



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Approved by AICTE, New Delhi / Affiliated to Anna University, Chennai / Accredited by NAAC)
Dindigul- Palani Highway, Dindigul – 624 002.

06.12.2019

UBA (Unnat Bharat Abhiyan) Programme

Submitted to the Principal for kind approval

Sub: Village committee meeting -Reg.

I wish to bring to your kind notice that we are planning to organized village committee meeting on 9.12.2019 at SSMIET (Smart class room, B-Block) .As part of the event will be discussed with drinking water facilities, solar light, sanitation and economic growth.

I request you to approval for this event. Herewith, I have attach the event details for your reference.

Staff In-charge

E. ARULKUMAR

UBA Coordinator

[R. SENTHIL KUMAR]



Principal

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



SSM INSTITUTE OF ENGINEERING & TECHNOLOGY



Village committee meeting

Name of the Institution : SSM Institute of Engineering and Technology-Dindigul

Name of the coordinator : Dr.D.Senthil Kumaran-Principal/SSMIET

Institute AISHE code : C-45320

List of villages proposed to be adopted:

- 1.Puliarajakkappatti
- 2.Kuttathu Avarampatti
- 3.Mylapore
- 4.Palamrajakkappatti
- 5.Kunjanampatty

Meeting Date & session : 09-12-2019 & Forenoon

Venue : Smart class Room-SSMIET

Agenda :Interaction with the villagers , Village Development Officers , Representatives of villages to conducting Participatory Rural Appraisal (PRA) for feedback.

List of Participation:

Kuttathu patti'

| Sl.No | Name | Signature |
|-------|-------------------|----------------------|
| 1. | A. christin Rajan | <i>Abeer</i> |
| 2. | Bangizhini | <i>Bangizhini</i> |
| 3. | I. Dhanush | <i>M. Dhanush</i> |
| 4. | J. Selvaraj | <i>J. Selvaraj</i> |
| 5. | K. Sasi | <i>K. Sasi</i> |
| 6. | L. Muthukumar | <i>L. Muthukumar</i> |
| 7. | M. Arun | <i>M. Arun</i> |

R. Senthil Kumaran
Dr.D.SENTHIL KUMARAN, M.E.,Ph.D.,(NUS)
Principal
SSM Institute of Engineering and Technology
Kuttathupatti Village, Sindhalgundu(Po),
Palani Road, Dindigul - 624 002.

| Sl.No | Name | Signature |
|-------|---|---|
| 8. | PREM KUMAR. S | (Prem ..) |
| 9. | KAVI | (Kavi ..) |
| 10. | VENKATESH | (Venkatesh ..) |
| 11. | PALANI MURUGAN | (Palani ..) |
| 12. | ASHOK RAJA.N | (Ashok ..) |
| 13. | MANI MARAN . S | (Mani ..) |
| 14. | RAJA SEKAR | (Raja ..) |
| 15. | PRAKASHA | (Prakash ..) |
| 16. | JAYASEELAN | (Jayaseelan ..) |
| 17. | RENJANATHAN | Renganathan |
| 18. | ICABILAN | I. Gabilantintiha |
| 19. | RAJKUMAR. | S. Raj Kumar |
| 20. | RAMA KRISHNAN | Rama Krishnan |
| 21. | Pralagh | C. Pralagh |
| 22. | S. J. M. S. Coni | S. J. M. S. Coni |
| 23. | S. J. M. S. Coni | S. J. M. S. Coni |
| 24. | V. JEGESWARL - | V. JEGESWARL |
| 25. | S. Gunoot Singh | S. Gunoot Singh |
| 26. | S. Gunoot Singh | S. Gunoot Singh |
| 27. | P. B. D. D. L. C. L. D. P. B. D. D. L. C. L. D. | P. B. D. D. L. C. L. D. P. B. D. D. L. C. L. D. |
| 28. | T. P. B. D. D. L. C. L. D. | T. P. B. D. D. L. C. L. D. |
| 29. | Mr. Srinivas | Mr. Srinivas |
| 30. | V. Mariyam | 9151071386 |
| 31. | V. Mariyam | V. Mariyam |
| 32. | A. JESURAJ | A. Jesuraj |
| 33. | R. ARULANDHU | R. Arulandhu |

A.I.D.SENTHIL KUMARAN, M.E., Ph.D.,(HUS)
Principal
SSM Institute of Engineering and Technology
Kuttathupatti Village, Sindhalagundu (Po),
Palani Road, Dindigul - 624 062

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SSM INSTITUTE OF ENGINEERING & TECHNOLOGY

Village committee meeting



Date: 09-12-2019

| SL.NO | NAME | VILLAGE NAME |
|-------|------------------|---|
| | குட்டகைப்பாறை. | S |
| | S. மூஷங் | 9578089373 |
| | S. ராதி. | 8086916812 |
| | P. திருத்தமேஷ் | 9994377824 |
| | ஸ்ரீமாரியானநாதர் | 9578119196 |
| | சென்: வட்டவீரன் | 9360807916 |
| | N. ஸ்ரீமாரியான | 9788349466 |
| | T. உரங்கநாதன் | 8098398190 |
| | | 2/2 |
| | | Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (HUS) Principal SSM Institute of Engineering and Technology Ettathupatti Village, Sindlagundu (Po), Palani Road, Dindigul - 624 002. |



SSM INSTITUTE OF ENGINEERING & TECHNOLOGY

Village committee meeting



Puli arajaksha Date: 09-12-2019

• 09-12-2019

| SL.NO | NAME | VILLAGE NAME |
|-------|-------------------------|--------------|
| 1. | ம. பு. ராமசுவா | 9688588003 |
| 2. | V. MariaRaj | 9159075386 |
| 3. | A. சுப்ரீம் | 9976750844 |
| 4. | R. அனந்த | 9842589048 |
| 5. | க. கு. வி. வி. வி. வி. | 9865895058 |
| 6. | அனு | |
| 7. | A. கிருஷ்ணகுமார் | 9150438233 |
| 8. | தென்னக்குழல் | 9751990019. |
| 9. | திரு. வி. வி. | 7708163273 |
| 10. | கி. கி. கி. கி. கி. கி. | 9943736383 |
| 11. | க. க. க. க. க. க. | 9655371000 |
| 12. | க. க. க. க. க. க. | 9751315840 |
| 13. | க. க. க. க. க. க. | 9585269632 |
| 14. | க. க. க. க. க. க. | 9698850978 |



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Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS)
Principal
SSM Institute of Engineering and Technology
Ettathupattu Village, Sindugiridu (P.O),
Palam Road, Dindigul - 624 002



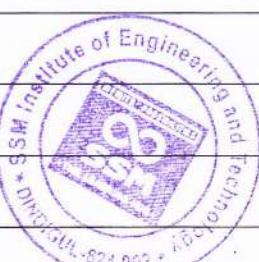
SSM INSTITUTE OF ENGINEERING & TECHNOLOGY

Village committee meeting



Date: 09-12-2019

MUTHANAMPATTY PUDUR.

| SL.NO | NAME | VILLAGE NAME |
|-------|---|---|
| 1. | RAJASEKAR. T | MUTTHANAMPATTY - 9629110194 |
| 2. | PRAKASH. C. | " - 8531844836 |
| 3. | RAJKUMAR. S. | " - 9944228855 |
| 4. | MANIMARAN. S. | " - 9965426260 |
| 5. | PREMKUMAR . S. | " - 9788233245 |
| 6. | GOWTHAM . S. | " - 9944750941 |
| 7. | PALANI . D. | " - 6381312751 |
| 8. | VENKATESH. V. | " - 9500723771 |
| 9. | JAYASELAN . N | " - 7502282310 |
| 10. | ASHOK . N | " - 9788349466 |
| 11. | KABILAN GT | " - 9360807916 |
| 12. | RAMAICRISHNAN. M | " |
| 13. | RENGANATHAN. T | " 8098398190 |
| 14. | MR NEHRUDHASAN. V. | " 9944319193 |
| |  |  Dr. D. SENTHIL KUMARAN, M.E., Ph.D., (MUSA) Principal SSM Institute of Engineering and Technology Kuttathupatti Village, Sindalagundu (P.O), Palani Road, Dindigul - 624 002 |



09.12.19

கிராமக் குழு கூட்டம்

நிறுவனத்தின் பெயர்

: எஸ்.எஸ்.எம் இன்ஸ்டிடியூட் ஆப்

இன்ஜினியரிங் அண்ட் டெக்னாலஜி-தின்னடுக்கல்

ஒருங்கிணைப்பாளரின் பெயர்: டாக்டர். து.செந்தில் குமரன்-முதல்வர் /

எஸ்.எஸ்.எம்.ஐ.டி. நிறுவனம்

ஏற்றுக்கொள்ளப்பட்ட கிராமங்களின் பெயர் :

குஞ்சனம்பட்டி

குட்டது ஆவாரம் பட்டி

முத்தனம் பட்டி

மைலாப்பூர்

பாலம் ராஜக்க பட்டி

தேதி மற்றும் நேரம்

: 09.12.2019 - காலை

இடம்

: ஸ்மார்ட் வகுப்பு அறை, பி-பிளாக்,

எஸ்.எஸ்.எம்.ஐ.டி

நிகழ்ச்சி நிரல்

: கிராம வளர்ச்சி குறித்து எஸ்.எஸ்.எம்.ஐ.டி

உன்னத் பாரத் அபியான் (யுபிஏ)

ஒருங்கிணைப்பாளர் கிராம நிர்வாகிகளுடன்

கலந்துரையாடல்



Dr. D. SENTHIL KUMARAN, M.E., Ph.D., [NUS]

Principal

SSM Institute of Engineering and Technology
Kuttathupatti Village, Sindhalagundu (Po),
Palani Road, Dindigul - 624 002.

சூட்ட அறிக்கை

- எஸ்.எஸ்.எம்.ஐ.டி உன்னத் பாரத் அபியான் (யுபிஏ) ஒருங்கிணைப்பாளர் கிராம பிரதிநிதிகளை வரவேற்றார்.
- யுபிஏ திட்டம் மற்றும் செயல் திட்டம் குறித்து ஒருங்கிணைப்பாளர் விளக்கினார்
- யுபிஏ என்பது ஒரு உள்ளடக்கிய இந்தியாவின் கட்டமைப்பை உருவாக்க உதவும் அறிவு நிறுவனங்களை மேம்படுத்துவதன் மூலம் கிராமப்புற மேம்பாட்டு செயல்முறைகளில் மாற்றத்தக்க மாற்றமாகும்.
- சவால்களை அடையாளம் காண்பதிலும், நிலையான வளர்ச்சியை விரைவுபடுத்துவதற்கான பொருத்தமான தீர்வுகளை உருவாக்குவதிலும் உயர் கல்வி நிறுவனங்கள் கிராமப்புற இந்திய மக்களுடன் இணைந்து பணியாற்ற உதவுவதே உன்னத் பாரத் அபியான்.
- யுபிஏ இலக்குகள்:

கிராமங்களின் முழுமையான வளர்ச்சியை நோக்கி செல்ல, இரண்டு முக்கிய களங்கள் உள்ளன.

மனித வளர்ச்சி:

- சுகாதாரம்
- கல்வி மற்றும் கலாச்சாரம்
- மதிப்புகள் மற்றும் கருத்து வளர்ச்சி
- திறன்கள் மற்றும் தொழில்முனைவு

பொருள் மேம்பாடு:

- கரிம வேளாண்மை மற்றும் மாடு சார்ந்த பொருளாதாரம்
- நீர் மேலாண்மை மற்றும் பாதுகாப்பு
- புதுப்பிக்கத்தக்க எரிசக்தி ஆதாரங்கள்
- கைவினைஞர்கள் மற்றும் கிராமப்புற தொழில்கள்
- உள்ளூர் இயற்கை வளங்களை மேம்படுத்துதல் மற்றும் பயன்படுத்துதல்
- அடிப்படை வசதிகள்



Dr. D. SENTHIL KUMAR, M.E., Ph.D., (NUS)

Principal

SSM Institute of Engineering and Technology

Kuttathupatti Village, Sindalagundu (Po),

முன்மொழியப்பட்ட திட்டம்:

எஸ்.எஸ்.எம்.ஐ.டி உன்னத் பாரத் அபியான் (யுபிர) ஒருங்கிணைப்பாளர் கிராம பிரதிநிதிகளுடன் தொடர்பு கொண்டு பின்வரும் சிக்கல்களை அடையாளம் கண்டுள்ளார்,

- நீர் சுத்திகரிக்கப்பட்ட (RO அமைப்பு)
 - தூரிய வீதி விளக்கு
 - கிராம கிராம பெண்களுக்கான சுய வேலைவாய்ப்பு பயிற்சி மையம்
 - பால் சேகரிப்பு மையம்
 - வடிகால் பிரச்சினை
 - பகுப்பாய்வு செய்யப்பட வேண்டிய கிணறு நிலை
-
- எஸ்.எஸ்.எம்.ஐ.டி உன்னத் பாரத் அபியான் (யுபிர) ஒருங்கிணைப்பாளர் பங்கேற்பாளர்களுக்கு நன்றி தெரிவித்தார்

B
—



A handwritten signature in black ink, appearing to read "Dr. D. Senthil Kumaran".

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



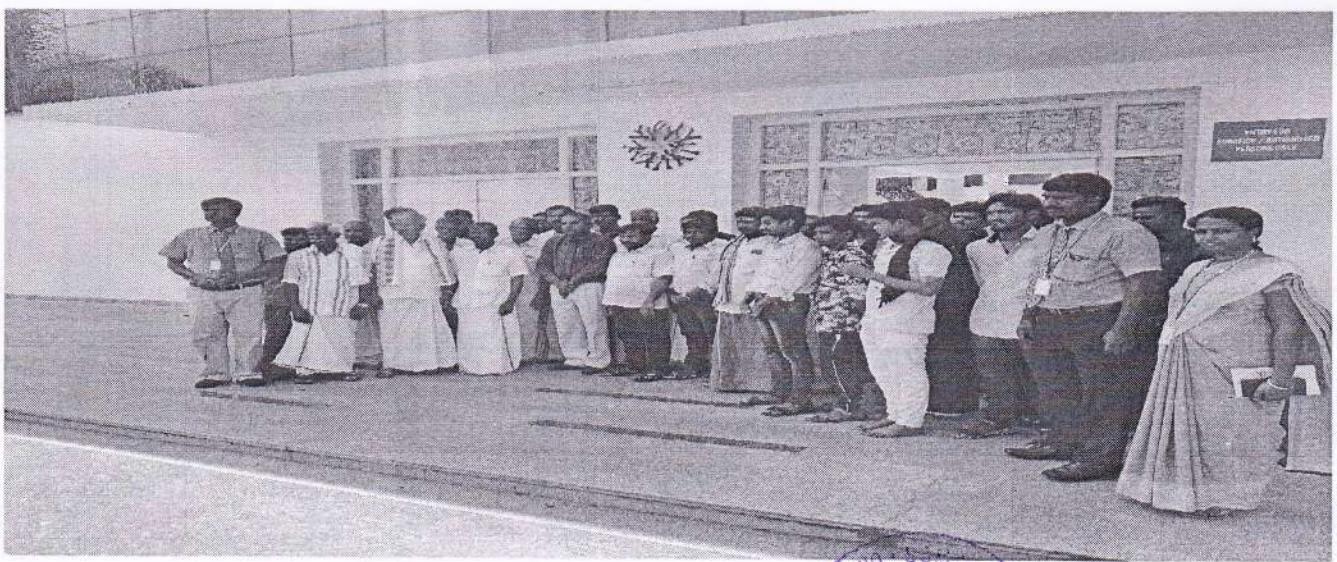
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Dindigul- Palani Highway, Dindigul – 624 002.

UBA (Unnat Bharat Abhiyan) Programme

Village Committee Meeting Photos



Staff In-charge

T. ARULKUMAR

UBA Coordinator

R. SENTHIL KUMAR



Principal

R. SENTHIL KUMAR, M.E., Ph.D., B.I.S.
Principal



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

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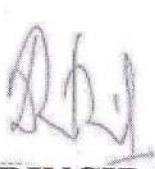
Dindigul – Palani Highway, Dindigul 624 002

Date: 23.01.2020

CIRCULAR

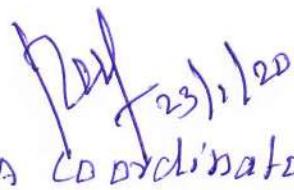
Unnat Bharat Abhiyan (UBA) of SSMIET is organising Village Visit to Adopted Villages for UBA Village Survey as per the following Schedule. The visit will be undertaken by the volunteers of UBA, SSMIET.

