



# SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi / Affiliated to Anna University / Accredited by NAAC/  
Accredited by NBA (ECE, EEE, MECHANICAL))

Dindigul – Palani Highway, Dindigul – 624 002

## NAAC CRITERION- 7



**7.1.2 The Institution has facilities for alternate sources of energy and energy conservation Measures**

## **CIRCULARS AND REPORTS OF ACTIVITIES FOR THE IMPLEMENTATION OF THE INITIATIVES DOCUMENT**



**Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (RUS)**  
Principal  
SSM Institute of Engineering and Technology  
Kuttathupatti Village, Sindalagundu (Po),  
Palani Road, Dindigul - 624 002.

# **EVENT REPORT**


## **VALUE ADDED COURSE**

### **ON**

# **NON SEWERED**

# **SANITATION**



  
Dr. D. SENTHIL KUMARAN, M.E., Ph.D., (PUN.)  
Principal  
SSM Institute of Engineering and Technology  
Kuttathupatti Village, Sindalagundu (Po),  
Palani Road, Dindigul - 624 002.



## SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul - Palani Highway, Dindigul - 624 002.

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

Email: [ssmiedgl@gmail.com](mailto:ssmiedgl@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 WASII 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



*[Handwritten signature]*





### Activities on 10/08/2022



### Technical session



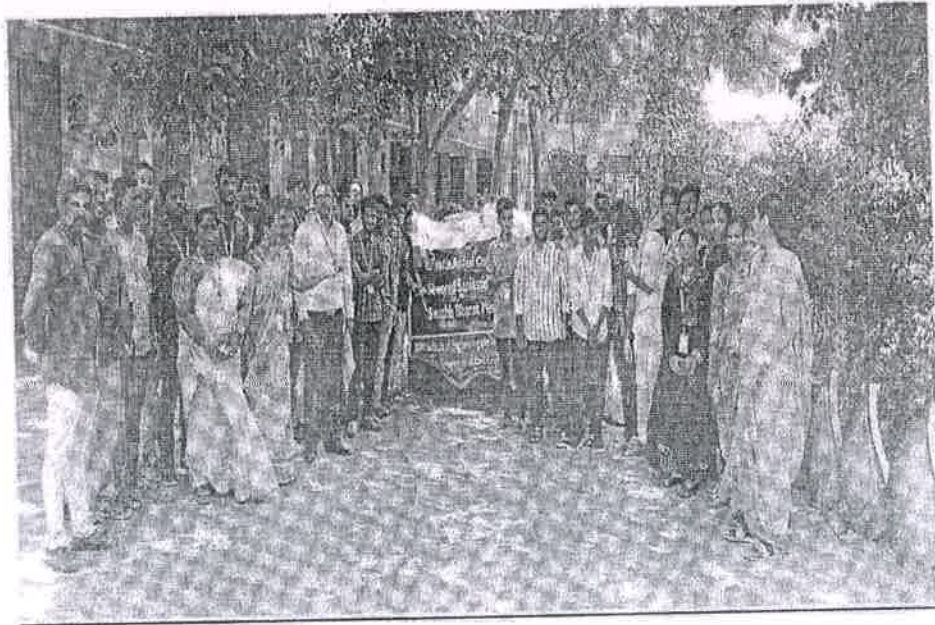


## Case studies Discussion on 11/08/2022

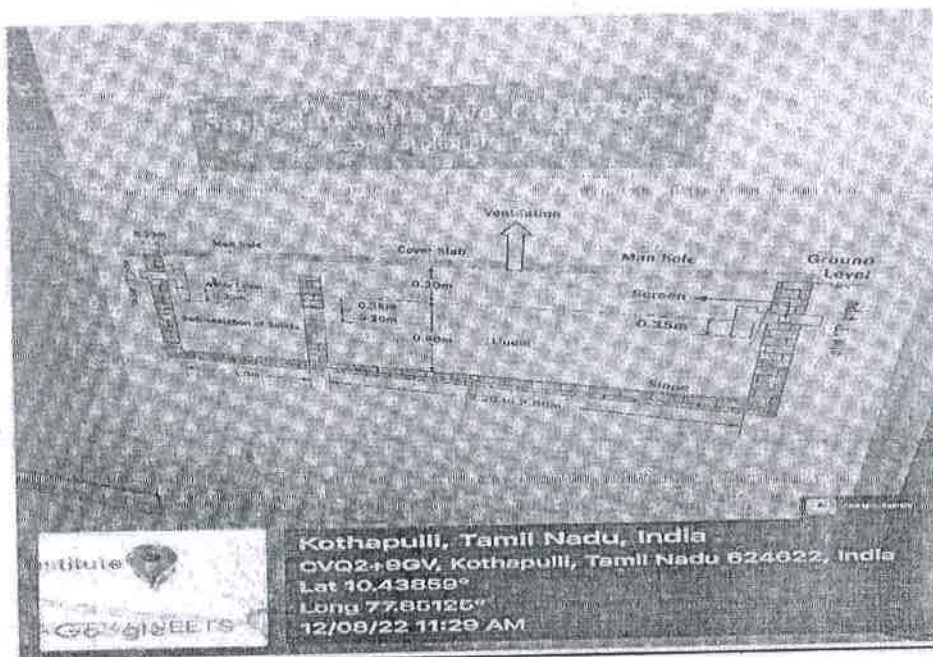




## Industrial Visit, WASH Institute, Rediyarchatram

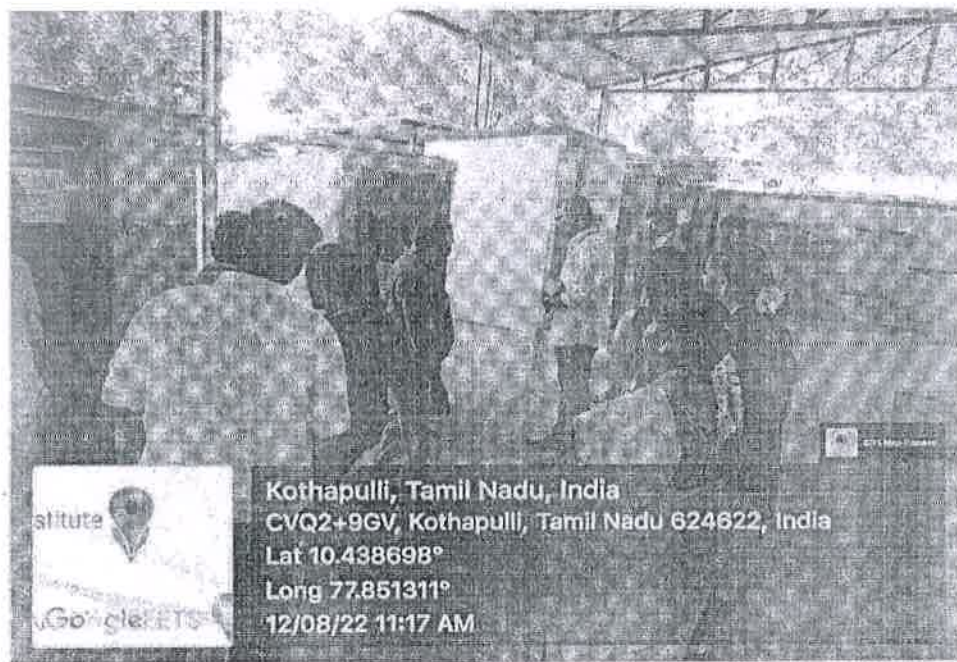
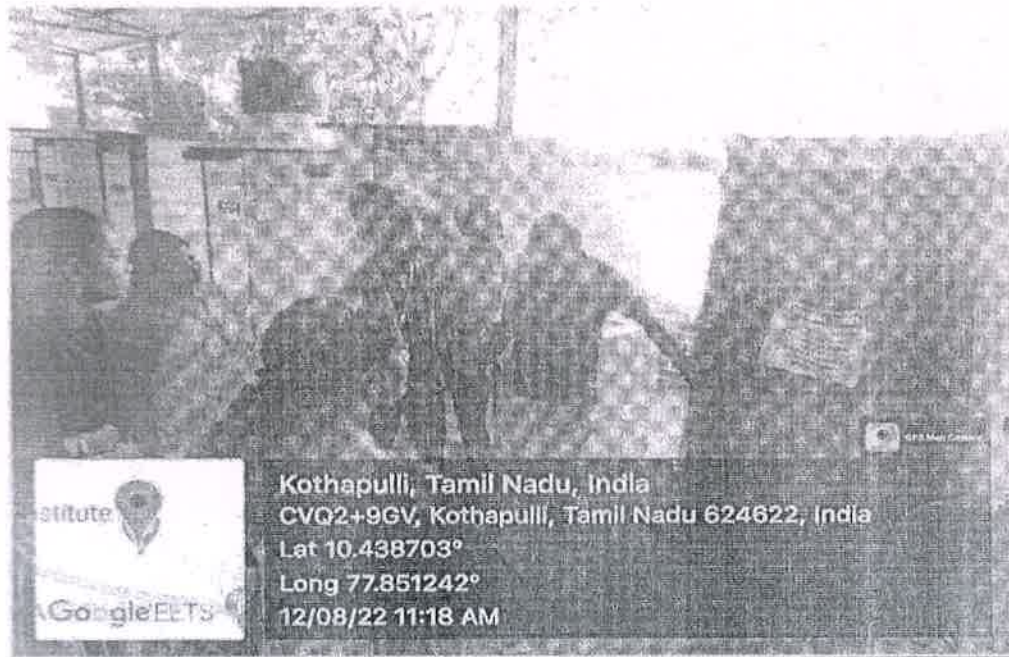


