



## SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul - Palani Highway, Dindigul - 624 002.

Phone: 0451-2448800-99 (100 Lines) Fax: 0451-2448855

Email: [ssmietdgl@gmail.com](mailto:ssmietdgl@gmail.com)

Website: [www.ssmiet.ac.in](http://www.ssmiet.ac.in)

### DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR: 2022 – 2023 (ODD SEMESTER)

#### REPORT

*on*

#### VALUE ADDED COURSE ON

#### NON-SEWERED SANITATION IN ACHIEVING

#### SWACHH BHARAT MISSION 2.0

Date : 10/8/2022 12/8/2022

Venue : Video Conference Hall

Course Co-ordinator : Dr.D.Hemalatha Vice Principal, WASH Institute.

Event Co-ordinators : Mrs.C.Merlin Rani & Mr.V.Praveen Jesuraj, AP/CIVIL

The Department of Civil Engineering had organized “Three Days Value Added Course on Non-Sewered Sanitation in Achieving Swachh Bharat Mission 2.0” for III & IV year students from 10/8/2022 to 12/8/2022. The Course was commenced with the inaugural function at 9:30a.m (Seminar Hall 1) on 10/8/2022 with Tamizh Thai Valthu, followed by Welcome address by Dr.G.Selvabharathi Mrs.C.Merlin Rani had introduced the Course coordinator and trainer to the gathering. The Course coordinator Dr.D.Hemalatha gave an Introduction about Non-Sewered Sanitation Public health sanitation-Nexus and Scope of NSS in Swachh Bharat Mission 2.0 and the trainer Ms.Vinitha had shared few points on Sanitation and the session was ended with National anthem at 10.45 a.m.

The students were asked to assemble at Video Conference hall at 11:00 a.m. and the first session was handled by Dr.D.Hemalatha.

The following topics were discussed in Technical session.

- Public health and sanitation Nexus
- Overview of Non-Sewered Sanitation (NSS)
- Scope of NSS in Swachh Bharat Mission 2.0
- Small scale Sanitation Systems in India
- Faecal sludge and septage Management – stake holders and Interventions

After this session, the student was refreshed with some activities.

In the technical session II on 11/08/2022, the following topics were discussed.

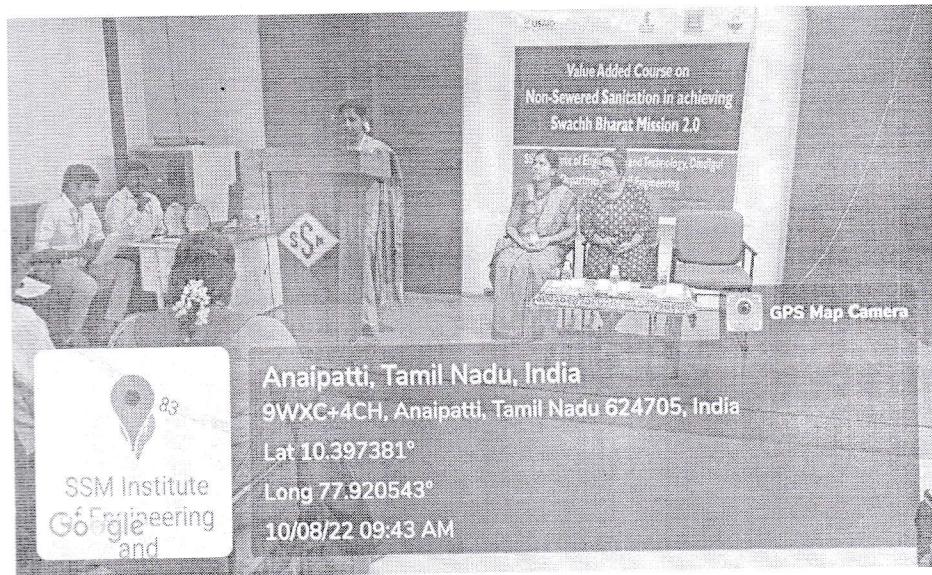
- Decentralized Waste water Treatment Systems
- FS containment Systems, Emptying and Transportation
- FS Treatment Technologies
- Resource recovery from Fecal sludge
- Gender Inclusive Sanitation

In this Session, students are divided into four groups, such as commissioner, FSTP operator, Truck operator, Health department and were given with a case study on “FS crisis in a city” and they were informed to give their views to solve this crisis. Students had actively participated in this activity and shared their own ideas on this issue.

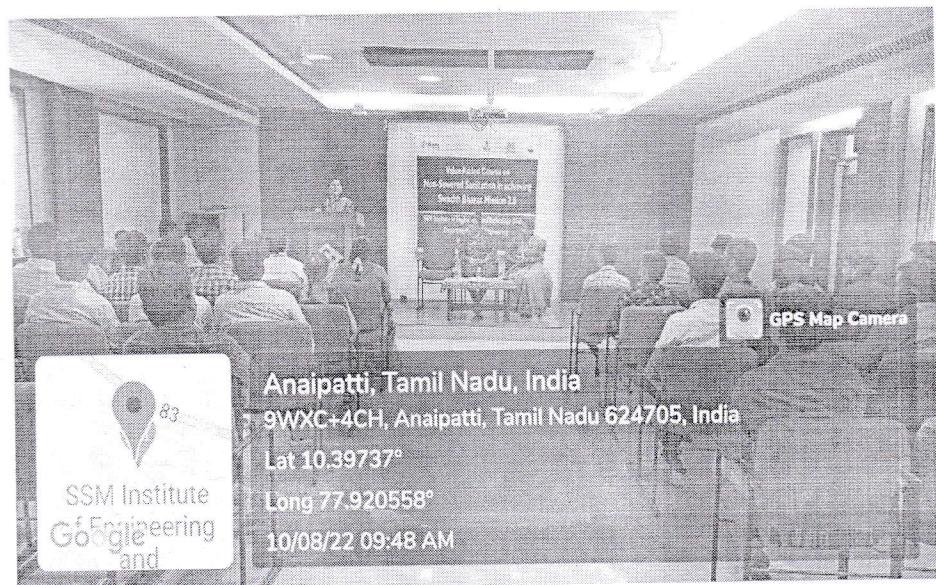
In technical Session III on 20/8/2022, students had visited the WASH institute at Rediyarchatram and the whole team of students were separated into 3 groups and they were demonstrated with the mobile sludge treatment unit , followed by chemical testing laboratory and viewed the various types of cost effective materials used for construction of toilets, septic tank models, sanitary napkin incinerators and they were explained with how to use the decomposed sludge and treated water for natural plants.