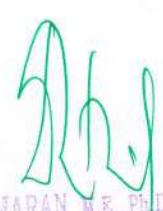
| Sl. No. | Day | Villages | No. of Students | Faculty Coordinators |
|---------|------------|-------------------------------|-----------------|---|
| 1. | 24.01.2020 | Mailapur & Palamrajakkappatti | 24 | Mr. R. Senthil Kumar Dr. V. Kandavel |
| 2. | 13.02.2020 | Kuttathu Avarampatti | 26 | Mr. R. Senthil Kumar Dr. G. Selvabhrarathi |


PRINCIPAL

Copy to: Chairman/ ED for kind Information

Administrative Officer


UBA Coordinator
23.01.2020


Dr. D. SENTHIL KUMAR, M.E., PH.D., (NUS)
Principal
SSM Institute of Engineering and Technology
Kuttathupatti Village, Sindalagundu (P.O),
Palani Road, Dindigul - 624 002.



Requisition Letter

23.01.2020

From

S.Bharathi,AP/CSE
SSM-UBA Member
SSMIET,
Dindigul

To

The Principal,
SSMIET,
Dindigul

Respected Sir,

Sub-Requisition of Transportation and food for UBA-village survey-Reg.

This is to bring to your kind notice that our college UBA student volunteers and five of our faculty members are going for village survey to **Mailapur and Palamrajakkappatti** on **24.01.2020**. It will be grateful on your part to provide transport for the same. We are in need of **two buses** with driver from 9.30 am to 4.00 pm.

Thanking You,

Yours faithfully

Ao

UBA acc/ head, pl

D 23/1/20

DR. S. R. KUMARAN
23/1/2020

Dr.D.SENTHIL KUMARAN, M.E., Ph.D. (HUS)
Principal
SSM Institute of Engineering and Technology
Kattaiyuratti Village, Suntiampatti P.O.
Palan Road, Dindigul - 624 002.



Requisition Letter

23.01.2020

From

S.Bharathi, AP/CSE
SSM-UBA Member
SSMIET,
Dindigul

To

The Principal,
SSMIET,
Dindigul

Respected Sir,

Sub-Requisition of taking photocopies for UBA-village survey-Reg.

This is to bring to your kind notice that our college UBA student volunteers and five of our faculty members are going for village survey to **Mailapur** and **Palamrajakkapatti** on **24.01.2020**. We are in need of 1500 survey forms to cover both villages. It is in need to photocopy the village survey forms. Kindly permit us for the same.

Thanking You,

Yours faithfully

Ao

UBA ac/ready/pl

Dw/bs



23/1/2020

Dr. P. S. S. M. I. E. T., M. Sc., Ph.D., B.Ed.
Principal
SSM Institute of Engineering and Technology
Kudimangudi Village, Endalagundu (Po),
Palanam Road, Dindigul - 624 002.



Requisition Letter

23.01.2020

From

S.Bharathi,AP/CSE
SSM-UBA Member
SSMIET,
Dindigul

To

The Principal,
SSMIET,
Dindigul

Respected Sir,

Sub-Requisition of flex for UBA-village survey-Reg.

This is to bring to your kind notice that our college **UBA** student volunteers and five of our faculty members are going for village survey to **Mailapur and Palamrajakkapatti on 24.01.2020**. To exhibit the UBA programme through our institution a flex is need to be displayed.Kindly extend your support for the same.

Thanking You,

Yours faithfully

gbsl fl
23/1/2020

Ab
UBA acc/head

A
23/1/20

Dr.D.SENTHIL KUMARAN, M.E., Ph.D., INUS
Principal
SSM Institute of Engineering and Technology
Tettaihupatti Village, Sindalagudu (Pc),
Palani Road, Dindigul - 624 002.



Requisition Letter

23.01.2020

From

S.Bharathi,AP/CSE
SSM-UBA Member
SSMIET,
Dindigul

To

The Principal,
SSMIET,
Dindigul

Respected Sir,

Sub-Requisition of food for UBA-village survey-Reg.

This is to bring to your kind notice that our college **UBA** student volunteers and five of our faculty members are going for village survey to **Mailapur** and **Palamrajakkappatti** on **24.01.2020**. Kindly provide the food for the volunteers. We are in need of **50 packs** of lunch.

Thanking You,

Yours faithfully

DR. D. SENTHIL KUMARAN
23/01/2020

To
Under UBA account head, pl.

D
23/01/20

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



Requisition Letter

12.02.2020

From

S.Bharathi,AP/CSE
SSM-UBA Member
SSMIET,
Dindigul

To

The Principal,
SSMIET,
Dindigul

Respected Sir,

Sub-Requisition of Transportation and food for UBA-village survey-Reg.

This is to bring to your kind notice that our college UBA student volunteers and five of our faculty members are going for village survey to **Kuttathu Avarampatti** on **13.02.2020**. It will be grateful on your part to provide transport for the same. We are in need of one bus with driver from 9.30 am to 4.00 pm.

Thanking You,

Yours faithfully

8811612120
12.02.2020

Ao
Pl permit
A 1222

Dr.D.SENTHIL KUMARAN, M.E., Ph.D., [FUS]
Principal
SSM Institute of Engineering and Technology
Kuttathupatti Village, Sindhalagundu P.O,
Palam Road, Dindigul - 624 002.



Requisition Letter

12.02.2020

From

S.Bharathi,AP/CSE
SSM-UBA Member
SSMIET,
Dindigul

To

The Principal,
SSMIET,
Dindigul

Respected Sir,

Sub-Requisition of food for UBA-village survey-Reg.

This is to bring to your kind notice that our college **UBA** student volunteers and two of our faculty members are going for village survey to **Kuttathu Avarampatti** on **13.02.2020**. Kindly provide the food for the volunteers. We are in need of 40 packs of lunch.

Thanking You,

Yours faithfully

*SBK the
12/02/2020*

D.S.K

Dr.D.SENTHIL KUMARAN, M.E., Ph.D.,(NUS)
Principal
SSM Institute of Engineering and Technology
Kuttathupatti Village, Sindalagundu (Po),
Palam Road, Dindigul - 624 082.





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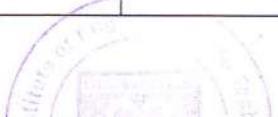
Dindigul – Palani Highway, Dindigul 624 002

Unnat Bharat Abhiyan

23.01.2020

List of Volunteers – Village Visit for UBA Village Survey

| Sl. No. | Date | Register Number | Department | Name of the Student |
|---------|------------|-----------------|------------|-----------------------|
| 1 | 24.01.2020 | 922119105023 | EEE | NAGARANI M |
| 2 | 24.01.2020 | 922119105006 | EEE | DHEEPAN KUMAR G |
| 3 | 24.01.2020 | 922119105007 | EEE | DHILIP LAKSHMAN V |
| 4 | 24.01.2020 | 922119105008 | EEE | ESHWAR J |
| 5 | 24.01.2020 | 922119105009 | EEE | GNANA AROCKYA AMALI B |
| 6 | 24.01.2020 | 922119105010 | EEE | GOKULA PANDIYAN A |
| 7 | 24.01.2020 | 922119105011 | EEE | HARINI M |
| 8 | 24.01.2020 | 922119105013 | EEE | HEMALATHA S |
| 9 | 24.01.2020 | 922119105014 | EEE | KARTHIKEYAN B |
| 10 | 24.01.2020 | 922119105016 | EEE | KRISHNA LEELA S |
| 11 | 24.01.2020 | 922119103001 | CIVIL | S. ABUL BAJAR |
| 12 | 24.01.2020 | 922119103004 | CIVIL | M. HEMARAJ |
| 13 | 24.01.2020 | 922119103008 | CIVIL | P. POORNACHANDRAN |
| 14 | 24.01.2020 | 922119103014 | CIVIL | R. SIVA |



D.D.SENTHIL KUMARAN M.E., Ph.D.
D.D.SENTHIL KUMARAN M.E., Ph.D.

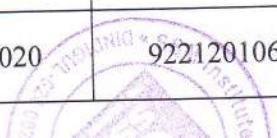


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| | | | | |
|----|------------|--------------|-------|------------------------|
| 15 | 24.01.2020 | 922119103017 | CIVIL | A. P. K. YOGESH ARASAN |
| 16 | 24.01.2020 | 922119105024 | EEE | NASEER HUSSAIN S |
| 17 | 24.01.2020 | 922119105026 | EEE | PREETHIKA J |
| 18 | 24.01.2020 | 922119105027 | EEE | PUNITHA VIJAYASRI P |
| 19 | 24.01.2020 | 922119105028 | EEE | RAJESH MANI K |
| 20 | 24.01.2020 | 922119105029 | EEE | RESHMA P |
| 21 | 24.01.2020 | 922119105030 | EEE | RISHIKARAN R |
| 22 | 24.01.2020 | 922119105037 | EEE | SRI VARSHAN K |
| 23 | 24.01.2020 | 922119105038 | EEE | SURIYA SELVAM I |
| 24 | 24.01.2020 | 922119105039 | EEE | VAISHNAVI C |
| 25 | 13.02.2020 | 922119105040 | EEE | VINITH PRAVEEN KUMAR V |
| 26 | 13.02.2020 | 922119105041 | EEE | VINOOTH KUMAR S |
| 27 | 13.02.2020 | 922119105042 | EEE | VISWAA J |
| 28 | 13.02.2020 | 922119105301 | EEE | AKASH A |
| 29 | 13.02.2020 | 922119105302 | EEE | BAVADHARANI U |
| 30 | 13.02.2020 | 922119105303 | EEE | BHARATHKUMAR K |
| 36 | 13.02.2020 | 922120106052 | ECE | SABITHA M V |
| 37 | 13.02.2020 | 922120106059 | ECE | SHANMUGARAJA K |



Dr. D. SENTHIL KUMARAN, M.E., Ph.D., [NUC]

Principal



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| | | | | |
|----|------------|--------------|-----|------------------------|
| 38 | 13.02.2020 | 922120106067 | ECE | SUBASHREE M |
| 39 | 13.02.2020 | 922120106068 | ECE | SUGASH A |
| 40 | 13.02.2020 | 922120106069 | ECE | SUGUNTHON G |
| 41 | 13.02.2020 | 922120106070 | ECE | SURENDHAR NATH K |
| 42 | 13.02.2020 | 922120106071 | ECE | TERRANCE RITHIK ARON S |
| 43 | 13.02.2020 | 922120106060 | ECE | SIVARAJ M |
| 44 | 13.02.2020 | 922120106064 | ECE | SOWMYA S |
| 45 | 13.02.2020 | 922120106065 | ECE | SRI SATHYA NARAYANAN |
| 46 | 13.02.2020 | 922120106066 | ECE | SUBASH PANDI R |
| 47 | 13.02.2020 | 922120106061 | ECE | SIVASANKAR K |
| 48 | 13.02.2020 | 922120106062 | ECE | SONALI M |
| 49 | 13.02.2020 | 922120106063 | ECE | SOWMIYA S |
| 50 | 13.02.2020 | 922120106048 | ECE | PRIYANKA S |



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Principal



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15.02.2020

UBA Village Survey Report

Village survey was conducted in cluster villages of SSM Institute of Engineering and Technology (SSMIET) under Unnat Bharath Abhiyan (UBA) Scheme of Government of India. The Villages covered under the survey were Mailapur & Palamrajakkappatti on 24.01.2020 & Kuttathu Avarampatti on 13.02.2020. The volunteers for the survey were students of SSMIET and were segregated based on their departments for the visit. II and III year students who were interested took part in the survey work voluntarily. The first survey work was done by Civil & EEE students. The second day survey was handled by the students of ECE & EEE. The entire survey was coordinated by Mr. Senthil, Assistant Professor/ ECE. He was accompanied by the respective department UBA coordinators during the visit.

The visit was arranged to start by 9.30 am from SSMIET campus in college bus. The Coordinator and respective department UBA coordinators accompanied the students of the day. Lunch was arranged in the village with the help of village heads. It was planned to return to college with 3.30 pm so as to conclude the visit within college hours. The Students were instructed beforehand to follow necessary precautions during the survey work by the Principal of SSMIET in an introductory meeting on 23.01.2020.

The Performa of UBA mandated for village survey was utilized under the guidelines of UBA. The village heads cordially extended their cooperation for this measure. The survey aimed to collect essential data, assess the living conditions, and identify the needs and challenges faced by the residents of the village. The survey was conducted as a door to door campaign with students visiting each house in the village and filling the details on behalf of the villagers. The villagers were very cooperative.

The two-day village survey provided valuable insights into the living conditions, challenges, and needs of the residents of villages. The data collected will serve as a foundation for future development projects and initiatives aimed at improving the quality of life in the villages for the UBA SEG projects. It is crucial to work collaboratively with the local community and government agencies to address the identified issues and uplift the standard of living in the villages under UBA.



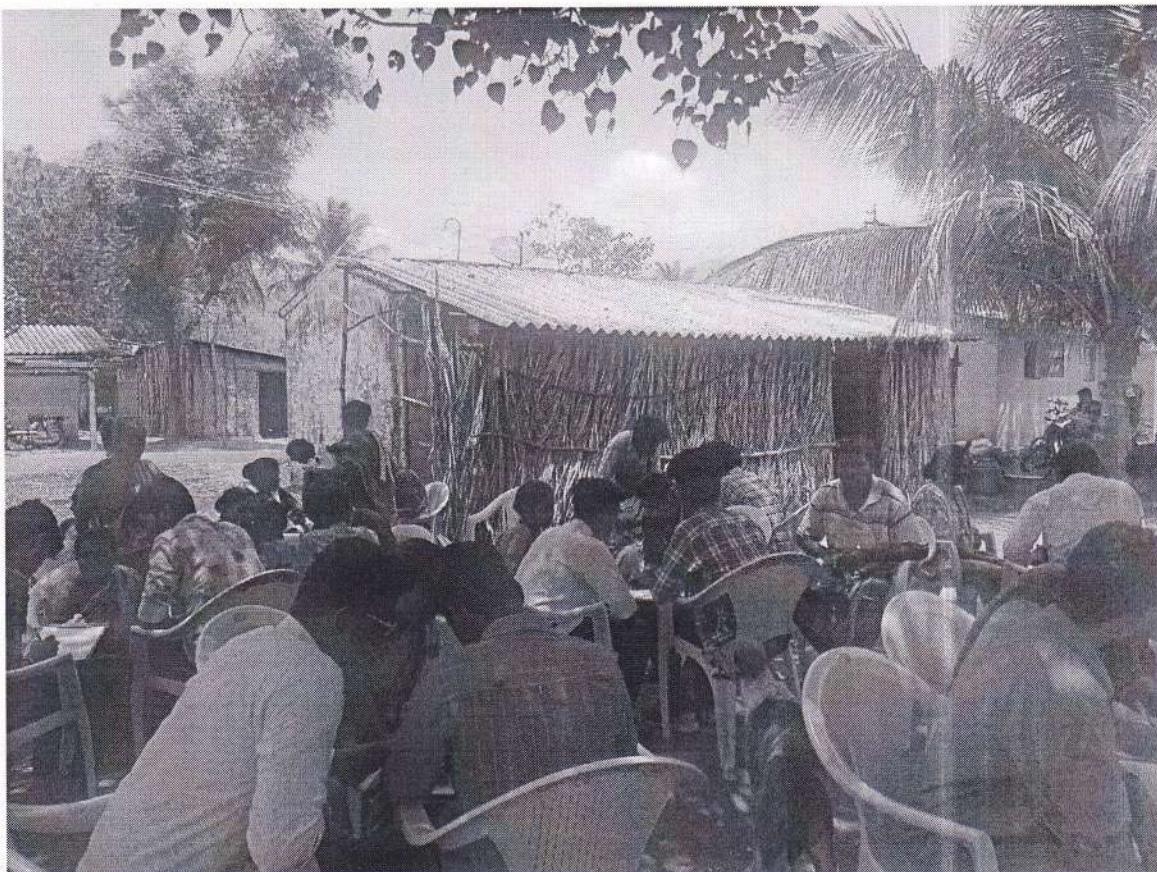

Dr. D. SENTHIL KUMARAN, M.E., Ph.D., (NUS)
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Kattampatti Village, Soodugundu (Po),
Palani Road, Dindigul - 624 002.