**Plan of Septic tank with two chambers**





## Cost Effective Toilet Models

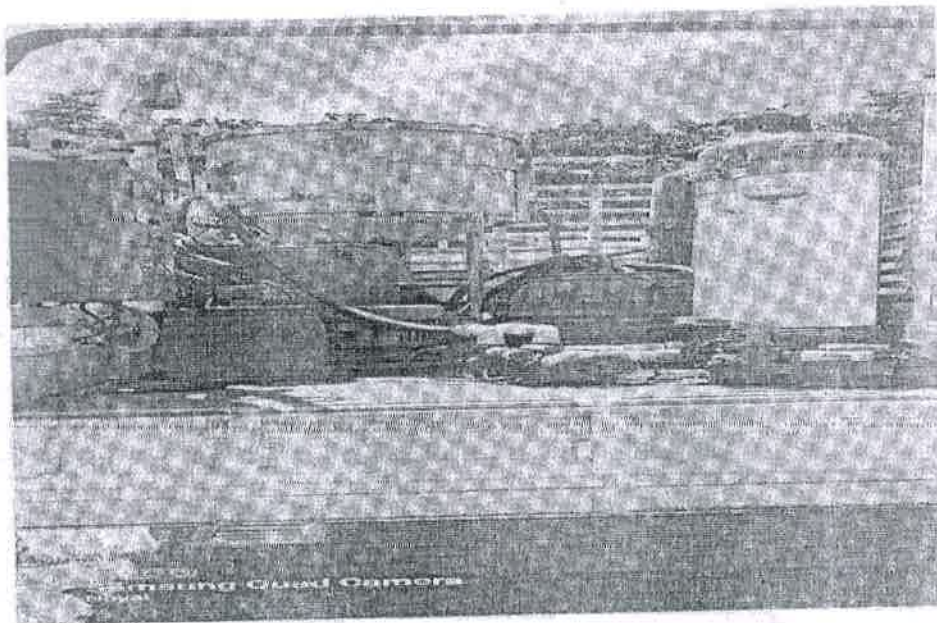




## Sanitary Napkin Incineration Model



## Mobile sludge treatment unit



1. *[Signature]*  
2. *[Signature]*  
EVENT CO-ORDINATORS

*[Signature]*  
HOD/CIVIL

*[Signature]*

*[Signature]*  
PRINCIPAL



MERLIN RANI, AP/ini  
V. PRAVEEN JESURAJ AP/age-11 of 18

Dr.D.SENTHIL KUMARAN, M.E., Ph.D. (IITB)  
Principal  
SSM Institute of Engineering and Technology  
Kuttathupatti Village, Sindelagundu (Po),  
Palani Road, Dindigul - 624 002



## SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul - Palani Highway, Dindigul - 624 002.

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

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

### DEPARTMENT OF CIVIL ENGINEERING

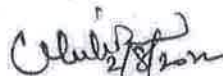
02/08/2022

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.