By this programme, the students came to know about the importance of Faecal Sludge disposal / treatment systems and also on Swachh Bharath Mission.

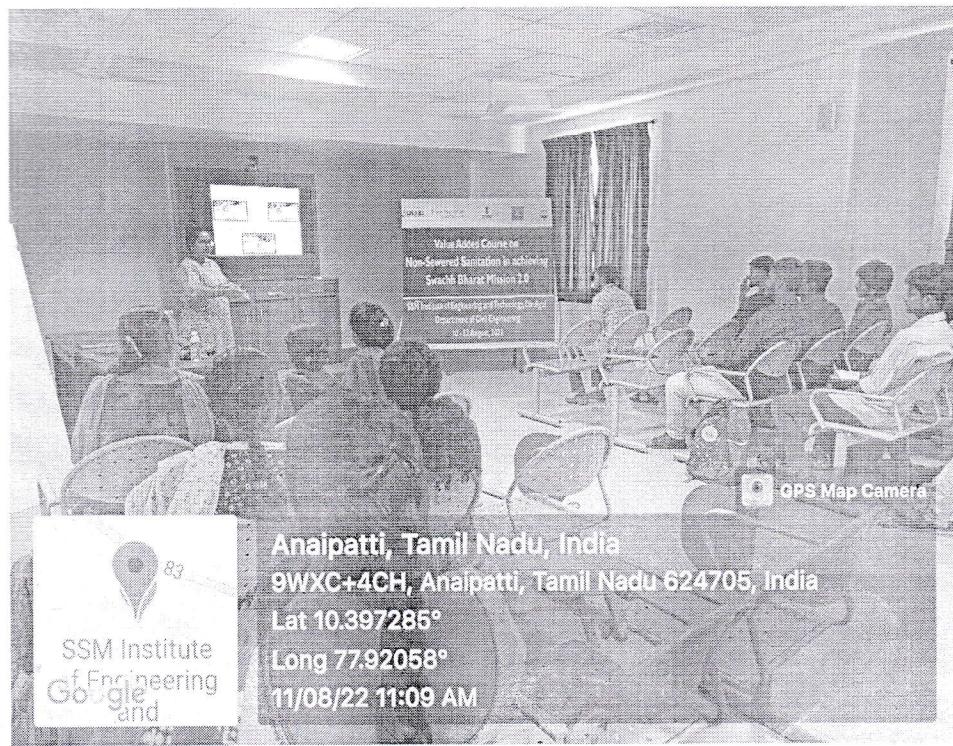
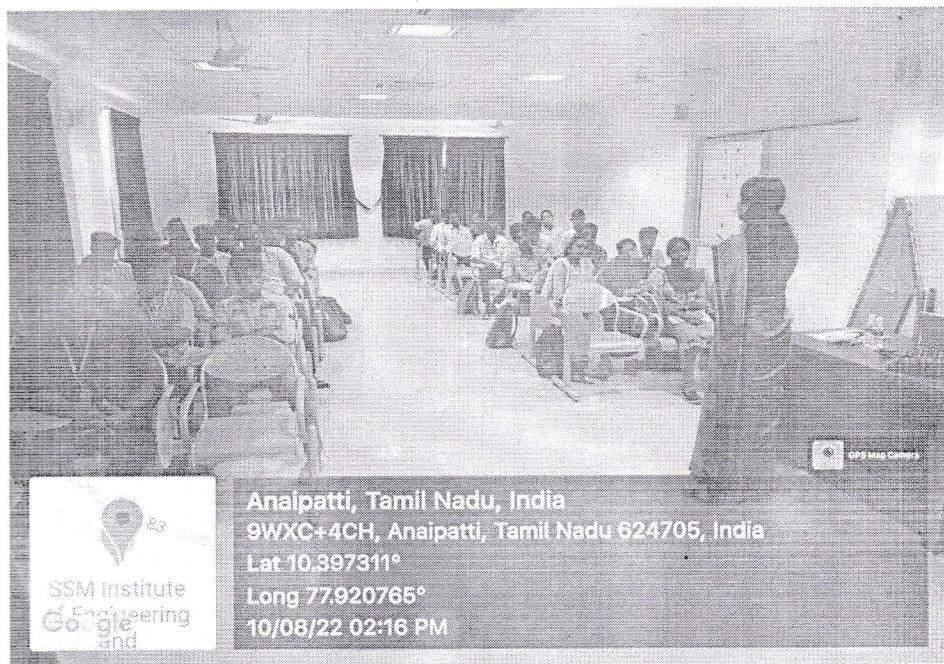
### Chief Guest Address at seminar Hall