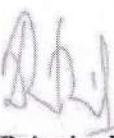
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Dr. D. SENTHIL KUMARAN, M.E., Ph.D., (IUS)
Principal
SSM Institute of Engineering and Technology
Ananthamuthu Village, Sundagundam (P.O),
Dindigul, Tamil Nadu, India 624 002.


Principal



**SSM INSTITUTE OF ENGINEERING
AND TECHNOLOGY**

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CIRCULAR

16.09.2021

Under the UBA activity our college (SSMIET) and Sarada Krishna Homoeopathy medical college (Kulasekharam) jointly conducts a awareness program on "Azadi ka Mahotsav" (Homeopathy medicine of covid'19) for school students. They are having learned bitter lessons in its battle against COVID-19 during the second wave, the official machinery, which anticipates the 'third wave', has started intensifying awareness programme.

Participant: St. Francis Matriculation Higher secondary school Students

Date : 18.09.2021 (Saturday)

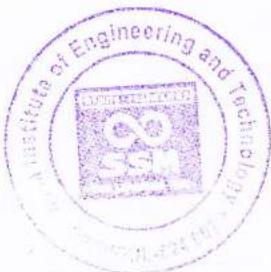
Venue : St. Francis Matriculation Higher secondary school campus

Dr. S. Senthil Kumar
Program Co-ordinator

R. SENTHIL KUMAR
(R. SENTHIL KUMAR)

Dr. D. Senthil Kumar
UBA Co-ordinator

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



From

The Headmaster,

தலைமும்யாசிரியர்
புனித பிராந்தில் கேவியர் மேல்நிலைப் பள்ளி
க.ஆவுரம்பட்டி துடுத்துப்படி (ஈ0)
தீவுக்குக் - 2

To

The Principal,

Sarada Krishna Homoeopathic Medical College,
Kulasekharam,
Kanniyakumari District-629161.

Sir/Madam,

Sub: Co-operation for “Azadi Ka Mahotsav” Activities under AYUSH- Streams

I..... P.S. Lakshikaandabaradi Headmaster ,

I..... C. Avarampatti

Hereby give my consent for participating by involving students of this school (as per list attached) with the activities related to AYUSH streams as part of the “Azadi Ka Amrit Mahotsav” a programme of Govt. of India. Ministry of AYUSH to be conducted by Sarada Krishna Homoeopathic Medical College Kulasekharam Kanniyakumari District. Tamilnadu- 629161.

Place: C. Avarampatti

Date : 18/9/21



V. Jeen
18/9/21

தலைமும்யாசிரியர்
புனித பிராந்தில் கேவியர் மேல்நிலைப் பள்ளி
க.ஆவுரம்பட்டி துடுத்துப்படி (ஈ0)
தீவுக்குக் - 2



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul- Palani Highway, Dindigul – 624 002

UNNAT BHARAT ABHIYAN

| SI.NO | STUDENTS NAME | GROUP | CLASS | CELL NO | SIGN |
|-------|---------------------|-----------|-----------|-------------|-------------------|
| | E.Brindha jadmine | science | XII 10 | 9629475686 | E.Brindha jadmine |
| | A.Deepika | Science | XII | 86757050303 | A.Deepika |
| | P.Janani | Bio-Maths | XII | 9688066943 | P.Janani |
| | D.Nisha marg | Science | XII | 9940944958 | D.Nisha |
| | V.Roja mistika | Science | XII | 6381946578 | V.Roja |
| | D.Diyana | Science | XII | 9487791034 | D.Diyana |
| | D.Vimala Esther | Science | XII | 8940342997 | D.Ester |
| | J.Sneka | Science | XII | 9787010506 | J.Sneka |
| | S.Thirisha Jennat | Science | XII | 9095130674 | S.Thirisha |
| | R.Renjitha Catherin | Science | XII | 9095569875 | R.Renjitha |
| | A.Maria Pavithra. | Science | XII | 7373503199 | A.Pavithra |
| | M.Merline | Science | XII | 8610916507 | M.Merline |
| | J.Nancy | Science | XII | 9626769317 | J.Nancy |
| | A.Ester Jerima | Science | XII | 9385744397 | A.Ester |
| | K.Fathima Daisy | Bio-maths | XII | 8675520088 | K.Fathima |
| | M.SATHYA | Science | XII | 87649789418 | M.SATHYA |
| | A.Nancy sweeta | Science | XII | 7904647537 | A.Nancy sweeta |
| | M.Inbavathy | Bio-Maths | XII | 8154348667 | M.Inbavathy |

U-Jenni
18/9/21

R.L



துவக்கமயாசிரியர்
 முனித் பிரான்சிஸ் ஜேனியர் மெல்நீலம் பார்ட் Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS)
 த.அவைப்பூர், தொட்டுப்பூர் (PO)
 தின்டுக்கல் - 2

SSM Institute of Engineering and Technology
 Kuttathangatti Village Sindhlajamundru (Pal).

Principal



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul- Palani Highway, Dindigul – 624 002

UNNAT BHARAT ABHIYAN



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul- Palani Highway, Dindigul – 624 002

UNNAT BHARAT ABHIYAN

| SI.NO | STUDENTS NAME | GROUP | CLASS | CELL NO | SIGN |
|-------|-----------------------|-----------|-------|-------------------------|------------------|
| 1. | M.Gwathi ^o | Science | XI | 9952251012 | Q |
| 2. | A.Belsika | BIO maths | XI | 8825794826 | A.Belsika |
| 3. | P.Haritham | BIO maths | XI | 7305119660 | P.Haritham |
| 4. | A.Sneha | science | XI | 9159990152 | A.S |
| 5. | A.Kavitha Raju | science | XI | 9095034240 | A.K |
| 6. | V.Gowri | BIO maths | XI | 9655888563 | V.G |
| 7. | A.Bhuwanika Devi | Science | XI | 7639971081 | A.Bhuwanika |
| 8. | R.Dhingosekiya | science | XI | 9698856380 | R.D |
| 9. | T.Lilly pushpam | science | XI | 9159560972 | T.Lillypushpam |
| 10. | M.Donsushmitha | science | XI | 9655993046 | M.Sushmitha |
| 11. | S.Akila mirshad | BIO maths | XI | 8760055757 | S.Akila mirshad |
| 12. | A.Aneta Rosy | science | XI | 9591471108 | A.R |
| 13. | S.Arrockia Princy | BIO maths | XI | 7502477536 | S.P |
| 14. | A.Sharmila Angel | BIO maths | XI | 9750486374 | A.S. |
| 15. | S.Nithya Sri | science | XI | 688463 ²² 02 | S.Nithya Sri |
| 16. | A.Merlin Joys | science | XI | 9994842579 | A.Merlin Joys. |
| 17. | V.Arrockia Abina | science | XI | 9159222705 | V.Arrockia Abina |
| 18. | J.Julyn | science | XI | 9361961346 | J.Julyn |
| 19. | L.Arrockia Lavanya | science | XI | 9994578255 | Lavanya. |
| 20. | A.Josephine | science | XI | 9655875388 | A.Josephine |
| 21. | M.Gathin kaviranga | Science | XI | 9344258718 | M.Gathin. |
| 22. | J.Rohith Antony | BIO maths | XI | 8973571067 | J.Rohith |
| 23. | A.Justin John | BIO maths | XI | 9994879183 | A.Justin |

J.-Jenner 1897

SCHOOL HEAD MASTER SIGN/SCHOOL NAME

திவாலங்கயாவாயை
புளித் பிரகாந்திஸ் கேவியர் மேஸ்நிலைப் பள்ளி
த.ஏவரம்பட்டி குடும்பத்துப்பட்டி (கோ)
கிளங்கீல் - 2



264

COLLEGE PRINCIPAL SIGN

S. KUMARAN,

Principal

SSM Institute of Engineering and Technology

Zillitalupatti Village, Sindalagundi (Po)

Palam Road, Dindigul - 624 002.

Awareness Programmeon Homoeopathy to school going Children in Tamil nadu

-ConceptNote-

1. Introduction

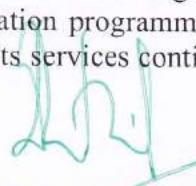
The 21st century is very expeditious, making life easy with innovations and advancements in every field of life. So, it becomes necessary to gain information and awareness on health with other contemporary knowledge. Children are considered to be the future trend setters; proper education and awareness will definitely nurture and stimulate them effectively. India has the world's largest child population, about 40% of the total population. The young school going children are the proprietor of mind with creativity and productivity.

It is easy to nurture young minds by inculcating new ideas and witness its benefits in the future through their behavior. Creating awareness among school going children will create a great impact on family as well as friends. The Homoeopathy system of medicine famously known as sweet pills though used by most of the people of all age group, there is yet another population unaware about this system of medicine. The Ministry of AYUSH, Govt. of India has developed many schemes and programmes to create awareness about Indian system of Medicine and Homoeopathy(AYUSH)among the general population through various medium. Capturing the attraction of the Young buds plays a vital role for development of the system. As it can inspire the young minds to develop better ideas about the alternative system of medicines, benefits including scope and limitations of complication free Homoeopathic system and choose the career in path either to support or develop the system.

The fundamental reasons for involving the school students:

- Present-day students will be tomorrow's beneficiaries.
- By understanding the status of health systems available in the country students could develop a sense towards its development.
- Students have a role in utilizing their creativity, technologies, and inter-connectedness to bring innovative ideas for development of the system for therapeutics, education or research.
- For the empowerment and well-being of young people.

Sarada Krishna Homoeopathic Medical College, Kulasekharan is regularly conducting School Health programmes and Health education programmes as part of its community programme (extension activities). Its services continued



as preventive and curative health care services during the outbreak of COVID-19 Pandemic. Government of India as part of its celebration of India's 75th Independence "AzadikaAmritMahotsav" intoralia issued guidelines for conducting AYUSH related activities by associating 75000 schools across the nation to spread AYUSH systems of Medicine and AYUSH medical streams. As per the direction of National Commision for Homoeopathy and Ministry of AYUSH, Sarada Krishna Homoeopathic Medical Collegehas decided to conduct Awareness Programmes on Homoeopathy among Primary, Middle and Senior Secondary School children in collaboration Regional Co-ordinating Institute, Unnat Bharat Abhiyan – The Gandhigram Rural Institute.

2. Objectives

- To make the students to aware about the basics of AYUSH systems of Medicine and AYUSH Medical streams.
- To create awareness aboutbenefits and strengths Homoeopathic system of Medicinein patient care.
- To develop young creative ideas for innovative technology based development of the system and foster health conscious culture in the society.
- To disseminate knowledge about Health care services like AYUSH and Homoeopathy.
- To explore and utilize the profound health benefits of Homoeopathy.

3. DurationoftheProgramme

The duration of the Programmesshall be one year, from 15.08.2021 to 14.08.2022 through online medium.

4.Methodologyofthe Programme

The Programme is designed for the students of Primary, Middle and Senior Secondary Schools in Tamilnadu. Details of the students to the associated and consent of the concerned schools have to be collected.

The Subject experts from Sarada Krishna Homoeopathic Medical College - Faculty Members, PG scholars and Interns will beorganizing the awareness programme with the technical support of Regional Co-ordinating Institute, Unnat Bharat Abhiyan – The Gandhigram Rural Institute to create awareness about AYUSH and Homoeopathy all over Tamilnadu. The Programme consists of (1) Getting permission from the District administrator(2) discussion with the teachers & Head masters(3)2 hours online



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Principal

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session on Homoeopathy among middle and senior secondary school children covering various aspects of Homoeopathy – Introduction to AYUSH & Homoeopathy, Benefits of Homoeopathic system of Medicine, Present scenario of Homoeopathic system, Homoeopathic health care dissemination, New ideas to promote Homoeopathy for day to day health issues [learner centrically designed]. The reports of the programme conducted will be submitted weekly to the Head of the Institution.

5. LearningOutcomes:

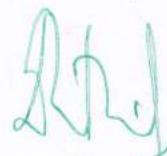
This Programme gives importance to create awareness to school children about Homoeopathy in the field of Therapeutics, Education as well as Research. Involving PG scholars and Interns of the College will improve social responsibility and community engagement among the future Health service providers.

After completing this programme, it is expected that, the students will be able to:

- ✓ gain knowledge about AYUSH and Homoeopathy.
- ✓ get idea about benefits of Homoeopathic medicine, dissemination of Homoeopathic system of medicine.
- ✓ understand the present scenario of AYUSH and Homoeopathic system of Medicine.
- ✓ choose suitable system for the treatment of their illness
- ✓ promote Homoeopathy system of Medicine to others by understanding its scope and limitations for day to day health issues.
- ✓ get confidence and hope to take Homoeopathic medicine
- ✓ select a career in Homoeopathy with courage

After completing this programme it is expected that, the Students involved in organizing and conducting the awareness programme will be able to:

- ✓ foster a sense of social responsibility and empathy for the community.
- ✓ understand their role in Homoeopathic health care services dissemination
- ✓ gain an understanding of social realities
- ✓ understand the missing link
- ✓ identify opportunities for the development of Homoeopathic system of Medicine.



3

Dr. D. SENTHIL KUMARAN, M.E., Ph.D., (NUS)

Principal

SSM Institute of Engineering and Technology

Kuttatupatti Village, Sindlagundu (Po),

Taluk - Doddipadi, Dist - Mysore - 574 002



5. Learning Outcomes:

This Programme gives importance to create awareness to school children about Homoeopathy in the field of Therapeutics, Education as well as Research. Involving PG scholars and Interns of the College will improve social responsibility and community engagement among the future Health service providers.

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- ✓ understand the present scenario of AYUSH and Homoeopathic system of Medicine.
- ✓ choose suitable system for the treatment of their illness
- ✓ promote Homoeopathy system of Medicine to others by understanding its scope and limitations for day to day health issues.
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- ✓ select a career in Homoeopathy with courage

After completing this programme it is expected that, the Students involved in organizing and conducting the awareness programme will be able to:

- ✓ foster a sense of social responsibility and empathy for the community.
- ✓ understand their role in Homoeopathic health care services dissemination
- ✓ gain an understanding of social realities
- ✓ understand the missing link
- ✓ identify opportunities for the development of Homoeopathic system of Medicine.

