWARA COLLEGE OF ENGINEERING	FINAL YEAR
60	RAKESH S	SRI VENKATESWARA COLLEGE OF ENGINEERING	FINAL YEAR
61	AJAY KRISHNAMURTHY	SRI VENKATESWARA COLLEGE OF ENGINEERING	FINAL YEAR
62	SHARADHA LAKSHMI V S	SRI VENKATESWARA COLLEGE OF ENGINEERING	FINAL YEAR
63	MOHAN KRISHNA P R	SRI VENKATESWARA COLLEGE OF ENGINEERING	FINAL YEAR
64	BHUVANESWAR B	SRI VENKATESWARA COLLEGE OF ENGINEERING	FINAL YEAR

S.No	NAME OF THE STUDENT	NAME OF THE INSTITUTION	YEAR OF STUDY
65	SAKITHIYAN S	SRI VENKATESWARA COLLEGE OF ENGINEERING	FINAL YEAR
66	ANANDARAJAN.P.V	SRI VENKATESWARA COLLEGE OF ENGINEERING	FINAL YEAR
67	CHARAN N	SRI VENKATESWARA COLLEGE OF ENGINEERING	FINAL YEAR
68	RAJARAJAN.V	SRI VENKATESWARA COLLEGE OF ENGINEERING	FINAL YEAR
69	HARISWARAN S	SRI VENKATESWARA COLLEGE OF ENGINEERING	FACULTY
70	VIJAY VIGNESH A	SRI VENKATESWARA COLLEGE OF ENGINEERING	FACULTY

 $\textbf{Feedback Link:} \ https://forms.gle/ZAqdhoddL4q2wiCS6$

WEBINAR ON GROUND IMPROVEMENT AND FEA - Civil Department - SVCE

Date: 27th November 2021 Time: 1:00 pm to 3:00 pm Speaker Name: Ms.Sandhiya C and Mr.Gaurav Chandra Bridhani, PMRF Research Scholar, IIT-Madras Kindly provide your valuable feedback. * Required Prefix * Mark only one oval. Mr. Dr.) Ms.) Prof. Name of the Participant (as required in E-Certificate) * 2. 3. Name of the College * Email ID *

5.	Category *	
	Mark only one oval.	
	Second year student Third year student Final year student Faculty	
	Other:	
6.	Name of the Department *	
7.	Mobile number (Whatsapp) *	

8. Please rate your satisfaction with the content of the Lecture delivered by Ms. C Sandhiya by indicating your level of agreement or disagreement with each of the following statements. *

Mark only one oval per row.

	Strongly agree	Agree	Neutral	Disagree
The session delivered the information I expected to receive.				
The subject matter was presented effectively.				
The pace and duration of the webinar was satisfactory.				
The resource person is knowledgeable.				
The resource person presented the information in a clear and logical manner				
Sufficient time was given for interaction				
The webinar was well organized				
As a result of this webinar, I gained new knowledge				

9. Please rate your satisfaction with the content of the Lecture delivered by Mr. Gaurav Chandra Bridhani by indicating your level of agreement or disagreement with each of the following statements. *

Mark only one oval per row.

	Strongly agree	Agree	Neutral	Disagree
The session delivered the information I expected to receive.				
The subject matter was presented effectively.				
The pace and duration of the webinar was satisfactory.				
The resource person is knowledgeable.				
The resource person presented the information in a clear and logical manner				
Sufficient time was given for interaction				
The webinar was well organized				
As a result of this webinar, I gained new knowledge				

10.	Are you interested in attending such programs organised in future by the
	Department of Civil Engineering of SVCE *

Mark only one oval.

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No

11.	Additional Comments/Feedback *

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WEBINAR ON GROUND IMPROVEMENT AND FEA - Civil Department - SVCE

Date : 27th	November 2021
Time: 1:00 ¡	om to 3:00 pm

Speaker Name: Ms.Sandhiya C and Mr.Gaurav Chandra Bridhani,

PMRF Research Scholar,

IIT-Madras

Kindly provide your valuable feedback.