  
V. Praveen Jesuraj  
Co-ordinators

C. Merlin Rani &  
V. Praveen Jesuraj

  
HoD/Civil

  
Principal



  
Dr. D. SENTHIL KUMARAN, M.E., Ph.D., UGC  
Principal  
SSM Institute of Engineering and Technology  
Kuttathupatti Village, Sindalagundu (Po),  
Palani Road, Dindigul- 624 002.





SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY  
Dindigul - Palani Highway, Dindigul - 624 002.  
Phone: 0451-2448800-99 (100 Lines) Fax: 0451-2448855  
Email: [ssmiedgl@gmail.com](mailto:ssmiedgl@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 Reddiyarchattram on 12/08/2022) Total no. of students : 33 + 2 faculty	Bus - 1 No.

  
HOD/Civil  
(Dr. G. Selvabharathi)

  
PRINCIPAL



  
Dr. D. SENTHIL KUMAR  
Principal  
SSM Institute of Engineering and Technology  
Kuttathupatti Village, Sindalagundu (Po),  
Palani Road, Dindigul - 624 002.





BILL & MELINDA  
GATES foundation



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

Organized by

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 ✓
12:00-01:00 PM	Technical Session III	Scope of NSS in Swachh Bharat Mission 2.0 (SBM 2.0)	Dr. Hemalatha
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)	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



*[Signature]*

*D.D. SENTHIL KUMARAN*  
Principal  
SSM Institute of Engineering and Technology  
Kuttathupatti Village, Sindalaganudi P.O.,  
Palani Road, Dindigul - 624 002.





# 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)



BILL & MELINDA GATES foundation



Ministry of Housing and Urban Affairs  
Government of India



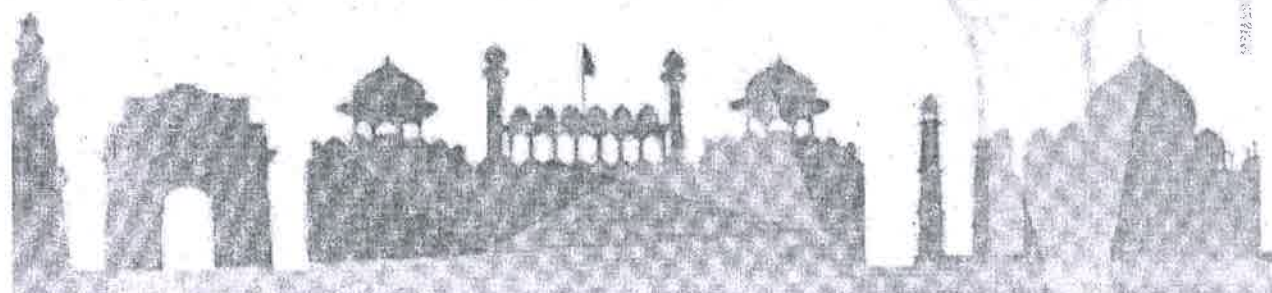
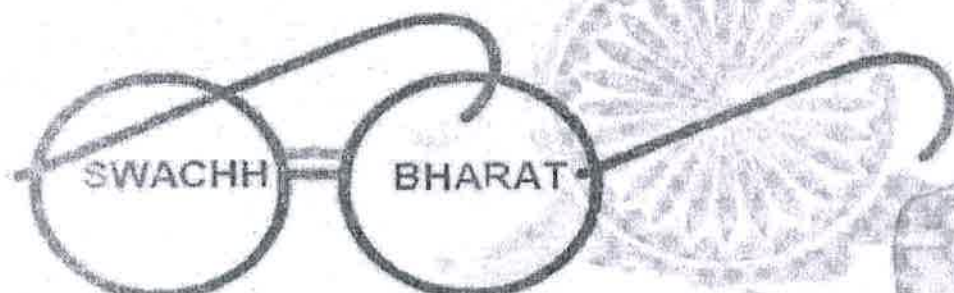
## DEPARTMENT OF CIVIL ENGINEERING

*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



Course Coordinator

Dr. D. Hemalatha

Event Coordinators

Mrs. C. Merfin Rani

AP/Civil

Mr. V. Praveen Jesuraj

AP/Civil

Dr. G. Selvabharathi

HoD/Civil

Chairperson

Dr. D. Senthil Kumaran

Principal



Dr. D. SENTHIL KUMARAN, B.E.,  
Principal  
SSM Institute of Engineering and Technology  
Kuttathupatti Village, Sindalagundu (Po),  
Palani Road, Dindigul - 624 002.