Principal & UBA Coordinator

Dr.D.SENTHIL KUMARAN, M.E., Ph.D., [NUS]
Principal

SSM Institute of Engineering and Technology
Kuttathupatti Village, Sindalagundi (Po),
Palani Road, Dindigul - 624 002



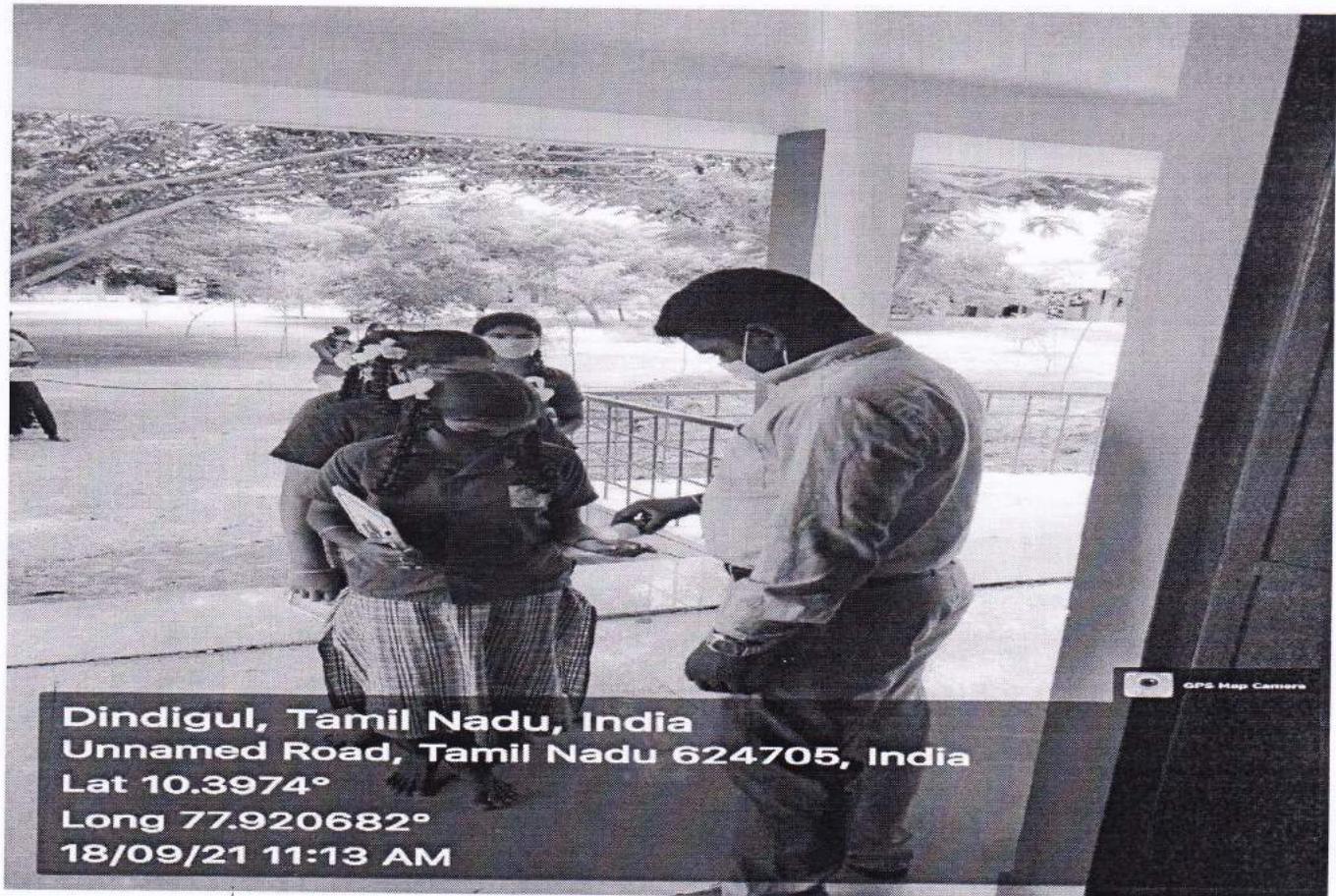


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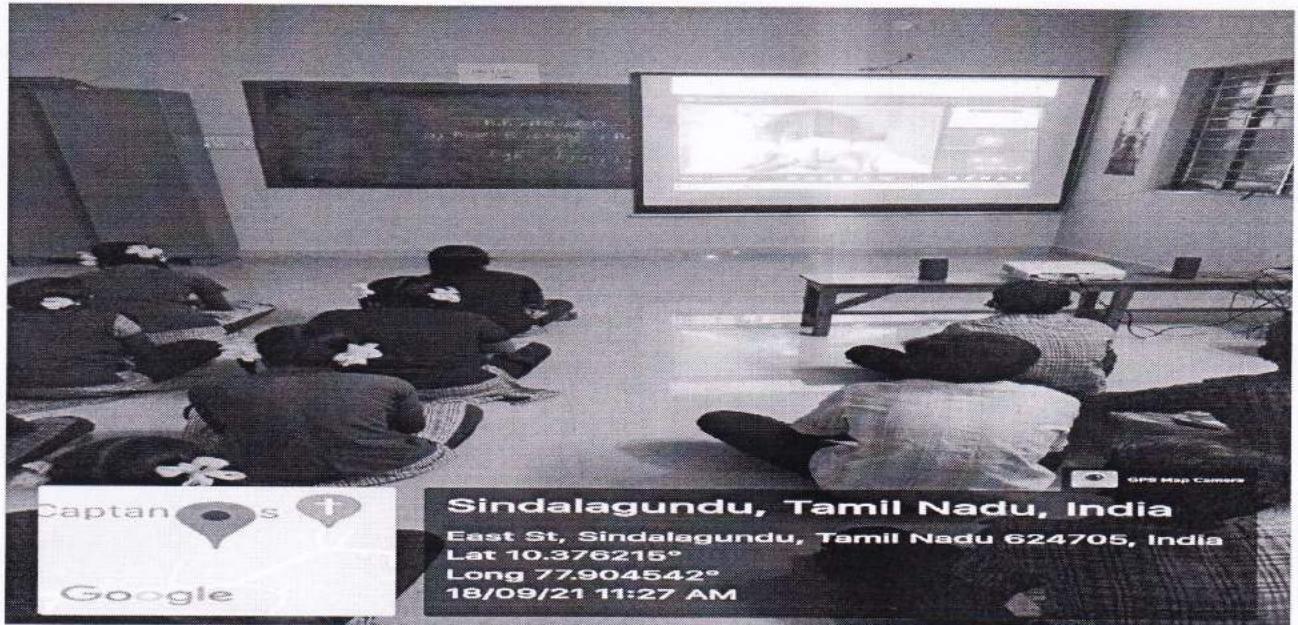
PHOTOS



Dindigul, Tamil Nadu, India
Unnamed Road, Tamil Nadu 624705, India
Lat 10.3974°
Long 77.920682°
18/09/21 11:13 AM



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



Dr.D.SENTHIL KUMARAN, M.E., Ph.D.,(NUS)
Principal
SSM Institute of Engineering and Technology

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Dindigul – Palani Highway, Dindigul – 624 002

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Date:10. 02.2022

Make every day an Earth day

Circular

Our college **SSMIET** is actively participating in the "**Make every day an Earth day**", a nationwide initiative in collaboration with the Green Terre Foundation and the All India Council Technical Education (AICTE). As part of this endeavor, a special Tree Adaptation and Sapling Plantation Program is going to be organized on 12.02.2022 all the students are invited to join in this meaningful and impactful initiative.

The Students participation is encouraged to create a greener and more sustainable future for ourselves and the generations to come. Student's participation in this program is not only a contribution to the environment but also a powerful statement about our commitment to addressing climate change.

The Student's active participation and support are invited in making **Make every day an Earth day** a resounding SUCCESS.

K.D
10/2/22

Program Co-ordinator

Mrs.K.Divya

R.S
UBA Co Ordinator

Principal



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



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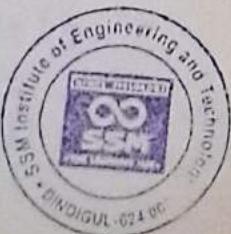
Dindigul – Palani Highway, Dindigul – 624 002

Participants Name list

| S.No | Name | Branch | Signature |
|------|------------------------|--------|-----------------------|
| 1 | AARTHY K P | ECE | Aarthry. |
| 2 | ABILASH M | ECE | Abulash |
| 3 | AISHWARYA K | ECE | K. Aishwarya. |
| 4 | AISWARYA B | ECE | B.A. |
| 5 | AKASH E | ECE | E. Akash. |
| 6 | ARAVINDKUMAR D | ECE | D. Aravind. |
| 7 | ARULMURUGAN S | ECE | Anbumurugan.s |
| 8 | BALAJI S | ECE | S. |
| 9 | BALAJIPRASANTH G | ECE | Balajiprasanth. |
| 10 | BHUVANESWARI A | ECE | A. Bhuvaneswari. |
| 11 | SRI SATHYA NARAYANAN | ECE | Sathya. |
| 12 | SUBASH PANDI R | ECE | Subash. |
| 13 | SUBASHREE M | ECE | Subashree. |
| 14 | SUGASH A | ECE | A. Sugash. |
| 15 | SUGUNTHON G | ECE | G. Sugunthon. |
| 16 | SURENDHAR NATH K | ECE | Surendhar. |
| 17 | TERRANCE RITHIK ARON S | ECE | Rithik. |
| 18 | THANGARAJ R | ECE | R. Thangaraj. |
| 19 | UMA PRIYADHARSHINI J | ECE | J. Umapriyadharshini. |
| 20 | VAISHNAVI P K | ECE | Vaishnavi. |
| 21 | NAGADHARSHINI G | ECE | Nagadharshini. |
| 22 | AGIL MARIVALAN J | ECE | Agil Marivalan. |
| 23 | LOYALAN LOGESH RAJA J | ECE | Logesh Raja. |
| 24 | JEEVITHA S | ECE | S. Jeevitha. |

| | | | |
|----|-------------------|-----|--------------------|
| 25 | JOELGODFREY T | ECE | T. (Signature) |
| 26 | KANIMOZHI P | ECE | P. (Signature) |
| 27 | ARCHANA ROY A | ECE | Archana Roy A. |
| 28 | ARUL KARTHIK | ECE | Arul Karthi |
| 29 | ARUL NANDHINI R | ECE | Nandhini R. |
| 30 | ARUN KARTHIK N.R | ECE | Arun Karthi N.R. |
| 31 | FEBRONIA J | ECE | Febronia J. |
| 32 | GAJENDRAN B | ECE | B. (Signature) |
| 33 | GEETHAMAI | ECE | Geethamai. |
| 34 | GOKUL VINAYAGAM M | ECE | Gokul Vinayagam M. |
| 35 | KEERTHIVASAN V | ECE | Keerthivasan V. |
| 36 | KIRUBA NANDHINI M | ECE | Kiruba NANDHINI M. |
| 37 | KIRUTHIKA S | ECE | Kiruthika S. |
| 38 | KISHORE S | ECE | Kishore S. |
| 39 | SITHARA R | ECE | R. (Signature) |
| 40 | SIVA KUMARS S | ECE | Siva kumars S. |
| 41 | SNEHA S | ECE | Sneha S. |
| 42 | SNEKA R | ECE | Sneka R. |
| 43 | SOWMIYA M | ECE | Sowmiya M. |
| 44 | JANASUJITH M | ECE | Janasujith M. |
| 45 | JEEVAN J | ECE | Jeevan J. |
| 46 | JOVITTA A | ECE | Jovitta A. |
| 47 | KALAIYARASAN P | ECE | Kalaiyarasan P. |
| 48 | PRIYADHARSHINI T | ECE | Priyadarshini T. |
| 49 | PRIYANKA S | ECE | Priyanka S. |
| 50 | RAJAPANDIYAN P | ECE | Rajapandiyan P. |

Dr. D. SENTHIL KUMARAN, M.E., Ph.D. (M.S.I.T.)
Principal
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Unnat Bharat Abhiyan – SSMIET

25.02.2022

Report on Tree Plantation in Adapted Villages under UBA

The Tree Plantation Program organized by Unnat Bharat Abhiyan (UBA) of SSM Institute of Engineering and Technology (SSMIET) Dindigul aimed to create awareness on Make every day an Earth day. On February 12,2022, the institute successfully planned 100 saplings in the adapted village of UBA - **Nachikondampatti** as the part of their commitment to social responsibility and environmental conservation.

The primary objective of the tree planting program was to sensitize the local communities to the impacts make every day as a earth day and emphasizes the role of tree in mitigating these effects. By actively involving the community in planting saplings, the initiatives aimed to foster a sense of ownership and responsibility towards the environment.

The program was executed in the adapted villages under the Unnat Bharat Abhiyan, strategically chosen to maximize the impact of the tree plantation initiative in the locality of the Institute thus serving the local community. The selected village was identified based on their environmental need and potential for community engagement.

The Tree Plantation Program commenced with a brief inauguration ceremony at Nachikondampatti ,where Faculty coordinator, UBA coordinator and 50 student volunteers of UBA-SSMIET along with the local community engaged in the tree planting process. A diverse range of 100 saplings, including native species, was distributed among the villagers. Each participant received a sapling proper care and growth. The plantation was done in Nachikondampatti by 10.45 a.m. Refreshments were provided to the Faculty and student volunteers. A comprehensive maintains plan was discussed and shared with villagers, ensuring long term health and growth of planted saplings. This plan included regular watering schedules, protection from grazing animals. The events emphasized the importance of sustainable practices, the role of trees in carbon sequestration, and border implications of climate change. The active involvements of villagers fostered a sense of ownership and responsibility for planted saplings, contributing to the long term success of initiative. The program strengthened the bond between SSMIET and adapted village under UBA paving the way for future collaborative initiatives aimed at sustainable development.

By planting 100 saplings and actively involving the local community, the initiative not only contributed to environmental conservation but also promoted awareness and community empowerment. The institute remains committed to its role in fostering sustainable practices and addressing the challenges posed by climate change in adapted village.

Dr.D.SENTHIL KUMARAN, M.E., Ph.D.,(NUS)

Principal

SSM Institute of Engineering and Technology

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Palani Road, Dindigul - 624 002

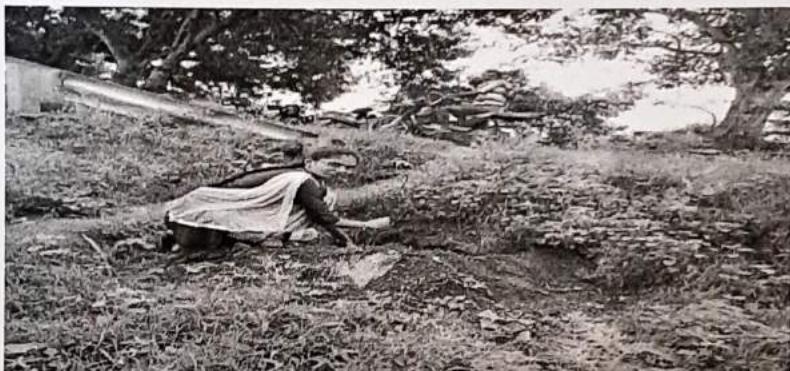
A handwritten signature in black ink, appearing to read 'D. Senthil Kumaran'.



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UBA Volunteers planting saplings in Nachikonampatti village

K.D
25/2/22
Program Coordinator

R.P
UBA Coordinator

D.S
Principal



Dr.D.SENTHIL KUMARAN, M.E., Ph.D.,
Principal
SSM Institute of Engineering and Technology
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Palani Road, Dindigul - 624 002



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Dindigul – Palani Highway, Dindigul – 624 002.

Academic Year 2021-2022

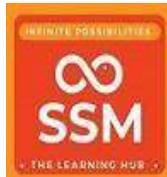
18.04.2022

UBA (Unnat Bharat Abhiyan) Programme

Submitted to the Principal for kind approval

Sub: Sri Sakthi Trust Field Visit – Ayyampalayam – Reg.

I wish to bring to your kind notice that we are planning to conduct a field visit for our students in collaboration with UBA /SSMIET and Sri Sakthi Trust from 25.04.2022 to 30.04.2022. In this connection, in our college, six batches (each with 50 students) of I, II and III year students are in association with UBA were identified. Herewith we attach the details of the programme, tentative dates and schedule for the field visit. Hence, approval may kindly be given to initiate the field visit to Sri Sakthi Trust.



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul – Palani Highway, Dindigul – 624 002.