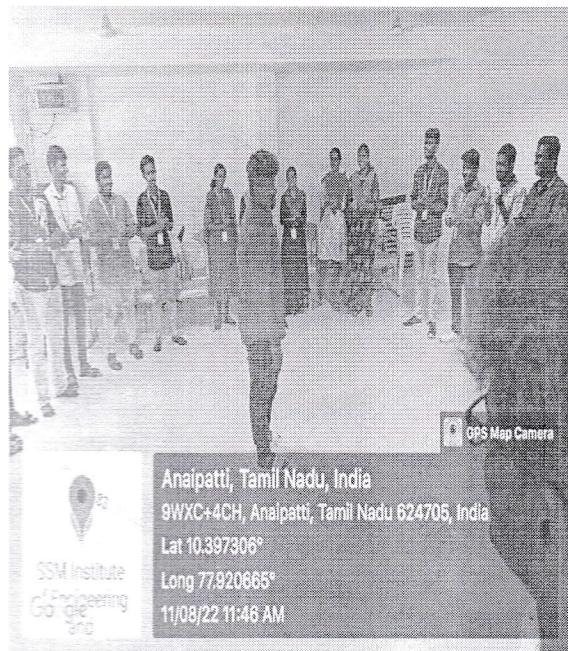
### Chief Guest Speech



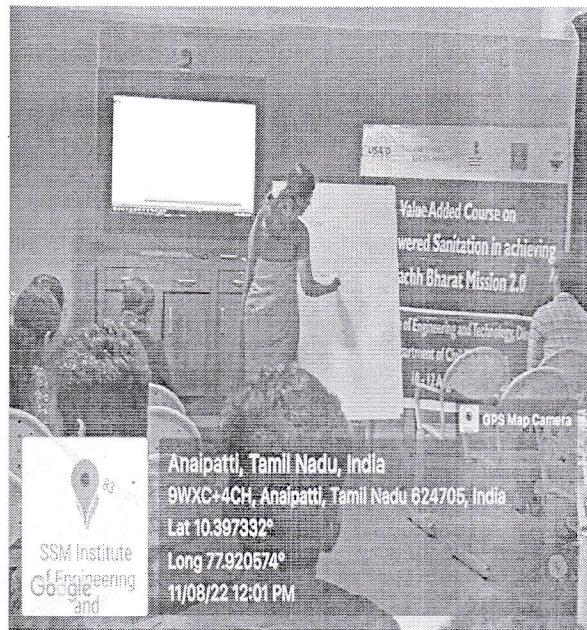
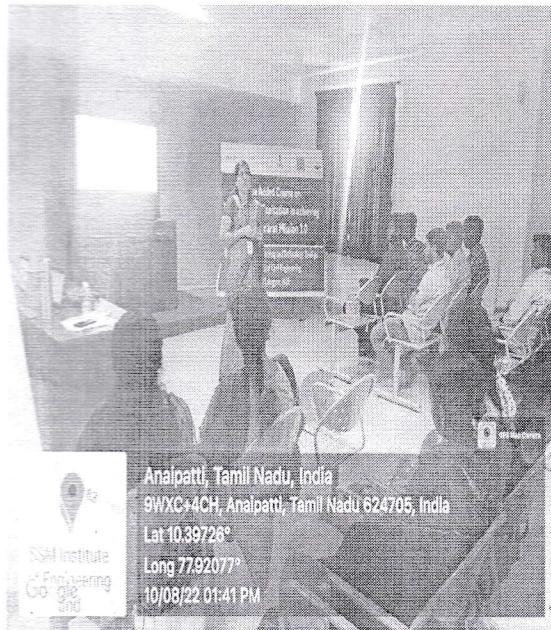
## Day 1 - Session at video conference Hall



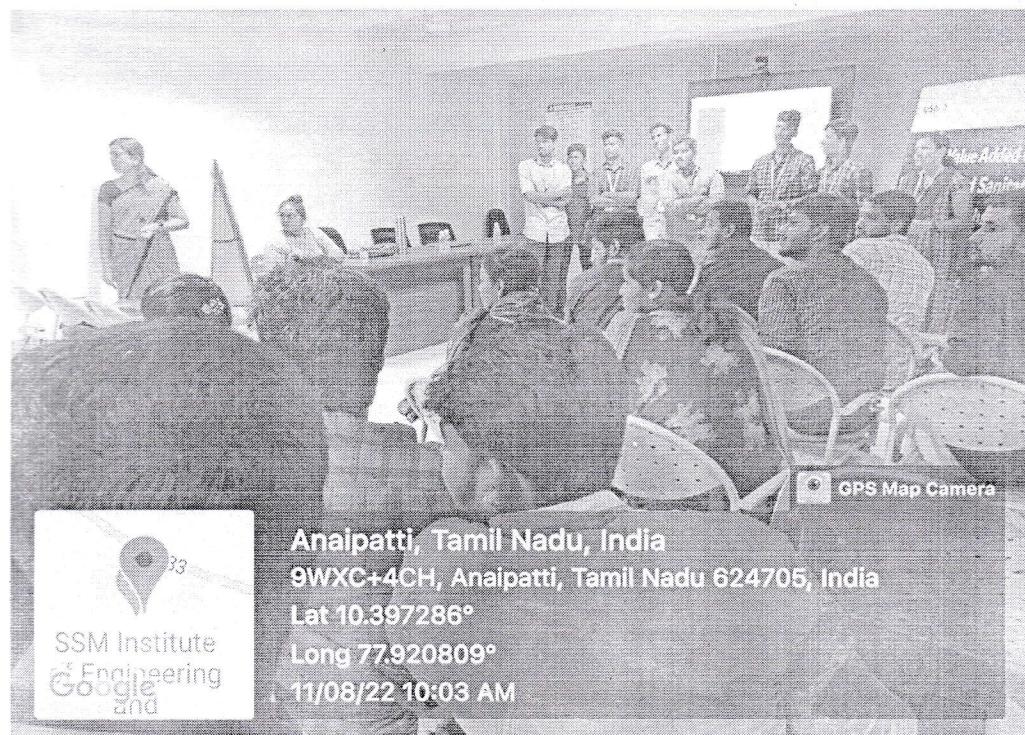
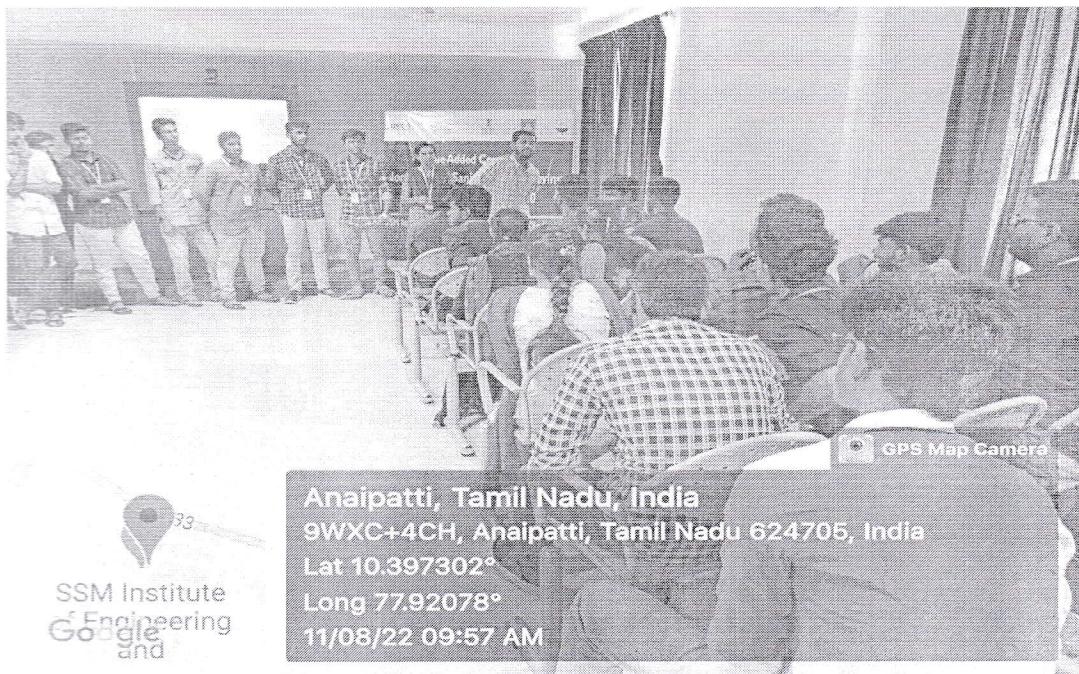
## Activities on 10/08/2022