BILL & MELINDA  
GATES FOUNDATION



**Attendance Sheet for Value Added Course on  
NON-SEWERED SANITATION IN ACHIEVING SBM 2.0  
Civil Engineering Students**

**Date: 10-08-2022 (DAY 1)**

SL. No.	Register No.	Name of the Students	Year of Study	Signature	
				FN	AN
1	922120103001	ALAGENDIRAN A	III Year		
2	922120103002	ANU PRABHA M	III Year		
3	922120103003	ARUL YOWAN P	III Year		
4	922120103004	EZHILARASHAN B	III Year		
5	922120103005	HARIPRASATH S	III Year		
6	922120103006	MANOJ N	III Year		
7	922120103007	MUKESH CHELLAM M	III Year		
8	922120103008	MUTHAMIZH SELVAN M	III Year		
9	922120103009	RAGUNATH BOOPATHI S	III Year		
10	922120103010	SASIKUMAR P	III Year		
11	922120103011	SHAHIN BANU N	III Year		
12	922120103012	SOUNDHARA RAJAN G	III Year		
13	922120103013	SRI KARAN K	III Year		
14	922120103014	SUBIKSHA A	III Year		
15	922120103015	SUDHARSAN M	III Year		
16	922120103016	VISHWA A	III Year		
17	922120103301	ATHAV RAM BALAJI P	III Year		
18	922120103302	JOHN PHILIPS F	III Year		
19	922120103303	MOHAMED NASIM ASLAM M.A	III Year		
20	922120103305	NAVEEN KUMAR S	III Year		
21	922120103306	NOYAL JERALD RAJ A	III Year		
22	922120103307	SHAKE ABDULLA E	III Year		
23		T. KIRUTHIK ROSHINI	III Year		
24	922119103001	S. ABUL BAJAR	IV Year		
25	922119103002	S. ARAVINTH	IV Year		
26	922119103003	A. CHANDRA PRABHU	IV Year		
27	922119103004	M. HEMARAJ	IV Year		
28	922119103007	C. MAHAVISHNUVARMAN	IV Year		
29	922119103008	P. POORACHANDRAN	IV Year		
30	922119103010	S. SANJEEVI	IV Year		
31	922119103011	J. SANTHOSH CALVIN	IV Year		
32	922119103012	S. R. SATHEESH KUMAR	IV Year		
33	922119103013	S. SHEIK DAWOOD	IV Year		
34	922119103014	R. SIVA	IV Year		
35	922119103015	P. SURESH KUMAR	IV Year		
36	922119103016	C.R. VIJEY	IV Year		
37	922119103017	A.P.K YOGESH ARASAN	IV Year		
38		B.SAKTHI PRAGADEESWARI	IV Year		







BILL & MELINDA  
GATES foundation

**Attendance Sheet for Value Added Course on  
NON-SEWERED SANITATION IN ACHIEVING SBM 2.0  
Civil Engineering Students**