Academic Year 2021-2022

22.04.2022

Schedule Plan

UBA (Unnat Bharat Abhiyan) Programme

Field visit to Sri Sakthi Trust - Ayyampalyam

| Sl. No | Date | Students Details | Total | Accompanying Faculty |
|--------|-------------------------|---|-------|------------------------------|
| 1 | 25.04.2022 Monday | II ECE A II ECE B III ECE-A | 50 | UBA Co-Ordinator + 2 Faculty |
| 2 | 26.04.2022 Tuesday | III ECE-B III ECE-C | 50 | UBA Co-Ordinator + 2 Faculty |
| 3 | 27.04.2022 Wednesday | III EEE II MECH | 50 | UBA Co-Ordinator + 2 Faculty |
| 4 | 28.04.2022 Thursday | II CSE | 50 | UBA Co-Ordinator + 2 Faculty |
| 5 | 29.04.2022 Friday | I Year | 50 | UBA Co-Ordinator + 2 Faculty |
| 6 | 30.04.2022 Saturday | II CIVIL III CIVIL III AUTO III MECH | 50 | UBA Co-Ordinator + 2 Faculty |



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY
Dindigul – Palani Highway, Dindigul – 624 002.
Academic Year 2021-2022

Executed schedule
UBA (Unnat Bharat Abhiyan) Programme
Field visit schedule to Sri Sakthi Trust - Ayyampalyam

| Sl. No | Date | Students Details | | Total | Accompanying Faculty |
|--------|-------------------------|------------------|----|-------|--|
| 1 | 25.04.2022 Monday | II ECE A | 9 | 56 | Mr.K.Senthilkumar |
| | | II ECE B | 25 | | Dr.K.Vinothkumar |
| | | III ECE-A | 22 | | Dr.Premkumar Mrs.A.Geetha Mrs.S.Abirami |
| 2 | 26.04.2022 Tuesday | III ECE-B | 29 | 58 | Mr.J.Vetrimanikumar |
| | | III ECE-C | 29 | | Mr.V.P.Gokulan Mr.K.S.Arunkumar Mrs.G.Saranya |
| 3 | 27.04.2022 Wednesday | III EEE | 43 | 66 | Mr. P.Sankarkannan Mrs. V. Preethi Mr. U Karthick Mr. V. Sivakumar |
| | | II MECH | 23 | | Mrs. S. Vijaya Samundeeswari Mr. K. G. Murugan, TA/EEE |
| 4 | 28.04.2022 Thursday | II CSE | 45 | 45 | Dr.G.Prabu Mrs.N.J.Divya Mr.X.Franklin Aro,TA/CSE |
| 5 | 29.04.2022 Friday | I EEE-1 | 17 | 51 | Mrs.S.Kavitha Mrs.S.Hemalatha Mrs.R.Janani Ms.R.Vithyadevi Mrs.J.John Prateeba |
| | | I MECH | 6 | | Mrs.V.Sumithra Mrs.P.Kothai Natchiar Dr.S.Sudha,Librarian Mr.S.Nagaraj,TA/Che |
| | | I ECE-3 | 28 | | Mr.Antony,TA/Phy |
| 6 | 30.04.2022 Saturday | II CIVIL | 22 | 61 | Dr.G.Selvabharathi |
| | | III CIVIL | 13 | | Mr.V.Praveen Jesuraj |
| | | III AUTO | 8 | | Mr.P.M.Sharan Karthik Mr.Seenivasa Perumal |
| 7 | 02.05.2022 Monday | III MECH | 18 | 43 | Mr. P Dheenadhyalan Mr. T Karthick Muniasami |
| | | I CSE-1 | 19 | | Mr.R.Satheesh Babu |
| | | I CSE-2 | 8 | | Mrs.K.Thara Mrs.S.Soundaralakshmi |
| | | I EEE-2 & Civil | 16 | | Mr.M.Christopher Mr.S.Nagaraj,TA/Che Mr.Antony,TA/Phy |



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul – Palani Highway, Dindigul – 624 002.

Academic Year 2021-2022

List of I Year Students for Field Visit on 02.05.2022

| Sl.No | Name of the Student | Sl.No | Name of the Student |
|--------------|---------------------|--------------------------|---------------------|
| CSE-1 | | EEE-2 & CIVIL | |
| 1 | ANAND CHARUKESAN K | 28 | GOKULL V |
| 2 | ANISHA J | 29 | KARTHIKEYAN M |
| 3 | BAVANI K | 30 | KAVINNILAVAN S |
| 4 | DEVAKI R | 31 | NAGAJOTHI |
| 5 | DHARSHINI S | 32 | NITHEESH KANNAN |
| 6 | DHIYANESH S | 33 | PRAVEEN VENGADESH S |
| 7 | HARINI S | 34 | SANJAY G |
| 8 | INDHIRARAJ S | 35 | SANTHOSH C |
| 9 | JEYARAMAN S | 36 | SELVAKUMAR C |
| 10 | JEYA SHREE S | 37 | NIVASHINI P |
| 11 | KAJALAKSHMI M | 38 | RAGAVI R |
| 12 | KARPAGAM S | 39 | RAJESHWARI J |
| 13 | KARTHEKEYAN M | 40 | SANTHIYA M |
| 14 | KAVIYA J | 41 | SHARMILA M |
| 15 | KISHOR KUMAR S | 42 | VAISHALI M |
| 16 | MANOJKUMAR V | 43 | VANAJA G |
| 17 | MAHIMA R | | |
| 18 | MANIKANDAN B | | |
| 19 | MANTHRA SRI D | | |
| CSE-2 | | | |
| 20 | MATHAVAN S | | |
| 21 | SANTHOSH K | | |
| 22 | SHIVANI K | | |
| 23 | THAMEEM RAJA K | | |
| 24 | UMAR FAROOK J | | |
| 25 | VIDHYA SAGAR P | | |
| 26 | YOGESHWARAN B | | |
| 27 | YUVARAJ V | | |



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY
Dindigul – Palani Highway, Dindigul – 624 002.
Academic Year 2021-2022

List of I Year Students for Field Visit on 29.04.2022

| Sl.No | Name of the Student | Sl.No | Name of the Student |
|--------------|---------------------|--------------|---------------------|
| ECE-3 | | MECH | |
| 1 | SABITHA JONES M | 29 | INBA THAMIZAN |
| 2 | SANJITHA FATHIMA S | 30 | HARSAN M S |
| 3 | SANTHI A | 31 | KISHORE KUMAR S |
| 4 | SANTHOSH R | 32 | NITHISH KUMAR R |
| 5 | SARATHI V | 33 | SYED ABUDHAIR S |
| 6 | SASHMITHA SHREE M | 34 | YASHWATHKUMAR B |
| 7 | SATHISH KUMAR S | EEE-1 | |
| 8 | SELVA MADHESVARAN | 35 | ABIRAMI G |
| 9 | SENTHIL NATHAN M | 36 | AISHWARYA M.P |
| 10 | SHANMUGAPRIYA S | 37 | ARCHANA DEVI B |
| 11 | SIBISUDHAN R | 38 | BALA SUBRAMANIYAN R |
| 12 | SIVASANKARI K | 39 | BHUVANESWARI G |
| 13 | SONAISAKTHI M | 40 | CATHRIN NISHA M |
| 14 | SOORIYA K | 41 | DIVYA J |
| 15 | SRI ISWARYA | 42 | DOMINIC SCAPLARAJ A |
| 16 | SRIRAM M | 43 | JAYASRI S |
| 17 | SRISRUTHI S | 44 | KAMILA SAI K |
| 18 | SUBASH NATRAYAN R | 45 | KANYA K |
| 19 | SUBHA N | 46 | KAVIYA LAKSHMI S |
| 20 | SUGAPRIYA P | 47 | MANI VEL G |
| 21 | SWETHA S | 48 | MINIPRIYA K |
| 22 | VASANTHA KUMAR P | 49 | MOHAMMED SIDDIQ A |
| 23 | VALARMATHI | 50 | NARMATHA DEVI P |
| 24 | VEDHASRI S | 51 | PRIYA DHARSHINI J |
| 25 | VIGNESH V | | |
| 26 | VIKASHINI K | | |
| 27 | VISHNUPRIYA | | |
| 28 | YUVASRI M | | |

Field Visit on 25.04.2022

1. Check Dam Visit by the Students



2. Biodiversity gardens, including herbal gardens visit



3. Agricultural product Value Addition



4. Presentation on various developmental activities undertaken by Sakthi Trust



Field Visit on 26.04.2022

1. Agricultural product Value Addition



2. Presentation on various developmental activities undertaken by Sakthi Trust



3. Agricultural product Value Addition



4. Visited Automatic weather station



5. Visited Check Dam construction



6. Climate Resilient Agriculture



7. Water Conservation Technologies



Field Visit on 27.04.2022

1. Agricultural product Value Addition



2. Visited Automatic weather station



3. Climate Resilient Agriculture



4. Visited Check Dam construction



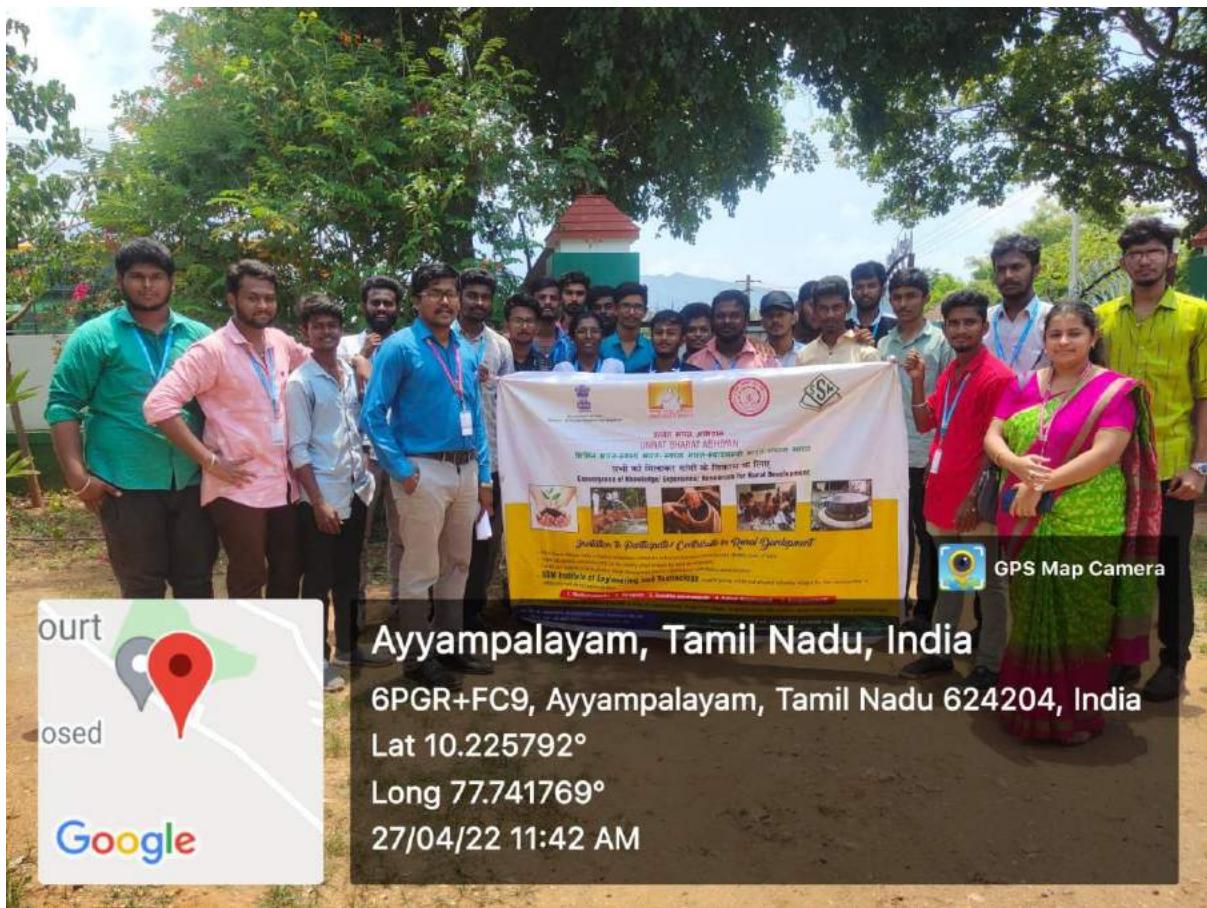
5. Water Conservation Technologies



6. Climate Resilient Agriculture



7. Visited Biodiversity gardens, including herbal gardens



Field Visit 28.04.2022

1. Water Conservation Technologies



2. Agricultural product value addition



3. Agricultural product value addition



4. Check Dam Visit



5. Presentation on various developmental activities undertaken by Sri Sakthi Trust



Field Visit on 29.04.2022



1. Visited Check Dam construction

2. Climate Resilient Agriculture



3. Presentation on various developmental activities undertaken by Sri Sakthi Trust

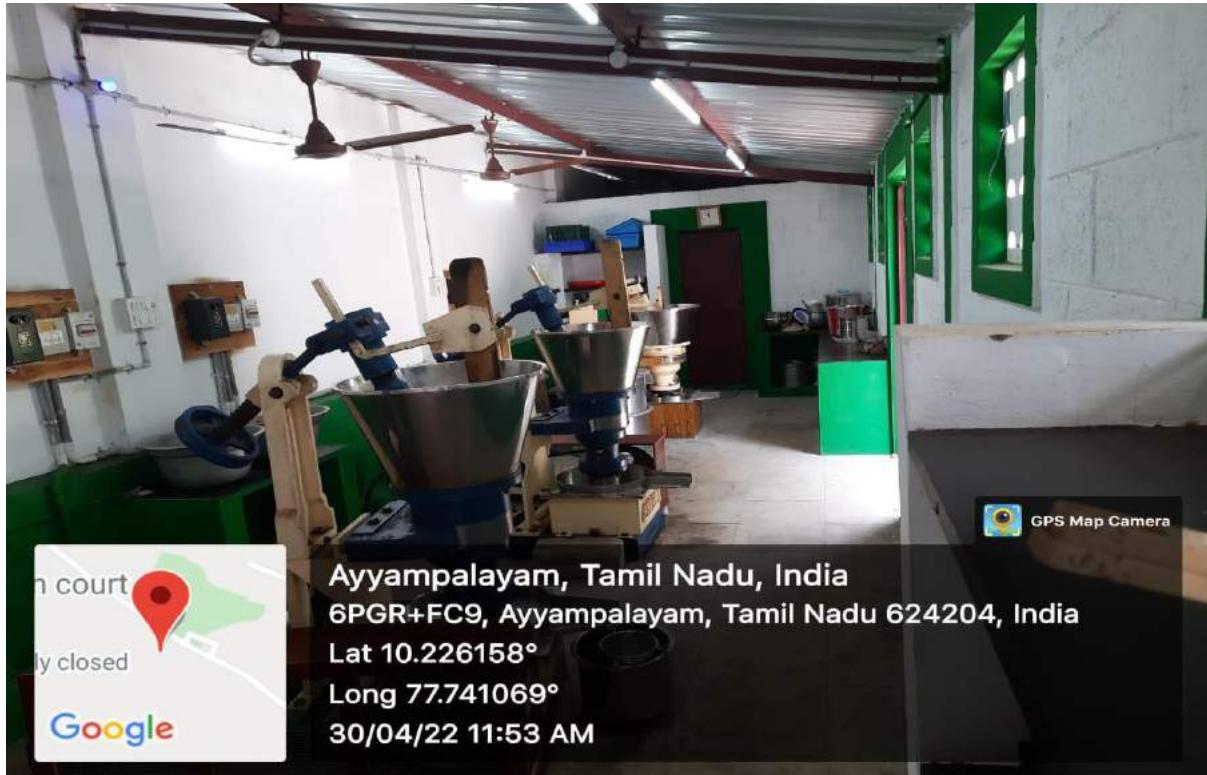


4. Visited Automatic weather station



Field Visit on 30.04.2022

1. Agricultural product Value Addition



2. Visited Check Dam construction



3. Presentation on various developmental activities undertaken by Sakthi Trust



4. Visited Automatic weather station



Field Visit on 02.05.2022

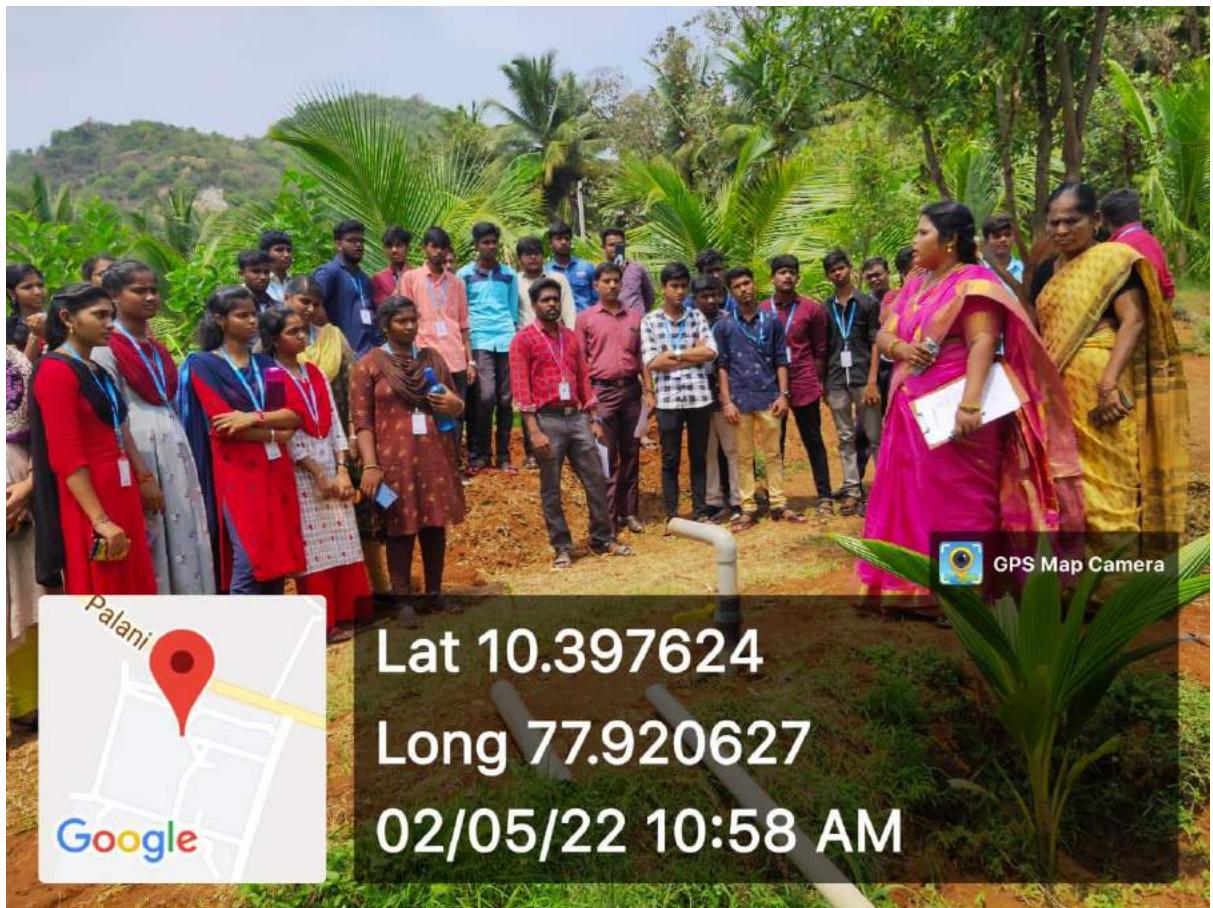
1. Visited Check dam construction



2. Visited Automatic weather station



3. Water Conservation Technologies



Feedback Meeting held on 10.05.2022





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Dindigul – Palani Highway, Dindigul – 624 002