, , =,	
Category *	
Second year student	
Third year student	
Final year student	
Faculty	
Other:	
Name of the Department *	
Civil department	
Mobile number (Whatsapp) *
8925418684	

Please rate your satisfaction with the content of the Lecture delivered by Ms. C Sandhiya by indicating your level of agreement or disagreement with each of the following statements. *

	Strongly agree	Agree	Neutral	Disagree
The session delivered the information I expected to receive.		0	0	0
The subject matter was presented effectively.		0	\circ	0
The pace and duration of the webinar was satisfactory.		0		0
The resource person is knowledgeable.		0	0	0
The resource person presented the information in a clear and logical manner		0	0	0
Sufficient time was given for interaction	•	0	0	0
The webinar was well organized	•	0	0	0
As a result of this webinar, I gained new knowledge		0	0	0

Please rate your satisfaction with the content of the Lecture delivered by Mr. Gaurav Chandra Bridhani by indicating your level of agreement or disagreement with each of the following statements. *

	Strongly agree	Agree	Neutral	Disagree
The session delivered the information I expected to receive.		0	0	
The subject matter was presented effectively.		0	0	
The pace and duration of the webinar was satisfactory.		0	0	
The resource person is knowledgeable.		0	0	0
The resource person presented the information in a clear and logical manner		0	0	0
Sufficient time was given for interaction		0	0	0
The webinar was well organized		0	0	0
As a result of this webinar, I gained new knowledge				

Are you interested in attending such programs organised in future by the Department of Civil Engineering of SVCE *
Yes
O No
Additional Comments/Feedback *
No comments

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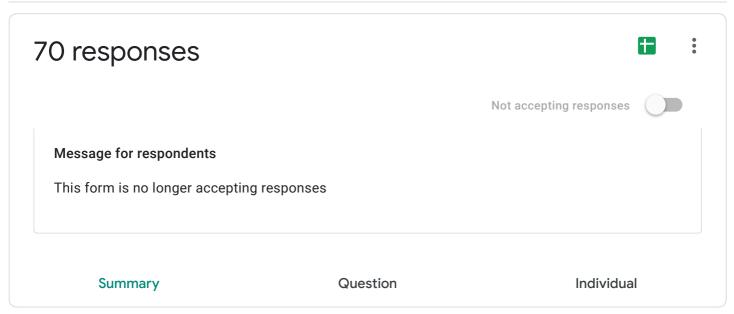