**Date: 11-08-2022 (DAY 2)**

Sl. No.	Register No.	Name of the Students	Year of Study	Signature	
				FN	AN
1	922120103001	ALAGENDIRAN A	III Year	<i>[Signature]</i>	<i>[Signature]</i>
2	922120103002	ANU PRABHA M	III Year	<i>[Signature]</i>	<i>[Signature]</i>
3	922120103003	ARUL YOWAN P	III Year	<i>[Signature]</i>	<i>[Signature]</i>
4	922120103004	EZILARASHIAN B	III Year	<i>[Signature]</i>	<i>[Signature]</i>
5	922120103005	HARIPRASATH S	III Year	<i>[Signature]</i>	<i>[Signature]</i>
6	922120103006	MANOJ N	III Year	<i>[Signature]</i>	<i>[Signature]</i>
7	922120103007	MUKESH CHELLAM M	III Year	<i>[Signature]</i>	<i>[Signature]</i>
8	922120103008	MUTHAMIZIL SELVAN M	III Year	<i>[Signature]</i>	<i>[Signature]</i>
9	922120103009	RAGUNATH BOOPATHI S	III Year	<i>[Signature]</i>	<i>[Signature]</i>
10	922120103010	SASIKUMAR P	III Year	<i>[Signature]</i>	<i>[Signature]</i>
11	922120103011	SHAHIN BANU N	III Year	<i>[Signature]</i>	<i>[Signature]</i>
12	922120103012	SOUNDHARA RAJAN G	III Year	<i>[Signature]</i>	<i>[Signature]</i>
13	922120103013	SRI KARAN K	III Year	<i>[Signature]</i>	<i>[Signature]</i>
14	922120103014	SUBIKSHA A	III Year	<i>[Signature]</i>	<i>[Signature]</i>
15	922120103015	SUDHARSAN M	III Year	<i>[Signature]</i>	<i>[Signature]</i>
16	922120103016	VISHWA A	III Year	<i>[Signature]</i>	<i>[Signature]</i>
17	922120103301	ATHAV RAM BALAJI P	III Year	<i>[Signature]</i>	<i>[Signature]</i>
18	922120103302	JOHN PHILIPS F	III Year	<i>[Signature]</i>	<i>[Signature]</i>
19	922120103303	MOHAMED NASIM ASLAM M A	III Year	<i>[Signature]</i>	<i>[Signature]</i>
20	922120103305	NAVJEN KUMAR S	III Year	<i>[Signature]</i>	<i>[Signature]</i>
21	922120103306	NOYAL JERALD RAJ A	III Year	<i>[Signature]</i>	<i>[Signature]</i>
22	922120103307	SHAKE ABDULLA E	III Year	<i>[Signature]</i>	<i>[Signature]</i>
23		T. KIRUTHIK ROSHINI	III Year	<i>[Signature]</i>	<i>[Signature]</i>
24	922119103001	S. ABUL BAJAR	IV Year	<i>[Signature]</i>	<i>[Signature]</i>
25	922119103002	S. ARAVINTH	IV Year	<i>[Signature]</i>	<i>[Signature]</i>
26	922119103003	A. CIANDRA PRABHU	IV Year	<i>[Signature]</i>	<i>[Signature]</i>
27	922119103004	M. HEMARAJ	IV Year	<i>[Signature]</i>	<i>[Signature]</i>
28	922119103007	C. MAHAVISHNUVARMAN	IV Year	<i>[Signature]</i>	<i>[Signature]</i>
29	922119103008	P. POORACHANDRAN	IV Year	<i>[Signature]</i>	<i>[Signature]</i>
30	922119103010	S. SANJEEVI	IV Year	<i>[Signature]</i>	<i>[Signature]</i>
31	922119103011	J. SANTHOSH CALVIN	IV Year	<i>[Signature]</i>	<i>[Signature]</i>
32	922119103012	S. R. SATHEESH KUMAR	IV Year	<i>[Signature]</i>	<i>[Signature]</i>
33	922119103013	S. SHEIK DAWOOD	IV Year	<i>[Signature]</i>	<i>[Signature]</i>
34	922119103014	R. SIVA	IV Year	<i>[Signature]</i>	<i>[Signature]</i>
35	922119103015	P. SURESH KUMAR	IV Year	<i>[Signature]</i>	<i>[Signature]</i>
36	922119103016	C.R. VIJAY	IV Year	<i>[Signature]</i>	<i>[Signature]</i>
37	922119103017	A.P.K YOGESH ARASAN	IV Year	<i>[Signature]</i>	<i>[Signature]</i>
38		B.SAKTHI PRAGADEESWARI	IV Year	<i>[Signature]</i>	<i>[Signature]</i>







BILL & MELINDA  
GATES foundation

**Attendance Sheet for Value Added Course on  
NON-SEWERED SANITATION IN ACHIEVING SBM 2.0  
Civil Engineering Students**

Date: 12-08-2022 (DAY 3)