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Date:26. 07.2022

World Nature Conservation Day

Circular

Our college **SSMIET** is actively participating in the "**World Nature Conservation Day**", a nationwide initiative in collaboration with the Green Terre Foundation and the All India Council Technical Education (AICTE). As part of this endeavor, a special Tree Adaptation and Sapling Plantation Program is going to be organized on 28.07.2022 all the students are invited to join in this meaningful and impactful initiative.

The Student participations are encouraged to create a greener and more sustainable future for ourselves and the generations to come. Student's participation in this program is not only a contribution to the environment but also a powerful statement about our commitment to addressing climate change.

The Student's active participation and support are invited in making **World Nature Conservation Day** a resounding SUCCESS.

K.D
26/7/22
Program Coordinator

B.S
UBA Coordinator

D.D
Principal

Mrs.K.Divya

Dr.D.SENTHIL KUMARAN, M.E., Ph.D.,(MUS)

Principal

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Dindigul – Palani Highway, Dindigul – 624 002

Participants Name list

| S.No | Name | Branch | Signature |
|------|------------------|--------|-------------------|
| 1 | Gokulramnath K | ECE | K. Gokulramnath |
| 2 | Gowtham K | ECE | Gowtham. K. |
| 3 | Gowtham M | ECE | M. Gowtham |
| 4 | Hameed Husain M | ECE | Hameed Husain |
| 5 | Jamuna G | ECE | JAMUNA. G. |
| 6 | Jeeva S | ECE | Jeeva. S |
| 7 | Jeya Seelan S | ECE | S. Jeya Seelan |
| 8 | Kabilan R | ECE | kabilan |
| 9 | Kajal Krishna C | ECE | Kajal Krishna. C |
| 10 | Kalpana S | ECE | Kalpana. S. |
| 11 | Muruganandam R | ECE | Muruganandam. R |
| 12 | Muthuvel M | ECE | M. Muthuvel |
| 13 | Nagapriya S | ECE | Nagapriya. S. |
| 14 | Natrayan R | ECE | N. Natrayan |
| 15 | Swetha M | ECE | R. Swetha |
| 16 | Swetha S | ECE | R. Swetha |
| 17 | Valarmathi P | ECE | P. Valarmathi |
| 18 | Varnigadevi K | ECE | K. Varnigadevi |
| 19 | Varsha M | ECE | M. Varsha |
| 20 | Varshini M | ECE | Varshini. M |
| 21 | Vasantha Kumar P | ECE | P. Vasantha Kumar |
| 22 | Vedhasri S | ECE | S. Vedhasri |
| 23 | Velmurugan P | ECE | P. Velmurugan. |
| 24 | Vignesh V | ECE | V. Vignesh. |
| 25 | Swetha M | ECE | M. Swetha |
| 26 | Hariharan K | ECE | Hariharan |
| 27 | Harini J | ECE | J. Harini. |

| | | | |
|----|------------------|-----|------------------|
| 28 | Hari Prasath S | ECE | Hari prasath S |
| 29 | Harshini A | ECE | A Harshini |
| 30 | Hema M | ECE | Hema . M |
| 31 | Sivaraj M | ECE | Sivaraj . M |
| 32 | Sivasankar K | ECE | Sivasankar k |
| 33 | Sonali M | ECE | M. Sonali |
| 34 | Sowmiya S | ECE | Sowmiya . S |
| 35 | Sowmya S. | ECE | Sowmya . S |
| 36 | Sivasankari K | ECE | Sivasankari |
| 37 | Sonaikathi M | ECE | B. Sivasankari |
| 38 | Sooriya K | ECE | Sooriya . k |
| 39 | Santhi A | ECE | A Santhi |
| 40 | Chitra S | ECE | chitra . S |
| 41 | Dharany M | ECE | M. Dharany |
| 42 | Dheenu Gowtham S | ECE | Dheenu Gowtham |
| 43 | Dinesh R | ECE | R. Dinesh |
| 44 | Divya K | ECE | K. Divya |
| 45 | Keerthana T | ECE | Keerthana . T |
| 46 | Keerthika S | ECE | Keerthika |
| 47 | Keerthivasan V | ECE | Keerthivasan . V |
| 48 | Suvetha R | ECE | Suvetha . R. |
| 49 | Tamilarasan M | ECE | M. Tamilarasan |
| 50 | Taran Raja P | ECE | P. Taran Raja . |



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Unnat Bharat Abhiyan – SSMIET

12.08.2022

Report on Tree Plantation in Adapted Villages under UBA

The Tree Plantation Program organized by Unnat Bharat Abhiyan (UBA) of SSM Institute of Engineering and Technology (SSMIET) Dindigul aimed to create awareness on World nature conservation day. On July 28,2022, the institute successfully planned 100 saplings in the adapted village of UBA - **Kaaladi patti** as the part of their commitment to social responsibility and environmental conservation.

The primary objective of the tree planting program was to sensitize the local communities to the impacts world nature conservation day and emphasizes the role of tree in mitigating these effects. By actively involving the community in planting saplings, the initiatives aimed to foster a sense of ownership and responsibility towards the environment.

The program was executed in the adapted villages under the Unnat Bharat Abhiyan, strategically chosen to maximize the impact of the tree plantation initiative in the locality of the Institute thus serving the local community. The selected village was identified based on their environmental need and potential for community engagement.

The Tree Plantation Program commenced with a brief inauguration ceremony at Kaaladi patti, where Faculty coordinator, UBA coordinator and 50 student volunteers of UBA-SSMIET along with the local community engaged in the tree planting process. A diverse range of 100 saplings, including native species, was distributed among the villagers. Each participant received a sapling proper care and growth. The plantation was done in Kaaladi patti by 10.45 a.m. Refreshments were provided to the Faculty and student volunteers. A comprehensive maintenance plan was discussed and shared with villagers, ensuring long term health and growth of planted saplings. This plan included regular watering schedules, protection from grazing animals. The events emphasized the importance of sustainable practices, the role of trees in carbon sequestration, and broader implications of climate change. The active involvements of villagers fostered a sense of ownership and responsibility for planted saplings, contributing to the long term success of initiative. The program strengthened the bond between SSMIET and adapted village under UBA paving the way for future collaborative initiatives aimed at sustainable development.

By planting 100 saplings and actively involving the local community, the initiative not only contributed to environmental conservation but also promoted awareness and community empowerment. The institute remains committed to its role in fostering sustainable practices and addressing the challenges posed by climate change in adapted village.



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UBA Volunteers planting saplings in Kaaladipatti village

K. Danya
12/8/22
Program Coordinator

UBA Coordinator

Principal

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06.03.2023

UBA (Unnat Bharat Abhiyan) Programme

Submitted to the Principal for kind approval

Sub: Visit millet fair cum Exhibition-TNAU-Madurai-Reg.

I wish to bring to your kind notice that we are planning to visit millet fair cum Exhibition at Agricultural College and Research Institute (TNAU-Madurai) on 07.03.2023 (Tuesday). In this connection, from our institution 41 students, 8 faculty members and 18 village peoples interested to visit the exhibition. I request you to approval for this visit. Herewith, I have attach the details, list of students, faculty members and village peoples for your reference.

Staff In-charge

[F. ARULKUMAR]

UBA Coordinator

[R. SENTHIL KUMAR]



Principal

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VILLAGE PEOPLES NAME LIST

| S.No | Village Name | Name |
|------|----------------------|---------------|
| 1 | Kuttathu Avarampatti | S.Ponraj |
| 2 | | S.Raji |
| 3 | | N.Ashok |
| 4 | | J.Rajkumar |
| 5 | | S.Pream kumar |
| 6 | | N.Kavi |
| 7 | | S.Manimaran |
| 8 | | A.Jesuraj |
| 9 | | A.Christuraj |
| 10 | | T.Renganathan |
| 11 | | V.Nehrudhasan |
| 12 | | G.Kabilan |
| 13 | | V.Venkatesh |
| 14 | | D.Palani |
| 15 | | S.Gowtham |
| 16 | | C.Prakash |
| 17 | | R.Jeyaseelan |
| 18 | | T.Murugesh |

Staff In-charge

T.ARULKUMAR

UBA Coordinator

[R SENTHIL KUMAR]

Principal

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Palani Road, Dindigul - 624 002.



| S.No. | Department | Register No. | Student Name | Year |
|-------|------------|--------------|------------------------|------|
| 1 | ECE | 922120106001 | AARTHY K P | III |
| 2 | | 922120106003 | AISHWARYA K | III |
| 3 | | 922120106031 | KAVYA SHREE .R K | III |
| 4 | | 922120106016 | HARINI J | III |
| 5 | | 922120106033 | LATHEEP MAIDEEA A | III |
| 6 | | 922120106046 | PAVITHRA R | III |
| 7 | | 922120106052 | SABITHA M.V | III |
| 8 | | 922120106071 | TERRENCE RITHIK ARON S | III |
| 9 | | 922120106073 | UMAPRIYADHARSHINI J | III |
| 10 | | 922120106081 | G.S.VIJAYRAGUNATH | III |
| 11 | | 922121106010 | DHIVYA N | II |
| 12 | | 922121106011 | DHIVYA DHARSHINI B | II |
| 13 | | 922121106026 | KAMATCHI VELAN M | II |
| 14 | | 922121106039 | LOGESH K | II |
| 15 | | 922121106041 | MAHALAKSHMI T | II |
| 16 | | 922121106074 | ROBIN J J | II |
| 17 | | 922121106095 | SUBASH NATRAYAN R | II |
| 18 | | 922121106107 | VEDHASRI S | II |
| 19 | | 922121106113 | YUVASRI M | II |
| 20 | EEE | 922120105001 | AKASH M | III |
| 21 | | 922120105005 | DINESHKUMAR U | III |
| 22 | | 922120105007 | JOTHISELVAM P | III |
| 23 | | 922120105016 | SADHAM HUSSIAN S | III |
| 24 | | 922120105018 | SHANMUGAVEL | III |
| 25 | CSE | 922120104024 | LOKESH G | III |
| 26 | | 922120104047 | SHARMILA S | III |
| 27 | | 922120104052 | SOUNDARYA DEVI M | III |
| 28 | | 922120104033 | PRADEEP V | III |
| 29 | | 922120104042 | SANTHIYA DHARSHINI | III |
| 30 | | 922121103001 | DHARUN M | II |
| 31 | CIVIL | 922121103009 | NITHEESH KANNAN P | II |
| 32 | | 922121103303 | PRAVEEN R | II |
| 33 | | 922120114008 | JAIKUMAR PANDIAN J | III |
| 34 | | 922120114013 | LAKSHMI N | III |
| 35 | MECH | 922120114308 | DHIWAKAR C | III |
| 36 | | 922120114020 | NITHIS KUMAR J | III |
| 37 | | 922120114030 | SUGAN B | III |
| 38 | | 922120114031 | TAMIL SELVAN S | III |
| 39 | | 922121114005 | BALACHANDRAN | II |
| 40 | | 922121114021 | RAGULRAJ | II |
| 41 | | 922121114028 | SUBASH PANDIAN | II |



Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS)
Principal

List of faculty:

| S.No. | FACULTY NAME | DESIGNATION / DEPT. |
|-------|------------------------|---------------------|
| 1 | Dr. K. Vinothkumar | PROF./ECE |
| 2 | Mr.R.Senthil Kumar | AP/ECE |
| 3 | Dr.K.Ganapriya | AP/ECE |
| 4 | Mrs. K.Divya | AP/ECE |
| 5 | Mr..C.Silambarasan | AP/Mech |
| 6 | Mr.P.M Sharan Karthick | AP/Civil |
| 7 | Mr.G.Murugan | AP/CSE |
| 8 | Mr.T.Arul Kumar | AP/EEE |

20/10/23
Staff In-charge

[R. SENTHIL KUMAR]
AP/ECE




Principal

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09.03.2023

UBA (Unnat Bharat Abhiyan) Programme

Report on Two-day ‘Millet Fair cum Exhibition’ organised in Madurai,Tamil Nadu, First Common Incubation Centre under the PMFME Scheme inaugurated, Agri-Hackathon organized to promote entrepreneurship development.

The Ministry of Food Processing Industries, Government of India organized a two-day ‘Millet Fair cum Exhibition’ in Madurai, Tamil Nadu from 6-7 March, 2023. The event was organised as part of the Millet Mahotsav series, in collaboration with the Department of Micro, Small and Medium Enterprises and the Department of Agricultural Marketing and Agri Business, Government of Tamil Nadu. Tamil Nadu is known for the production of different varieties of millets including Pearl Millet (Bajra), Sorghum (Jowar), Finger Millet (Ragi), Small Millet (Foxtail Millet, Barnyard Millet, Kodo Millet, Proso Millet) and Little Millet. The district of Madurai is known for the production of Pearl Millet (Bajra), Sorghum (Jowar), Finger Millet (Ragi) and Small Millet. In the year 2019-20 the district produced, 3,548 tonnes of Pearl Millet (Bajra), 22,405 tonnes of Sorghum (Jowar), 69 tonnes of Finger Millet (Ragi) and 130 tonnes of Small Millets.



During the event, the first Common Incubation Centre under the Pradhan Mantri Formalisation of Micro food processing Enterprises (PMFME) Scheme was inaugurated by Thiru. P. Moorthy, Minister for Commercial Taxes and Registration, Government of Tamil Nadu, Thiru. T. M. Anbarasan, Minister for Micro, Small and Medium Enterprises (MSME), Government of Tamil Nadu and Thiru. M. R. K. Panneerselvam, Minister for Agriculture and Farmers Welfare, Government of Tamil Nadu at Krishi Vigyan Kendra Madurai, Tamil Nadu Agricultural University. The Common Incubation Centre has been set up for Dhal Processing and Fruit & Vegetable Processing.