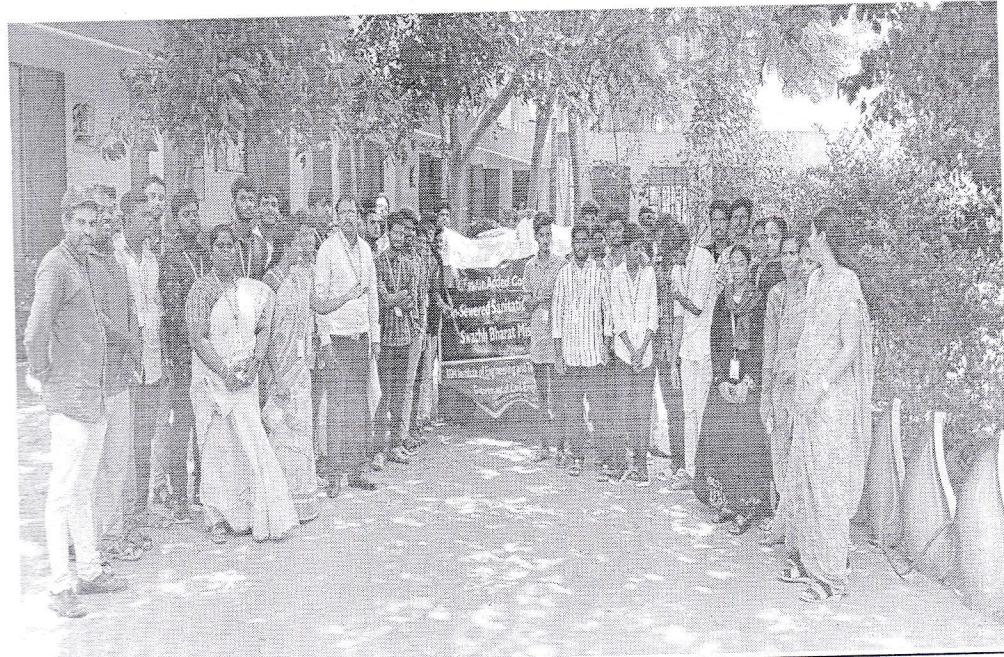
## Technical session



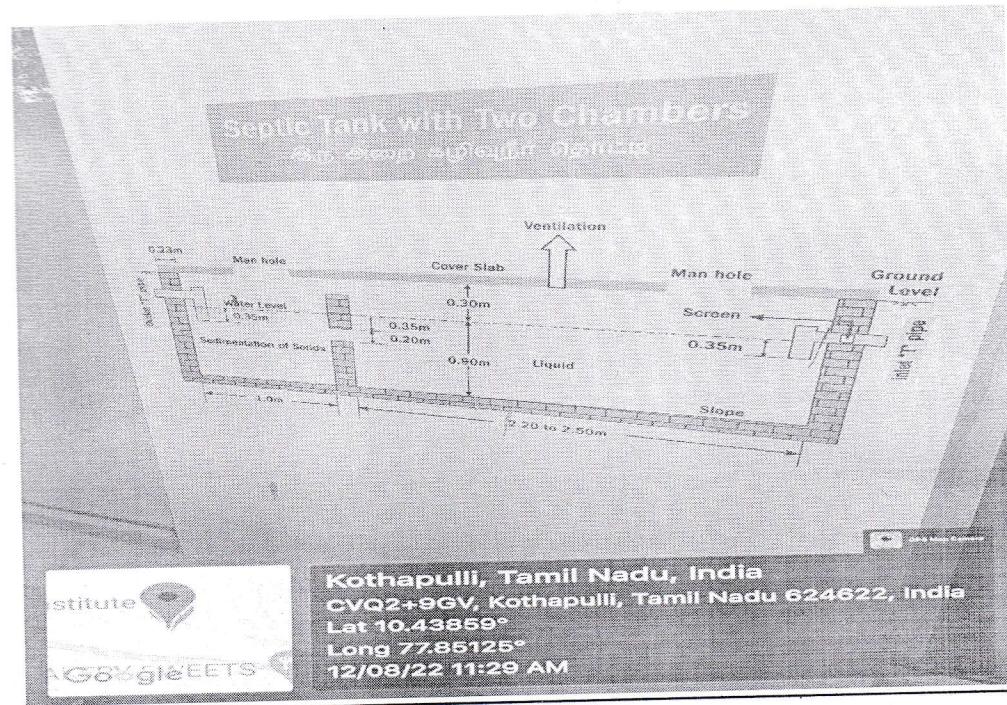
## Case studies Discussion on 11/08/2022