Sl. No.	Register No.	Name of the Students	Year of Study	Signature	
				FN	AN
1	922120103001	ALAGENDIRAN A	III Year	<i>[Signature]</i>	<i>[Signature]</i>
2	922120103002	ANU PRABHA M	III Year	<i>[Signature]</i>	<i>[Signature]</i>
3	922120103003	ARUL YOWAN P	III Year	<i>[Signature]</i>	<i>[Signature]</i>
4	922120103004	EZHILARASHIAN B	III Year	<i>[Signature]</i>	<i>[Signature]</i>
5	922120103005	HARIPRASATH S	III Year	<i>[Signature]</i>	<i>[Signature]</i>
6	922120103006	MANOJ N	III Year	<i>[Signature]</i>	<i>[Signature]</i>
7	922120103007	MUKESH CHELLAM M	III Year	<i>[Signature]</i>	<i>[Signature]</i>
8	922120103008	MUTHAMIZH SELVAN M	III Year	<i>[Signature]</i>	<i>[Signature]</i>
9	922120103009	RAGUNATH BOOPATHI S	III Year	<i>[Signature]</i>	<i>[Signature]</i>
10	922120103010	SASIKUMAR P	III Year	<i>[Signature]</i>	<i>[Signature]</i>
11	922120103011	SHATHIN BANU N	III Year	<i>[Signature]</i>	<i>[Signature]</i>
12	922120103012	SOUNDHARA RAJAN G	III Year	<i>[Signature]</i>	<i>[Signature]</i>
13	922120103013	SRI KARAN K	III Year	<i>[Signature]</i>	<i>[Signature]</i>
14	922120103014	SUBIKSHA A	III Year	<i>[Signature]</i>	<i>[Signature]</i>
15	922120103015	SUDHARSAN M	III Year	<i>[Signature]</i>	<i>[Signature]</i>
16	922120103016	VISHWA A	III Year	<i>[Signature]</i>	<i>[Signature]</i>
17	922120103017	ATHAV RAM BALAJI P	III Year	<i>[Signature]</i>	<i>[Signature]</i>
18	922120103018	JOHN PHILIPS F	III Year	<i>[Signature]</i>	<i>[Signature]</i>
19	922120103019	MOHAMED NASIM ASLAM M A	III Year	<i>[Signature]</i>	<i>[Signature]</i>
20	922120103020	NAVTEEN KUMAR S	III Year	<i>[Signature]</i>	<i>[Signature]</i>
21	922120103021	NOYAL JERALD RAJ A	III Year	<i>[Signature]</i>	<i>[Signature]</i>
22	922120103022	SHAKE ABDULLA E	III Year	<i>[Signature]</i>	<i>[Signature]</i>
23		T. KIRUTHIK ROSUINI	III Year	<i>[Signature]</i>	<i>[Signature]</i>
24	922119103001	S. ABUL BAJAR	IV Year	<i>[Signature]</i>	<i>[Signature]</i>
25	922119103002	S. ARAVINTH	IV Year	<i>[Signature]</i>	<i>[Signature]</i>
26	922119103003	A. CHANDRA PRABHU	IV Year	<i>[Signature]</i>	<i>[Signature]</i>
27	922119103004	M. HEMARAJ	IV Year	<i>[Signature]</i>	<i>[Signature]</i>
28	922119103007	C. MAHAVISHNUVARMAN	IV Year	<i>[Signature]</i>	<i>[Signature]</i>
29	922119103008	P. POORACHANDRAN	IV Year	<i>[Signature]</i>	<i>[Signature]</i>
30	922119103010	S. SANJEEVI	IV Year	<i>[Signature]</i>	<i>[Signature]</i>
31	922119103011	J. SANTHOSH CALVIN	IV Year	<i>[Signature]</i>	<i>[Signature]</i>
32	922119103012	S. R. SATHEESH KUMAR	IV Year	<i>[Signature]</i>	<i>[Signature]</i>
33	922119103013	S. SHEIK DAWOOD	IV Year	<i>[Signature]</i>	<i>[Signature]</i>
34	922119103014	R. SIVA	IV Year	<i>[Signature]</i>	<i>[Signature]</i>
35	922119103015	P. SURESH KUMAR	IV Year	<i>[Signature]</i>	<i>[Signature]</i>
36	922119103016	C.R. VIJAY	IV Year	<i>[Signature]</i>	<i>[Signature]</i>
37	922119103017	A.P.K YOGESHI ARASAN	IV Year	<i>[Signature]</i>	<i>[Signature]</i>
38		B.SAKTHI PRAGADEESWARI	IV Year	<i>[Signature]</i>	<i>[Signature]</i>



*[Handwritten Signature]*