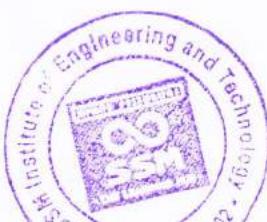
Aligning with the spirit of an Aatmanirbhar Bharat and to promote entrepreneurship development, an Agri Hackathon was organized inviting aspiring entrepreneurs to submit their ideas for innovative agricultural and food processing technologies. The initiative garnered a positive response with more than 400 applications submitted. The selected applicants went through a boot camp training, out of which, four applicants were shortlisted for a funding grant, mentorship and handholding support. The dignitaries also launched 17-millet based brands to encourage micro food processing enterprises to venture into the domain of Millet processing. Additionally, a book on Millets by the Tamil Nadu Agricultural University was also launched during the event. The dignitaries later visited the stalls at the Millet-based product exhibition, which had over 150 stalls showcasing various Millet based value-added products and innovative millet-based recipes.



The two-day event was aimed at providing the micro food processing enterprises with a platform to interact with leading industry players through B2B and B2C interactions organized during the Buyer Seller Meet. Participants interacted with organizations to get a deeper understanding of marketing, e-commerce, quality parameters for online and offline retail, etc. It brought all the stakeholders of the food processing sector with special focus on millets, on a common platform and encompassed a wide range of activities like exhibition and sale of various millet-based products, live kitchen showcasing 45 Millet-based dishes prepared by 19 Self Help Groups, millet recipe demonstration, cooking competition, agri-hackathon, informative sessions on millet processing, buyer seller meet, interactive sessions between industry experts and micro food processing enterprises, SHGs, FPOs engaged in food processing. Cultural programs and art forms like Puliyaattam, Poikkal Kuthirai Attam, Karakattam and Kummi enriched the event and provided the participants with a glimpse of the cultural heritage of Tamil Nadu. Millet Mahotsav received an overwhelming response with more than 6000 participants attending the event including micro food processing enterprises, self-help groups, farmer producer organizations, producer cooperatives, etc.

In addition to the Millet Mahotsav, a mega-food event World Food India 2023 is also being organized by the Ministry from 3rd to 5th Nov 2023 at Pragati Maidan, New Delhi to provide a unique platform to all stakeholders i.e. producers, food processors, equipment manufacturers, logistics players, cold chain players, technology providers, academia, start-up & innovators, food retailers, etc. to interact and have a dialogue. The event is slated to be the biggest-ever congregation of dignitaries, global investors and business leaders of major global and domestic food companies which would put India firmly on the global food landscape.

In the wake of the United Nations General Assembly declaring 2023 as the International Year of Millets, the Ministry of Food Processing Industries is hosting Millet Mahotsav across 20 States and 30 Districts in the country with the aim of creating awareness about the nutritional benefits, value addition, consumption and export potential of Millets. The States hosting the events include Madhya Pradesh, Bihar, Telangana, Tamil Nadu, Uttar Pradesh, Assam, Gujarat, Andhra Pradesh, Uttarakhand, Odisha, Punjab, Kerala, Rajasthan, Himachal Pradesh, Karnataka, Maharashtra, Chhattisgarh, Haryana, West Bengal, and Jharkhand.




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Principal
SSM Institute of Engineering and Technology



A handwritten signature in blue ink, which appears to read 'Dr. D. Senthil Kumaran'.

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Pelai, Road Dindigul 624002



Staff In-charge

UBA Coordinator

Dr.D.SENTHIL KUMARAN, M.E., Ph.D., M.B.A.
Principal

D.S.K

D.S.K 03/23



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Date: 16.03.2023

CIRCULAR

Unnat Bharat Abhiyan (UBA) of SSMIET is organising Village Visit to Adopted Villages for UBA Village Household Survey as per the following Schedule. The visit will be undertaken by the volunteers of UBA, SSMIET.

| Sl. No. | Day | Villages | No. of Students | Faculty Coordinators |
|---------|------------|--------------------------------|-----------------|--|
| 1. | 17.03.2023 | Nachikonapatti & Kaladipatti | 26 | Mr. R. Senthil Kumar Mr. P. M. Sharan Karthik |
| 2. | 18.03.2023 | Kovilpatti & Vayiladichanpatti | 25 | Mr. R. Senthil Kumar Mr. M. Selwin |
| 3 | 19.03.2023 | Annai Nagar | 24 | Mr. R. Senthil Kumar Mrs. K. Divya |

UBA Co-ordinator

[R. SENTHIL KUMAR]



PRINCIPAL

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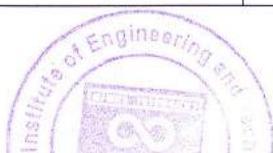
Dindigul – Palani Highway, Dindigul 624 002

Unnat Bharat Abhiyan

16.03.2023

List of Volunteers – Village Visit for UBA Village Survey

| Sl. No. | Date | Register Number | Department | Name of the Student |
|---------|------------|-----------------|------------|------------------------|
| 1 | 17.03.2023 | 922119103001 | CIVIL | S. ABUL BAJAR |
| 2 | 17.03.2023 | 922119103004 | CIVIL | M. HEMARAJ |
| 3 | 17.03.2023 | 922119103008 | CIVIL | P. POORNACHANDRAN |
| 4 | 17.03.2023 | 922119103014 | CIVIL | R. SIVA |
| 5 | 17.03.2023 | 922119103017 | CIVIL | A. P. K. YOGESH ARASAN |
| 6 | 17.03.2023 | 922119105001 | EEE | ABINAYA S S |
| 7 | 17.03.2023 | 922119105002 | EEE | ANIESH ANGEL A |
| 8 | 17.03.2023 | 922119105003 | EEE | ARUL NITHISH KUMAR R |
| 9 | 17.03.2023 | 922119105004 | EEE | BEBINA RITHIKA J |
| 10 | 17.03.2023 | 922119105005 | EEE | BRUMMA THAMO THARAN M |
| 11 | 17.03.2023 | 922119105006 | EEE | DHEEPAN KUMAR G |
| 12 | 17.03.2023 | 922119105007 | EEE | DHILIP LAKSHMAN V |
| 13 | 17.03.2023 | 922119105008 | EEE | ESHWAR J |



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| | | | | |
|----|------------|--------------|-----|-----------------------|
| 14 | 17.03.2023 | 922119105009 | EEE | GNANA AROCKYA AMALI B |
| 15 | 17.03.2023 | 922119105010 | EEE | GOKULA PANDIYAN A |
| 16 | 17.03.2023 | 922119105011 | EEE | HARINI M |
| 17 | 17.03.2023 | 922119105013 | EEE | HEMALATHA S |
| 18 | 17.03.2023 | 922119105014 | EEE | KARTHIKEYAN B |
| 19 | 17.03.2023 | 922119105016 | EEE | KRISHNA LEELA S |
| 20 | 17.03.2023 | 922119105017 | EEE | MANJULA S |
| 21 | 17.03.2023 | 922119105018 | EEE | MANOJ KUMAR A |
| 22 | 17.03.2023 | 922119105019 | EEE | MOHAMMED HAFEEZ A |
| 23 | 17.03.2023 | 922119105022 | EEE | MUTHUKUMAR R |
| 24 | 17.03.2023 | 922119105023 | EEE | NAGARANI M |
| 25 | 17.03.2023 | 922119105024 | EEE | NASEER HUSSAIN S |
| 26 | 17.03.2023 | 922119105026 | EEE | PREETHIKA J |
| 27 | 18.03.2023 | 922119105027 | EEE | PUNITHA VIJAYASRI P |
| 28 | 18.03.2023 | 922119105028 | EEE | RAJESH MANI K |
| 29 | 18.03.2023 | 922119105029 | EEE | RESHMA P |



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| | | | | |
|----|------------|--------------|-----|------------------------|
| 30 | 18.03.2023 | 922119105030 | EEE | RISHIKARAN R |
| 31 | 18.03.2023 | 922119105031 | EEE | ROBIN NICHOLAS S |
| 32 | 18.03.2023 | 922119105032 | EEE | SANGAVI SRI M |
| 33 | 18.03.2023 | 922119105034 | EEE | SHAGIL P |
| 34 | 18.03.2023 | 922119105035 | EEE | SHALINI T |
| 35 | 18.03.2023 | 922119105036 | EEE | SIVASUBRAMANI S |
| 36 | 18.03.2023 | 922119105037 | EEE | SRI VARSHAN K |
| 37 | 18.03.2023 | 922119105038 | EEE | SURIYA SELVAM I |
| 38 | 18.03.2023 | 922119105039 | EEE | VAISHNAVI C |
| 39 | 18.03.2023 | 922119105040 | EEE | VINITH PRAVEEN KUMAR V |
| 40 | 18.03.2023 | 922119105041 | EEE | VINOOTH KUMAR S |
| 41 | 18.03.2023 | 922119105042 | EEE | VISWAA J |
| 42 | 18.03.2023 | 922119105301 | EEE | AKASH A |
| 43 | 18.03.2023 | 922119105302 | EEE | BAVADHARANI U |
| 44 | 18.03.2023 | 922119105303 | EEE | BHARATHKUMAR K |
| 45 | 18.03.2023 | 922120106042 | ECE | NANTHISWARAN M |



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| | | | | |
|----|------------|--------------|-----|------------------|
| 46 | 18.03.2023 | 922120106043 | ECE | NIRANJANA M |
| 47 | 18.03.2023 | 922120106044 | ECE | NITHIES KUMAR E |
| 48 | 18.03.2023 | 922120106045 | ECE | PANDIMA DEVI B |
| 49 | 18.03.2023 | 922120106046 | ECE | PAVITHRA R |
| 50 | 18.03.2023 | 922120106047 | ECE | PRIYADHARSHINI A |
| 51 | 18.03.2023 | 922120106048 | ECE | PRIYANKA S |
| 52 | 19.03.2023 | 922120106049 | ECE | RASITHA MARYAM K |
| 53 | 19.03.2023 | 922120106050 | ECE | REENA V |
| 54 | 19.03.2023 | 922120106051 | ECE | RESHMITHA R |
| 55 | 19.03.2023 | 922120106052 | ECE | SABITHA M V |
| 56 | 19.03.2023 | 922120106053 | ECE | SAHIL AKTHAR Z |
| 57 | 19.03.2023 | 922120106054 | ECE | SAKTHI PRIYA P |
| 58 | 19.03.2023 | 922120106055 | ECE | SANTHOSH KUMAR S |
| 59 | 19.03.2023 | 922120106056 | ECE | SARAN P |
| 60 | 19.03.2023 | 922120106057 | ECE | SELVAKUMAR S |
| 61 | 19.03.2023 | 922120106058 | ECE | SETHU KISHOR R |



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| | | | | |
|----|------------|--------------|-----|------------------------|
| 62 | 19.03.2023 | 922120106059 | ECE | SHANMUGARAJA K |
| 63 | 19.03.2023 | 922120106060 | ECE | SIVARAJ M |
| 64 | 19.03.2023 | 922120106061 | ECE | SIVASANKAR K |
| 65 | 19.03.2023 | 922120106062 | ECE | SONALI M |
| 66 | 19.03.2023 | 922120106063 | ECE | SOWMIYA S |
| 67 | 19.03.2023 | 922120106064 | ECE | SOWMYA S |
| 68 | 19.03.2023 | 922120106065 | ECE | SRI SATHYA NARAYANAN |
| 69 | 19.03.2023 | 922120106066 | ECE | SUBASH PANDI R |
| 70 | 19.03.2023 | 922120106067 | ECE | SUBASHREE M |
| 71 | 19.03.2023 | 922120106068 | ECE | SUGASH A |
| 72 | 19.03.2023 | 922120106069 | ECE | SUGUNTHON G |
| 73 | 19.03.2023 | 922120106070 | ECE | SURENDHAR NATH K |
| 74 | 19.03.2023 | 922120106071 | ECE | TERRANCE RITHIK ARON S |
| 75 | 19.03.2023 | 922120106072 | ECE | THANGARAJ R |



Dr. D. SENTHIL KUMARAN, M.E., Ph.D., (RUS)

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20.03.2023

UBA Village Survey Report

Village survey was conducted in cluster villages of SSM Institute of Engineering and Technology (SSMIET) under Unnat Bharath Abhiyan (UBA) Scheme of Government of India. The Villages covered under the survey were Nachikonapatti, Kaladipatti on 17.03.2023; Kovilpatti, Vayiladichanpatti on 18.03.2023 & Annai Nagar on 19.03.2023. The volunteers for the survey were students of SSMIET and were segregated based on their departments for the visit. II and III year students who were interested took part in the survey work voluntarily. The first survey work was done by Civil & Mechanical students. The second day survey was handled by the students of ECE. The third day students of EEE & CSE took part in the survey work. The entire survey was coordinated by Mr. Senthil, Assistant Professor/ ECE. He was accompanied by the respective department UBA coordinators during the visit.

The visit was arranged to start by 9.30 am from SSMIET campus in college bus. The Coordinator and respective department UBA coordinators accompanied the students of the day. Lunch was arranged in the village with the help of village heads. It was planned to return to college with 3.30 pm so as to conclude the visit within college hours. The Students were instructed beforehand to follow necessary precautions during the survey work by the Principal of SSMIET in an introductory meeting on 16.03.2023.

The Performance of UBA mandated for village survey was utilized under the guidelines of UBA. The village heads cordially extended their cooperation for this measure. The survey aimed to collect essential data, assess the living conditions, and identify the needs and challenges faced by the residents of the village. The survey was conducted as a door to door campaign with students visiting each house in the village and filling the details on behalf of the villagers. The villagers were very cooperative.

The three-day village survey provided valuable insights into the living conditions, challenges, and needs of the residents of villages. The data collected will serve as a foundation for future development projects and initiatives aimed at improving the quality of life in the villages for the UBA SEG projects. It is crucial to work collaboratively with the local community and government agencies to address the identified issues and uplift the standard of living in the villages under UBA.



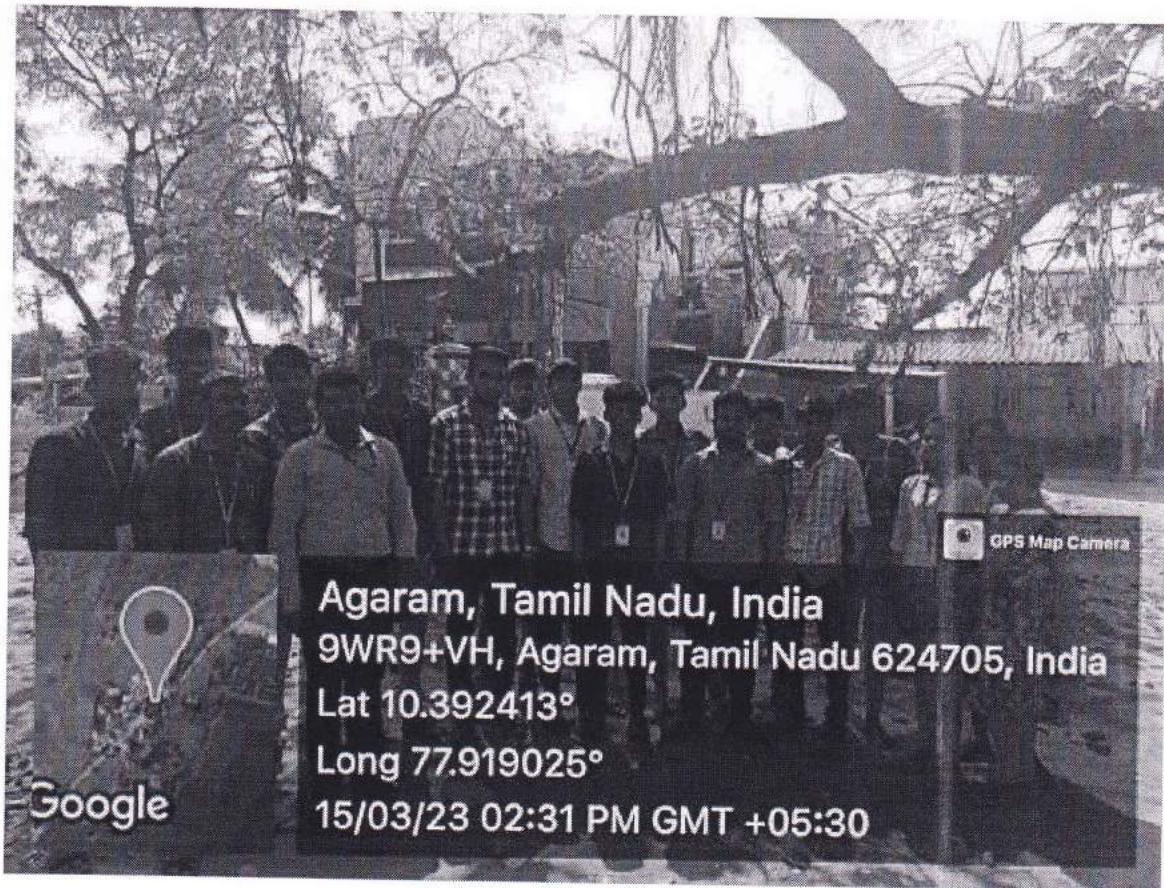
Dr. D. SENTHIL KUMAR, M.E., Ph.D., [Hus]
Principal
SSM Institute of Engineering and Technology
Kuttiyapatti Village, Sindalagundu (Po),
Palani Road District - 624 002