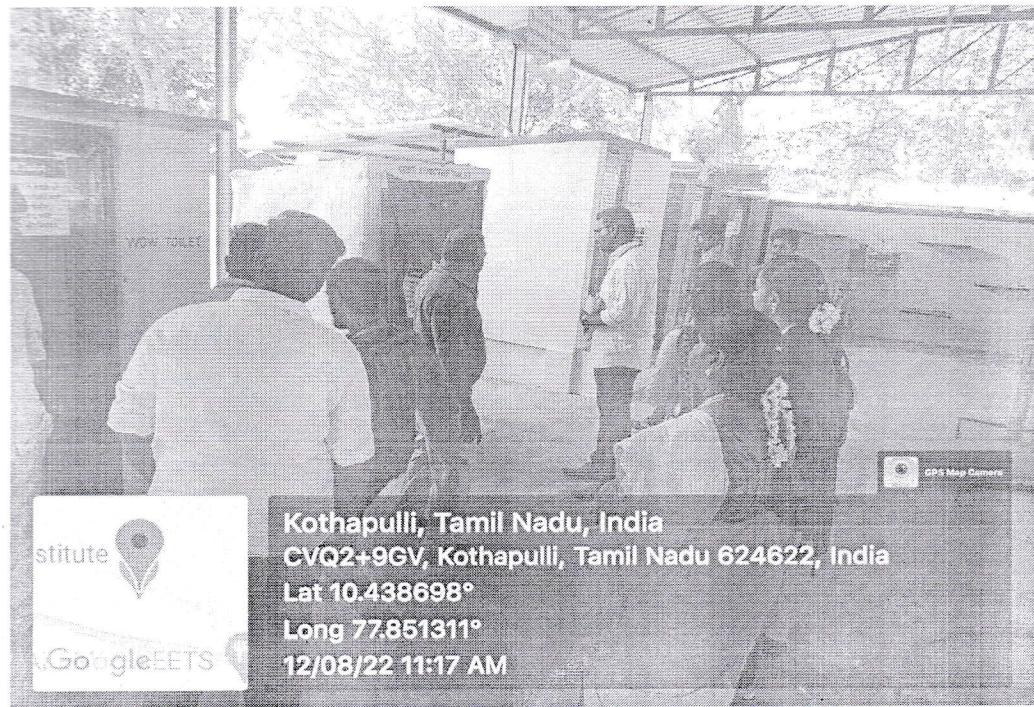
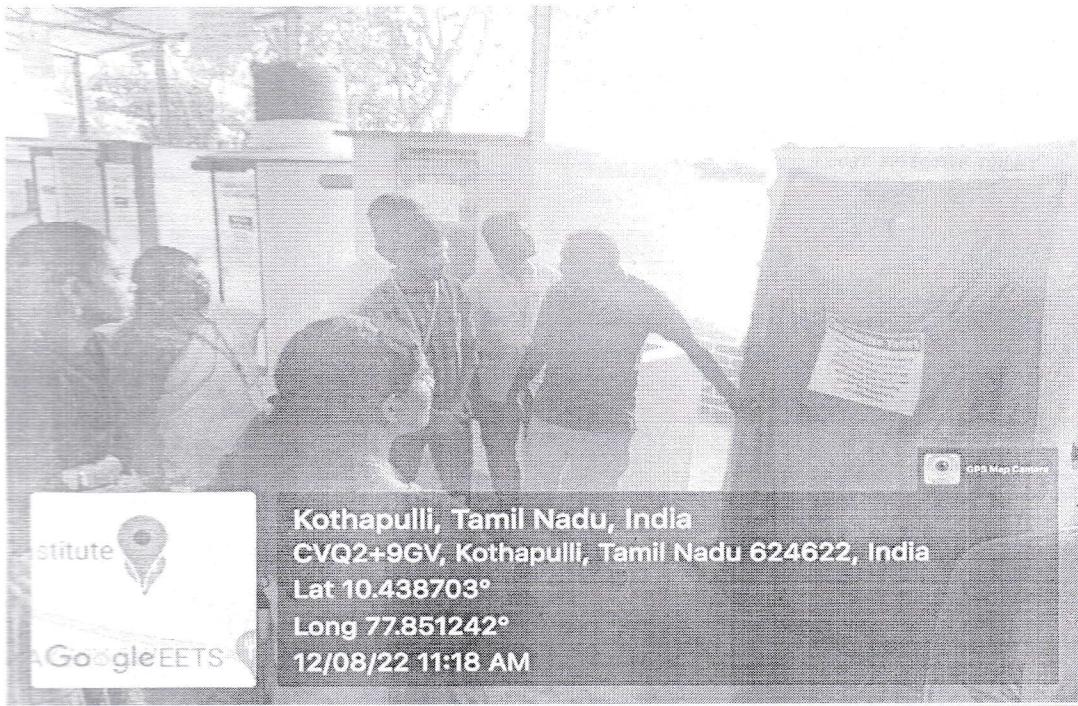
## Industrial Visit, WASH Institute, Rediyarchatram