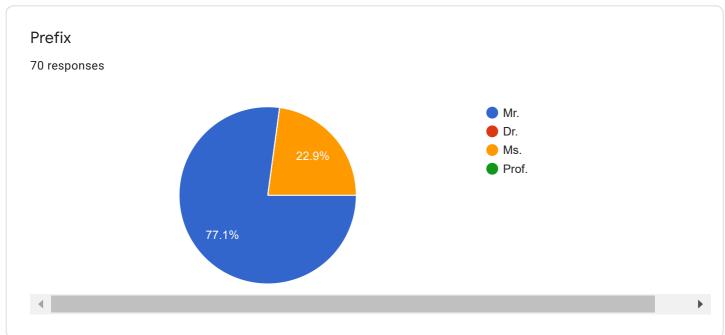




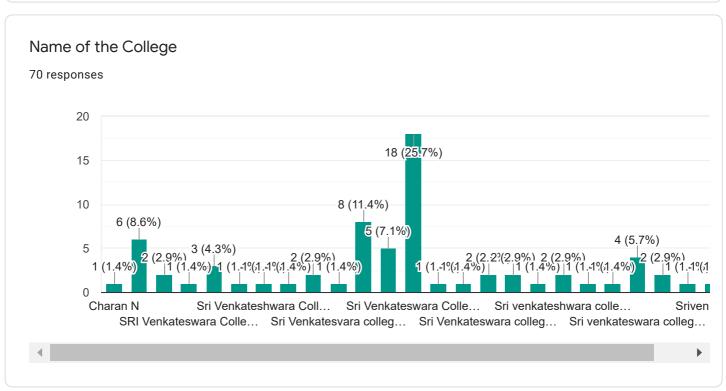
Webinar on Ground Improvement and FEM

Questions Responses 70 Settings

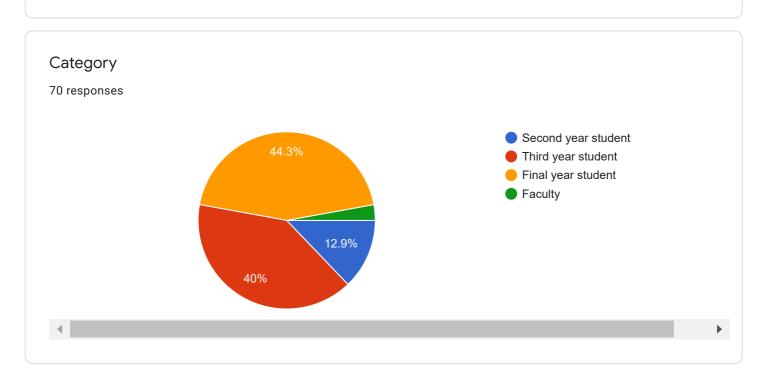


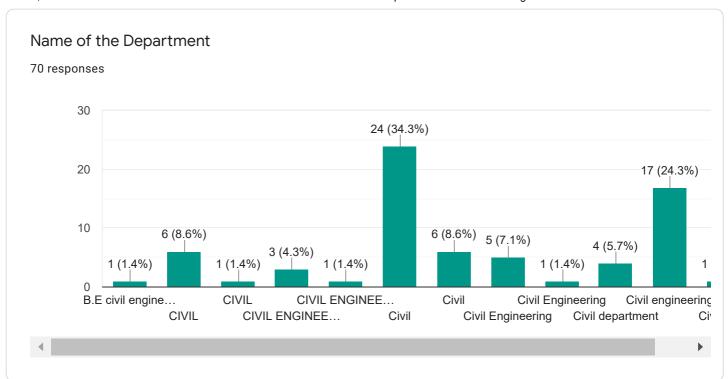


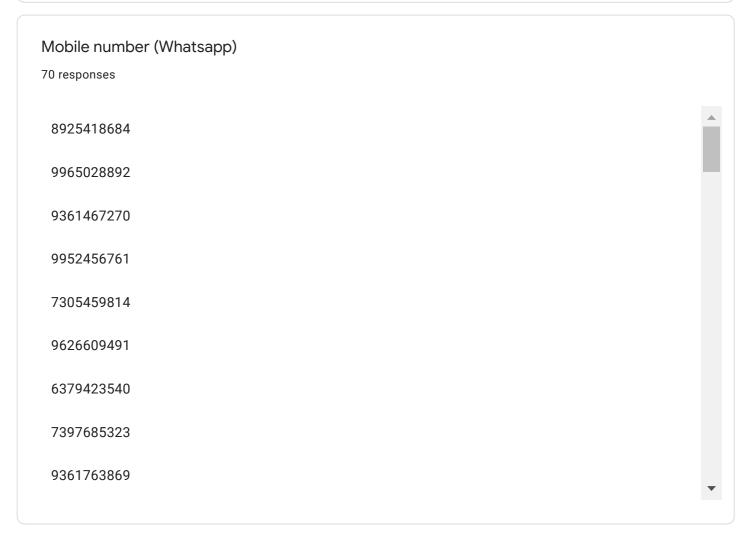


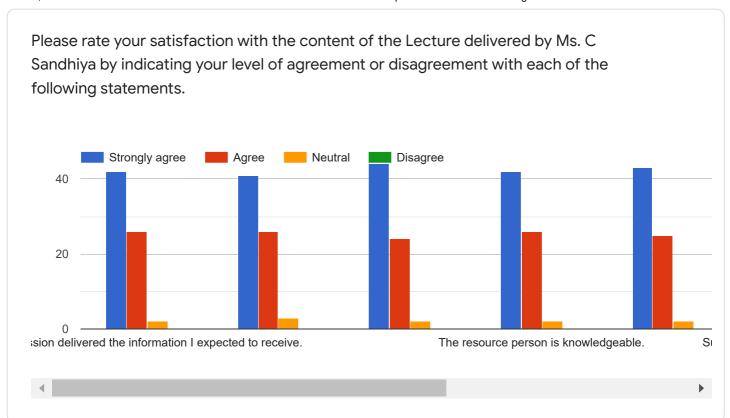


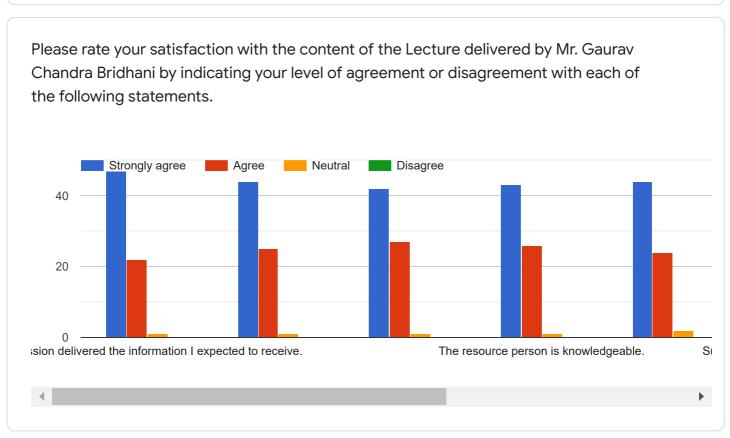
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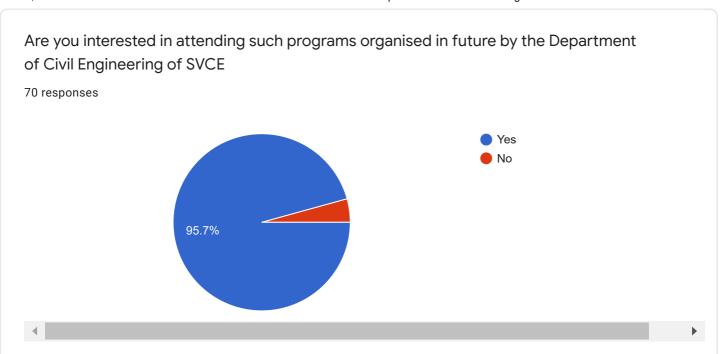


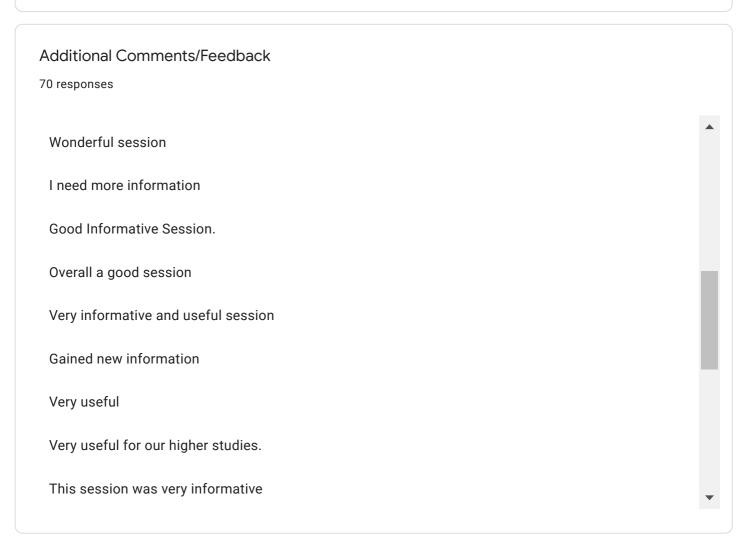














SRI VENKATESWARA COLLEGE OF ENGINEERING

FEEDBACK FROM THE SPEAKER - GUEST LECTURE

DEPARTMENT

: Civil Engineering

Name of the Speaker : C.SANDHIYA

Designation : PMRF Research Scholar

Institution/University/Organisation: IIT Madras

Mobile / E-mail : 9894975434/ sandhiyacivilian@gmail.com

Ground Improvement by Compaction and

Title of the Lecture : Replacement Methods & Finite Element

Analysis

Date : 27th November 2021

Time : 1 P.M to 2 P.M

Venue : Online- Google Meet Platform

Comments by the Speaker : The session was very interactive and the

students asked many questions.