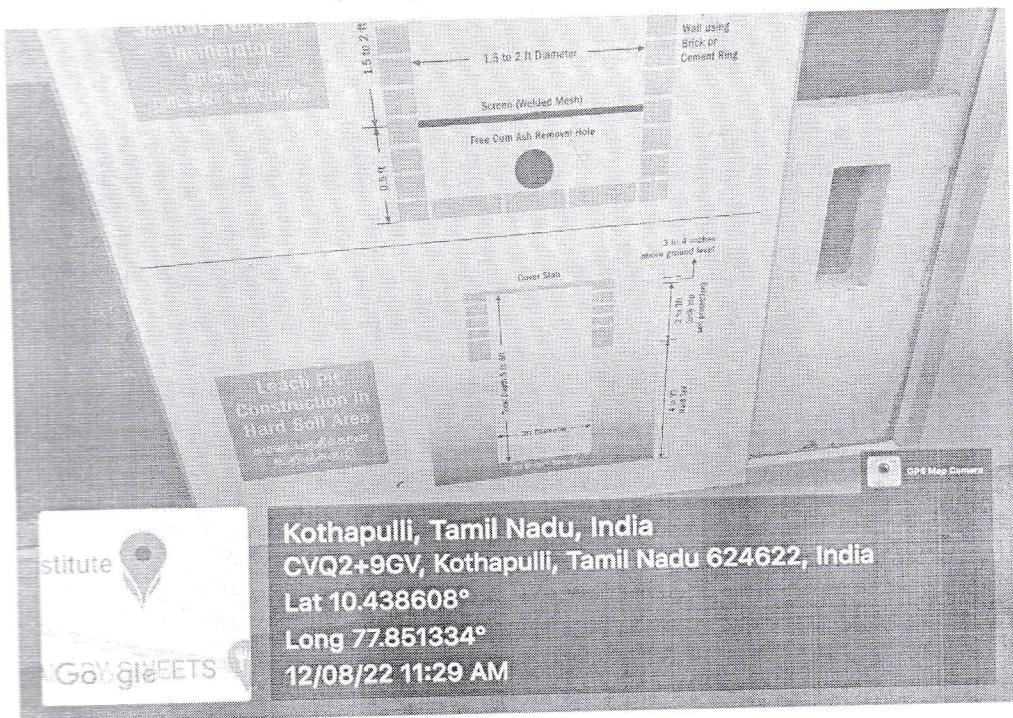
Plan of Septic tank with two chambers



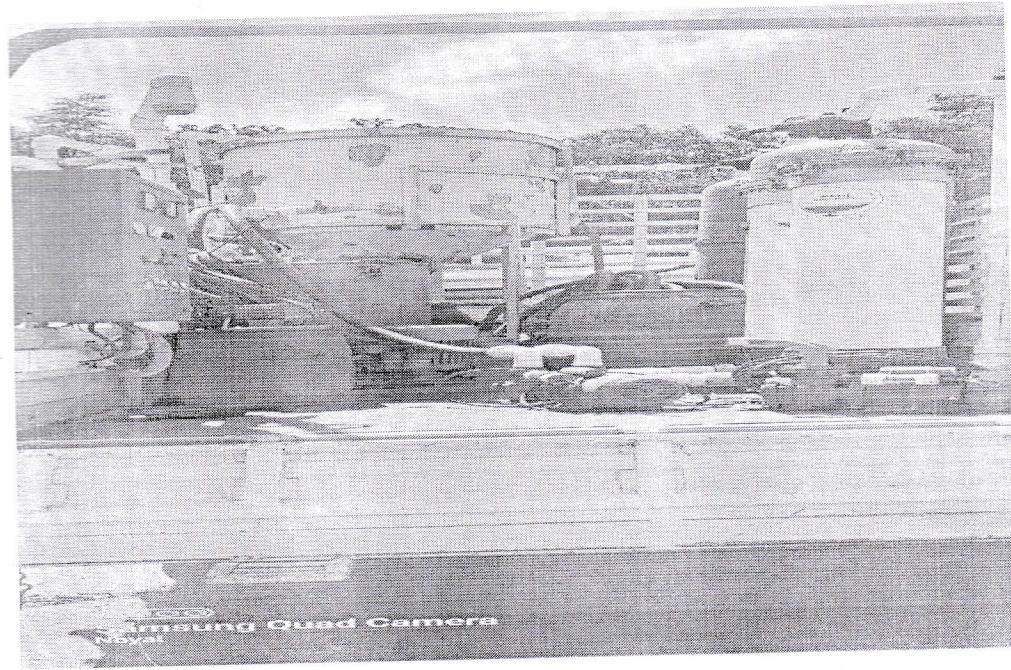
## Cost Effective Toilet Models



## Sanitary Napkin Incineration Model



Mobile sludge treatment unit



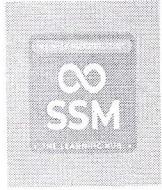
1. Celeste  
2. V. Raj K

EVENT CO-ORDINATORS

B.S.  
HOD/CIVIL

D.H.L  
PRINCIPAL

C. MERDIN RANI, AP/civil  
V. PRAVEEN JESURAJ AP/civil



## SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul - Palani Highway, Dindigul - 624 002.  
Phone: 0451-2448800-99 (100 Lines) Fax: 0451-2448855  
Email: [ssmietdgl@gmail.com](mailto:ssmietdgl@gmail.com) Website: [www.ssmiet.ac.in](http://www.ssmiet.ac.in)

### DEPARTMENT OF CIVIL ENGINEERING

02/08/2022

#### Submitted to the Principal :

Respected Sir,

**Subject :** Requesting permission to conduct Value Added Course - Reg.

It has been planned to conduct Value Added Course on "Non-Sewered Sanitation in achieving Swachh Bharat Mission 2.0" by Water, Sanitation And Hygiene Institute (WASH Institute), Dindigul at our Campus from 10/8/2022 to 12/8/2022 for III Year and IV Year students. Kindly grant us permission to conduct the Value added course.

*C Merlin Rani &  
V Praveen Jesuraj*  
Co-ordinators

C.Merlin Rani &  
V.Praveen Jesuraj

*P.S. 2/8/22*  
HoD/Civil

*Q.B.J*  
Principal



## SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul - Palani Highway, Dindigul - 624 002.

Phone: 0451-2448800-99 (100 Lines) Fax: 0451-2448855

Email: [ssmietdgl@gmail.com](mailto:ssmietdgl@gmail.com) Website: [www.ssmiet.ac.in](http://www.ssmiet.ac.in)

### DEPARTMENT OF CIVIL ENGINEERING

02/08/2022

#### Submitted to the Principal :

Respected Sir,

**Subject :** Requisition of Food and Accommodation for guest during Value Added Course - Reg.

It has been planned to conduct Value Added Course on "Non-Sewered Sanitation in achieving Swachh Bharat Mission 2.0" by Water, Sanitation And Hygiene Institute (WASH Institute), Dindigul at our Campus from 10/8/2022 to 12/8/2022 for III Year and IV Year students.

In this regard, the following requirements are needed. Kindly do the needful.

S.No.	Requirements	Total No.s
1.	Memento	2 No.s
2.	Food & Accommodation	For 1 member (3 days)
3.	Food (Breakfast & Lunch)	1 no. (2 days)
4.	Refreshment (Tea & Snacks) - Seminar Hall 1 Pre-lunch & After lunch	2 times per day (50 no.s)
5.	Water bottle	3 no.s per day
6.	Bus (To Reddiyarchatram on 12/08/2022) Total no. of students : 33 + 2 faculty	Bus - 1 No.

21/8/22  
HoD/Civil

(Dr. G. Selvabharathi)

PRINCIPAL



BILL & MELINDA  
GATES foundation



**Three Days -Value added Course on  
NON-SEWERED SANITATION IN ACHIEVING SBM 2.0**

Organized by *Z*

**WATER, SANITATION AND HYGIENE INSTITUTE  
(WASH Institute)**

**IN ASSOCIATION WITH  
SSM COLLEGE OF ENGINEERING AND TECHNOLOGY,**

**DINDIGUL**

*Department of Civil Engg.*

**AGENDA**

Time	Session	Topic	Speaker
<b>DAY I (10.08.2022)</b>			
09:30-10:00 AM	Inauguration		
10:00-11:00 AM	Technical Session I	Public Health and Sanitation-Nexus	Dr. Hemalatha
11:00-12:00 PM	Technical Session II	Overview of Non-Sewered Sanitation (NSS)	Mr. Anwar <i>✓</i>
12:00-01:00 PM	Technical Session III	Scope of NSS in Swachh Bharat Mission 2.0 (SBM 2.0)	Dr. Hemalatha <i>D</i>
01:00-01:30 PM	Lunch Break		
01:30-02:30 PM	Technical Session IV	Small Scale Sanitation Systems in India	Mr. Anwar
02:30-03:30 PM	Technical Session V	Fecal Sludge (FS) and Septage Management- Stakeholders and Interventions (Activity I) <i>✓</i>	Mr. Anwar
<b>DAY II (11.08.2022)</b>			
09:30-10:30 AM	Technical Session I	Decentralized Wastewater Treatment systems	Dr. Hemalatha
10:30-11:30 PM	Technical Session II	FS Containment systems, Emptying and Transportation	Mr. Anwar
11:30-12:30 PM	Technical Session III	FS Treatment technologies	Mr. Anwar
12:30-01:00 PM	Lunch Break		
01:00-01:30 PM	Activity II		
01:30-02:30 PM	Technical Session IV	Resource recovery from Fecal sludge	Dr. Hemalatha
02:30-03:30 PM	Technical Session V	Gender Inclusive Sanitation	Dr. Hemalatha
<b>DAY III (12.08.2022)</b>			
09:00-04:00 PM	Exposure Visit	MTU Visit at WASH Academy	Dr. Hemalatha



# SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul-Palani Highway, Dindigul - 624 002, Tamilnadu

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai, Accredited by NAAC)



**USAID**  
FROM THE AMERICAN PEOPLE

BILL & MELINDA  
GATES foundation

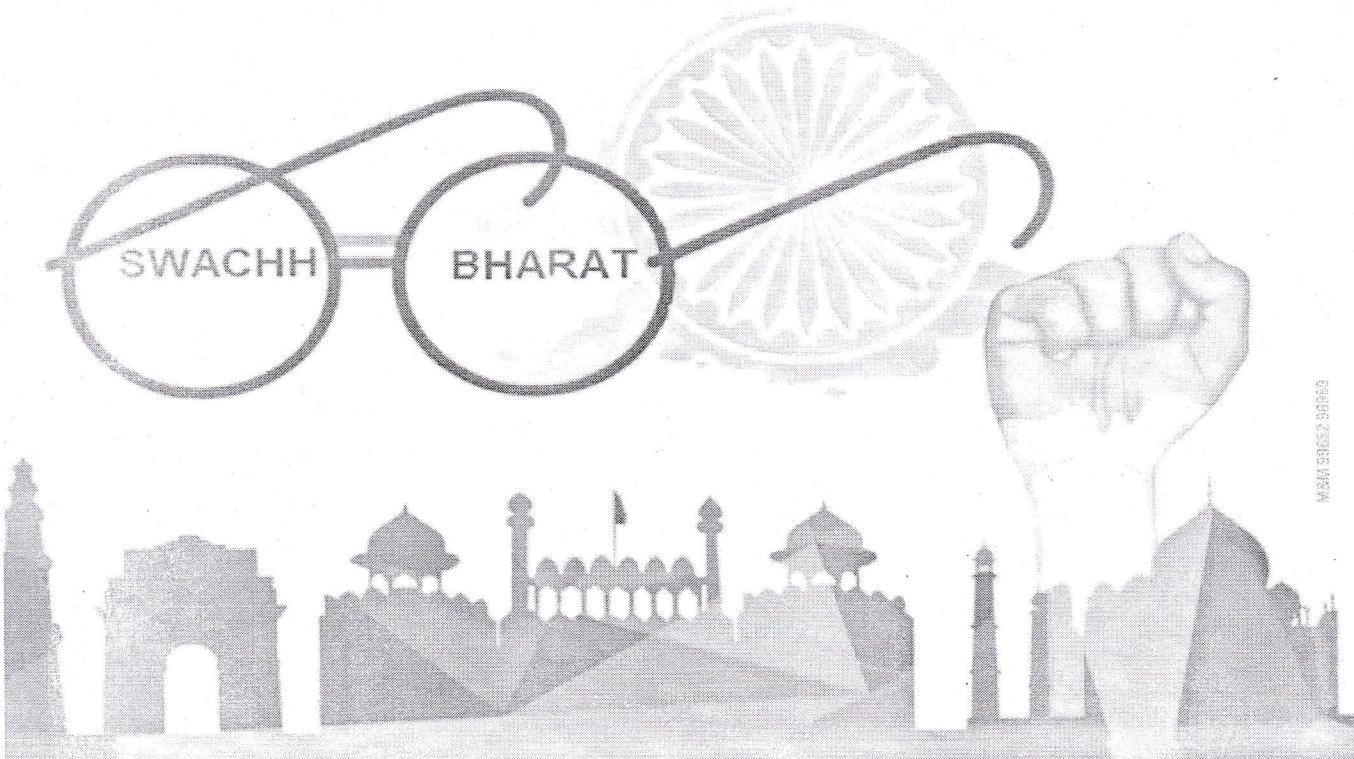


Ministry of Housing  
and Urban Affairs  
Government of India



## DEPARTMENT OF CIVIL ENGINEERING *Organizes* Value added Course on **NON-SEWERED SANITATION IN ACHIEVING SWACHH BHARAT MISSION 2.0**