Suggestions for improvement : NIL

Signature of the Speaker

C-20);

Signature of Coordinator

ASSISTANT PROFESSOR

Department of Civil Engineering

Srl Venkateswara College of Engineering

Pennalur, Sri Perumbudur, Chennal

Head of the Department
Department of Civil Engineering
Sri Venkaleswara College of Engineering
Sriperumbudur -602 117 INDIA

Signature of HOD



SRI VENKATESWARA COLLEGE OF ENGINEERING

FEEDBACK FROM THE SPEAKER - GUEST LECTURE

DEPARTMENT : CIVIL ENGINEERING

Name of the Speaker : Gaurav Chandra Bridhani

Designation : PMRF Research Scholar

Institution/University/Organisation: Indian Institute of Technology Madras,

Chennai

Mobile / E-mail : +91-9940337313 / gbridhani@gmail.com

Ground Improvement By Compaction and

Title of the Lecture : Replacement Methods & Finite Element

Analysis

Date : 27th November 2021

Time : 02:00 PM – 03:00 PM

Venue : Online- Google Meet Platform

Comments by the Speaker : The class students were attentive and

responsive. The students were able to grasp the concepts and appreciated the content of the webinar. The online session went smoothly. I thank Mr. S.Diravia Balan S for organizing

the event.

Suggestions for improvement : More number of such seminars can be

arranged for final year B.Tech. students to motivate and prepare them in FEM and other

Mechanics courses.

Signature of the Speaker

Signature of Coordinator

ASSISTANT PROFESSOR

Department of Civil Engineering
Srl Venkateswara College of Engineering
Pennalur, Sri Perumbudur, Chennai

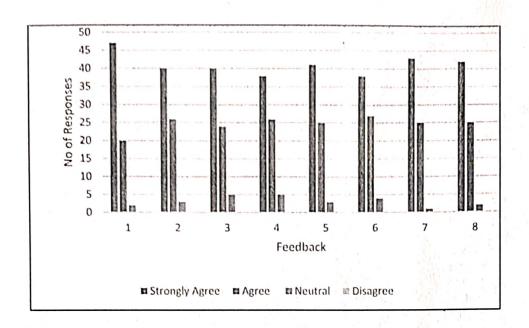
Signature of HOD

Head of the Department
Department of Civil Engineering
Sri Venkaleswara College of Engineering
Sriperumbudur -602 117 INCLUS

SUMMARY OF FEEDBACK

Total Number of respondents: 70

Feedback	Strongly Agree	Agree	Neutral	Disagree
The session delivered the information I expected to receive.	48	20	2	0
The subject matter was presented effectively.	41	26	3	0
The pace and duration of the webinar was satisfactory.	41	24	5	0
The resource person is knowledgeable.	39	26	5	0
The resource person presented the information in a clear and logical manner	42	25	3	0
Sufficient time was given for interaction	39	27	4	0
The webinar was well organized	44	25	1	0
As a result of this webinar, I gained new knowledge	43	25	2	0



Additional comments/feedback from participants:

- Very informative and motivating session for civil engineering students.
- This webinar gives an idea for choosing specialization in Higher studies.
- This webinar was really informative.

Prepared by

Mr. S. Diravia Balan (AP/Civil Engg.)
Coordinator

ASSISTANT PROFESSOR

Department of Civil Engineering

Srl Venkateswara College of Engineering

Pennatur, Sri Perumbudur, Chennai

Approved by

Dr.R.Kumutha (HoD/Civil Engg.)
Convenor & Organizing secretary

Head of the Department
Department of Civil Engineering
Sri Venkaleswara College of Engineering
Sriperumbudur -602 117 INDIA