Date : 10<sup>th</sup> to 12<sup>th</sup> August 2022 | Venue : Seminar Hall-1



MENINGOCE 3656

Course Coordinator

Dr. D. Hemalatha  
Vice Principal  
Wash Institute, Dindigul

Event Coordinators

Mrs. C. Merlin Rani | Mr. V. Praveen Jesuraj | Dr. G. Selvabharathi | Dr. D. Senthil Kumaran  
AP/Civil AP/Civil HoD/Civil Principal

Chairperson







TIN: 33ELNPP236ID1Z7 ESTIMATE/QUOTATION ORDER FORM

Mobile : 99443 33154  
97508 17320

# Gowtham Trophyies

Surya Complex, Aarthi Theatre Road, Near Canara Bank ATM  
Opp.Dr.Salima Hospital, Dindigul - 624 001.  
E-mail:gowthamgraphicsdgl@gmail.com

I.D Cards, Belt, Tie, Socks, Shields, Momentoes, Trophies, Medals

**445**

Date : 09/08/22

M/s S.S.M Institute of Engineering & Technology  
Department of Civil Engineering

No	PARTICULARS	Qty.	Rate	Rs.	Ps.
1.	shield sticker	2	160	320	-
			50	50	-
		Total		370	-
	Quotation for Approval For Orders, Not for Sale				

Goods once sold will not be taken back or exchanged

8-3 by  
For Gowtham Trophyies

**7391708280**

Cell : 96866 70098 CASH BILL Ph : 0451 245570

**MALATHY**  
BROWSING CENTRE & STATIONARIES

49C, A.K. Sithar Complex, Near Ramana Hospital,  
Aarthi Theatre Road, Y.M.R. Patti, Dindigul - 1.  
E-mail : malathynetcafe@gmail.com

No. 153 Date: 8/8/22

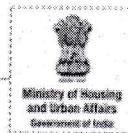
M/s....	Particulars	Detail	Rupees
	Browsing Sketch Pads	2	60
	Prints		
	Scanning		
	Xerox		
	Lamination		
	Others		
	<b>TOTAL</b>		60+

For Malathy Browsing & Xerox

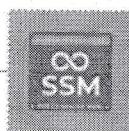
*[Signature]*



**USAID**  
FROM THE AMERICAN PEOPLE



Ministry of Housing  
and Urban Affairs  
Government of India



# Value Added Course on Non-Sewered Sanitation in achieving Swachh Bharat Mission 2.0

**SSM Institute of Engineering and Technology, Dindigul  
Department of Civil Engineering**

**10 - 12 August, 2022**

- Banner display

- Lady - Accra

- Presid Address



## SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul - Palani highway, Dindigul - 624 002., Tamilnadu

(Approved by AICTE, New Delhi, Affiliated by Anna University, Accredited by NAAC)



## WATER, SANITATION AND HYGIENE INSTITUTE

and

## DEPARTMENT OF CIVIL ENGINEERING

*Organizes*

### Workshop on

# LIQUID WASTE MANAGEMENT

Date: 29,30 & 31 August, 2023

Venue: Video Conferencing Hall



#### Course Coordinator

**Dr. K. Radhika**

Vice Principal

WASH Institute

#### Event Coordinators

**Dr. G. Selvabharathi**

HoD/Civil

**M.P. Karthik & P.M.Sharan Karthik**

Assistant Professor  
SSMIET

#### Chair Person

**Dr. D. Senthil Kumaran**

Principal

SSMIET



**USAID**  
FROM THE AMERICAN PEOPLE

BILL &  
MELINDA  
GATES  
foundation



**Ministry of Housing  
and Urban Affairs**  
Government of India



**DEPARTMENT OF CIVIL ENGINEERING**

Academic Year 2023 – 2024 (Odd Semester)

Report

on

Workshop on

**LIQUID WASTE MANAGEMENT**

Date: 29/08/2023 to 31/08/2023

Venue: Video Conference Hall

Course Co-ordinator :Dr. K. Radhika, Vice Principal, WASH Institute

Event Co-ordinators: Dr. G. Selvabharathi, Associate Professor,

Mr. M.P.Karthik& Mr. P.M. SharanKarthik, Assistant Professor,

Department of Civil Engineering,

SSM Institute of Engineering and Technology, Dindigul

The Department of Civil Engineering had organized "Three Days workshop on "Liquid Waste Management" for III & IV year students from 29/08/2023 to 31/08/2023 in Video Conference hall, SSMIET. The Course was commenced with the inaugural function at 9:30 a.m. on 29/08/2023 with TamizhThai Valthu, followed by Welcome address by Dr. G. Selvabharathi, Head, Department of Civil Engineering, SSMIET and Ms. M. Muthulakshmi, Assistant Professor, Department of Civil Engineering has introduced the Course coordinator "Dr. K. RADHIKA" and Trainer "Dr. SARANYA"to the gathering. The Course coordinator Dr. K. Radhikagave the introduction about the Liquid Waste Management the session was ended at 10.45 a.m.

The students were asked to assemble at video conference hall at 11.00 a.m. and the first session was handled by Dr. K. Radika.

The following topics were discussed in the technical session.

- Introduction about the liquid waste management.
- Introduction about the treatment techniques
- Detailed discussion about the sewage treatment system in India

After this session, the student was refreshed with some activities.

In the technical session II on 30/08/2023, sewage treatment system related to the case studies were discussed and technical “Pretest quizzes” were handled. In this session, students are divided into four groups and they were informed to give their views to solve this studies. Students had actively participated in this activity and shared their own ideas on this issues.

In technical Session III on 20/8/2022, students had visited the WASH institute at Rediyarchatram and the whole team of students were separated into 3 groups and they were demonstrated with the mobile sludge treatment unit , followed by chemical testing laboratory and viewed the various types of cost effective materials used for construction of toilets, septic tank models, sanitary napkin incinerators and they were explained with how to use the decomposed sludge and treated water for natural plants.

At end of this Programme, the students came to know about the importance of the liquid waste management system and treatments of the sewage in the Environment.

## Photos:



Event Coordinators

HoD/Civil

Principal