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

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Dindigul – Palani Highway, Dindigul 624 002



Dr. D. SENTHIL KUMARAN, M.E., Ph.D., (NUS)
Principal

SSM Institute of Engineering and Technology
Ettaihupettai Village, Sirdalagundu (Pg),
Palani Road, Dindigul - 624 002



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

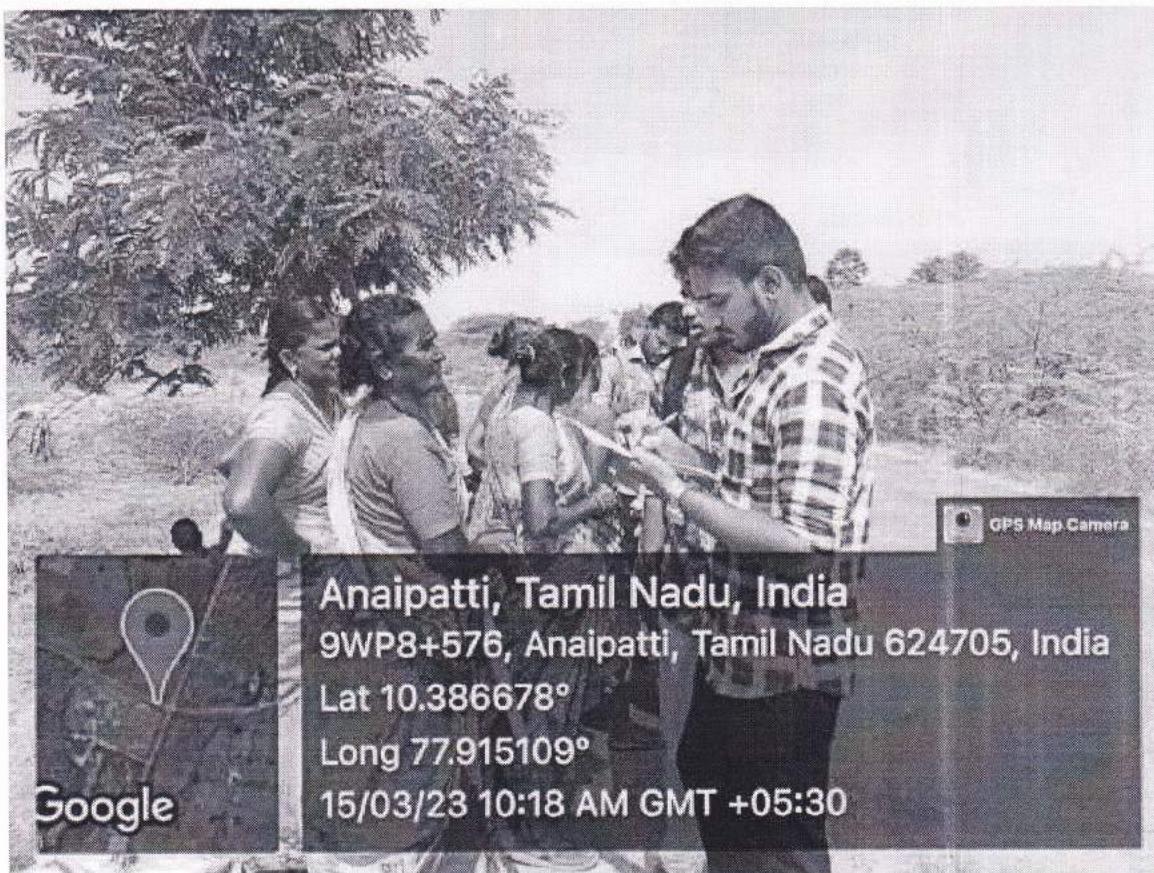


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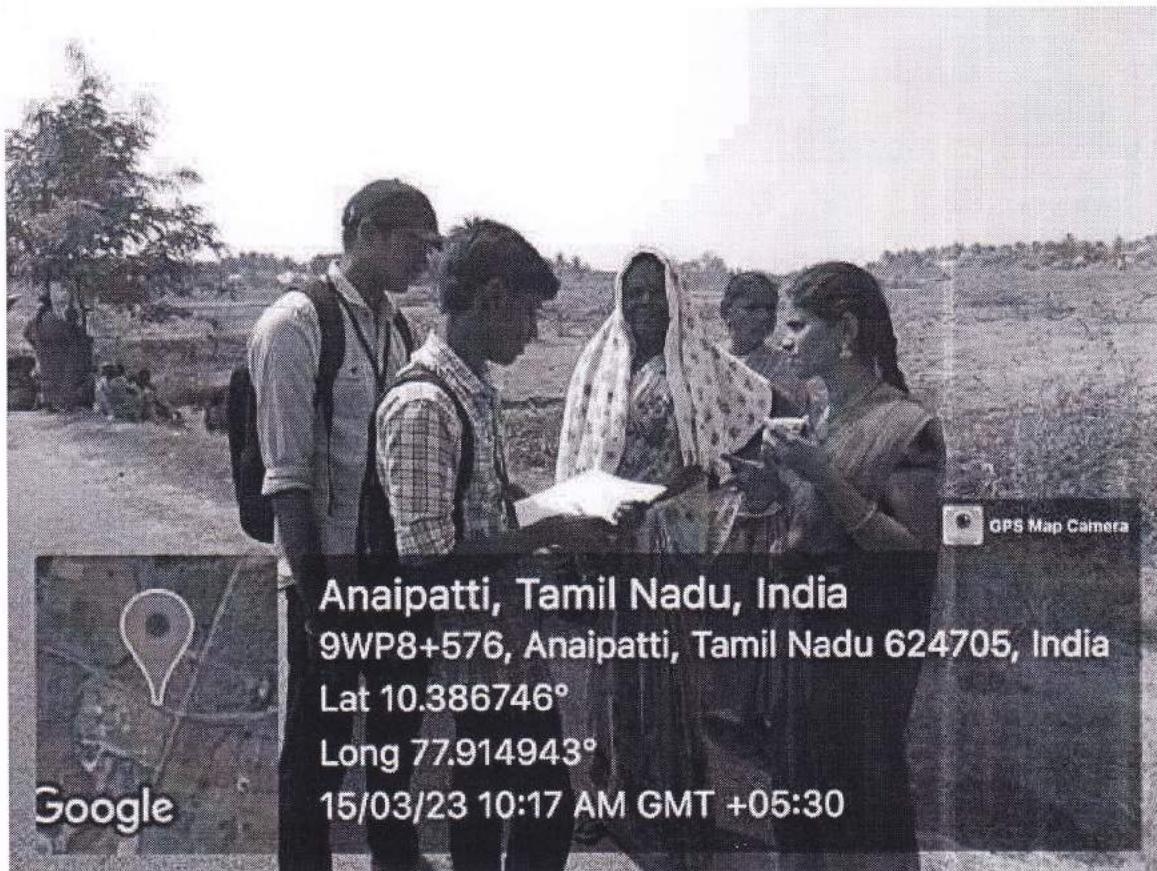
Dr.D.SENTHIL KUMAR, M.Tech, Ph.D.,(NUS)
Principal
SSM Institute of Engineering and Technology
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Palani Road, Dindigul - 624 002



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Dr. D. SENTHIL KUMARAN, M.E., Ph.D., (M.S.)
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SSM Institute of Engineering and Technology
Autoshapeett Village, Sundagundu P.O,
Vellore Road, Dindigul - 624002



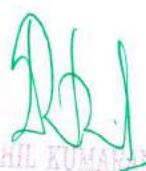
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Dr. D. SENTHIL KUMARAN, M.E., Ph.D
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Palani Road, Dindigul - 624 002



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



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

Principal



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Accredited by NAAC & NBA

Dindigul – Palani Highway, Dindigul -624 002

Date: 28.11.2022

CIRCULAR

We are pleased to inform you that SSM Institute of Engineering and Technology in collaboration with Unnat Bharat Abhiyan (UBA), is organizing a National Conference on Rural Development and Innovation on March 24 - 25, 2023. This conference aims to bring together academia, researchers, and industry experts to explore innovative solutions addressing the challenges faced by rural communities.

The conference will also host an exhibition, providing an opportunity to showcase innovative projects and research outcomes.

Conference Themes:

1. Water and Waste Management
2. Rural Infrastructure
3. Rural Energy Systems
4. Sanitation
5. Capacity Building Strategies for Convergence & Implementation
6. Environment and Sustainable Resource Management



Dr.D.SENTHIL KUMAR, Ph.D., M.E.
Principal
SSM Institute of Engineering and Technology



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

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Dr.D.Senthil Kumaran, M.E., Ph.D
Principal

SSMIET/92/December/2022

Date: 30.12.2022

Greetings from SSMIET,

This is to request your kind self to give consent to be a member of advisory council of the proposed UBA Conference and Exhibition on Rural Innovations scheduled on 24th and 25th March 2023. Themes and subthemes are given below for your kind reference.

I. Water and waste management:

1. Water Management
2. Sewage Management
3. Liquid waste management
4. Agriculture Waste management

II. Rural Infrastructure:

1. Participatory Technological outreach
2. Communication Technologies
3. Health: Physical and Mental
4. Service-Learning Approaches

III. Rural Energy system

1. Batteries and Energy Storages
2. Application of Sensors
3. Renewable Energy Technologies
4. Bio Energy and Solar Energy

IV. Sanitation

1. Technology for Sanitation
2. Wash Strategies and Initiatives
3. Successful Wash Implementation
4. Networking with wash Institute

V. Capacity building strategies for convergence and Implementation

VI. Environment and Sustainable Resource Management

1. Supply chain Management for Rural Sector
2. Resource Mapping for Villages
3. Tele medicine

With regards

PRINCIPAL

Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (MUS)

Principal

SSM Institute of Engineering and Technology





SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

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SSMIET/105/January/2023

Date: 12.01.2023

Dear Sir/Madam,

Greetings from SSMIET

Under the aegis of Unnat Bharat Abhiyan (UBA), we are organising National level Conference and Exhibition on Rural Innovations.

We are very happy to invite you to participate in this two-day event scheduled on March 24(Friday)-25(Saturday) in our campus. You can contribute your credentials as,

1. A Paper Presenter
2. An Exhibiter
3. A Knowledge Partners
4. A Sponsor &
5. An Observer

WITH NO REGISTRATION FEES

We expect your valuable presence representing your institution on this occasion.

Thank you

With Regards,

A handwritten signature in blue ink, appearing to read 'Dr. K. Vinoth Kumar'.

Dr.K.Vinoth Kumar M.E.,M.B.A.,Ph.D.,Post-Doctoral Fellow (Malaysia)

Convener NCERI-2023

Professor/Department of Electronics & Communication Engineering

SSM Institute of Engineering and Technology, Dindigul, Tamil Nadu, India.

GSM: 9787367067



DR. K. VINOTH KUMAR M.E.,Ph.D.,Ph.D.

Principal

SSM Institute of Engineering and Technology
Kurichiappatti Village, Sindalagundu (Po),
Pattam Road, Dindigul - 624 002.



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Dr.D.Senthil Kumaran, M.E., Ph.D

Principal

SSMIET/107/January/2023

Date: 18.01.2023

To

Dr. Virendra Kumar Vijay,
Professor, at Center for Rural Development and Technology
IIT-Delhi
National Co-ordinator
UBA

Respected Professor,

Greetings from SSMIET,

We are pleased to inform your kind self that UBA of SSMIET is organizing a National Conference and Exhibition on Rural innovation dated on March 24th and 25th 2023.

Herewith the information leaf-let is attached for your esteemed reference.

We will be honored by your acceptance to be the Chief Guest to inaugurate this event. We appeal for your highest consideration for being the Chief Guest.

Thanking You

PRINCIPAL

Dr.D.SENTHIL KUMARAN, M.E., Ph.D.,(NUS)

Principal

SSM Institute of Engineering and Technology

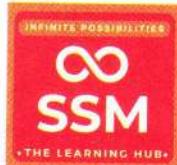
Kuttathupattu Village, Sindalagundu (Po),
Palani road, Dindigul - 624 002.



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SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

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SSMIET/111/January/2023

Date: 19.01.2023

Dear Sir/Madam,

Greetings from SSMIET,

Herewith, the information leaf-let is attached for the National Conference and Exhibition on Rural Innovations dated on March 24th and 25th 2023 for your esteemed reference.

Kindly make it convenient to participate in this grand event. Your valuable presence will enlighten the various cross-sections of people to attend this event in different capacities.

Thanking You

A handwritten signature in blue ink, appearing to read "Dr. K. Vinod Kumar" followed by a date like "19-01-23".

With Regards

Dr.K.Vinod Kumar M.E.,M.B.A.,Ph.D.,Post-Doctoral Fellow (Malaysia)

Convener NCERI-2023

Professor/Department of Electronics & Communication Engineering

SSM Institute of Engineering and Technology, Dindigul, Tamil Nadu, India.

GSM: 9787367067

A handwritten signature in green ink, appearing to read "Dr. K. Vinod Kumar" followed by a date like "19-01-23".

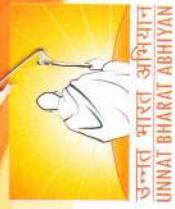
Dr. K. VINOD KUMAR M.E., Ph.D., (ME)
Dindigul
SSM Institute of Engineering and Technology
Kuttiyapatti Village, Sivagangai (Po),
Palani Road, Dindigul - 624 002.



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PATRONS

Dr. D. Senthil Kumaran, Principal, SSMIET, Dindigul, Tamil Nadu

Prof. K. Ravichandran

UBA Regional Coordinator, Gandhigram Rural Institute (Deemed to be University), Dindigul, Tamil Nadu

CONVENER

Dr. K. Vinoth Kumar, Professor/EE/SSMIET

ORGANIZING SECRETARIES

Mr. C. Silambarasan, AP/Mech./SSMIET
Mr. R. Senthil Kumar, AP/CE/SSMIET

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1. Prof. Manoj Kumar Tiwari, IIT Kharagpur
2. Prof. Praveen Kumar, IIT Roorkee
3. Prof. P.M.V. Subbarao, IIT Delhi
4. Prof. Indumathi Nambi, IIT Madras
5. Dr. R. Ramesh, NIRF & PR Hyderabad
6. Prof. Pramod Kumar, Sri Aurobindo College - Delhi University
7. Dr. E. Somasundaram, TNAU Coimbatore (Department of Agribusiness)
8. Dr. R. Balaji, TNAU Madurai. (Export and Innovations)
9. Prof. B.S. Murty, IIT Madras
10. Dr. Ravikumar Kandasamy, MGIRI (Deputy Director of Energy & Infrastructure)
11. Mrs. Uma Chandrika, MSME Madurai (Assistant Director - Chemical)
12. Mr. Nanu Swamy, Founder and Managing Director, Kuttaiupatti Village Sustainable Technology and Industrialization Project, Pudukkottai, Tamil Nadu
13. Mr. Mu. Balasubramaniam, Expert in Sustainable Agriculture, Pothigaisalai Sivagiri Hills, Udhagamandalam, Tamil Nadu
14. Dr. N.V. Sugathan, M.D., Ph.D., Principal, Sarada Krishna Homoeopathic Medical College, Kukkayakhamram, Kanyakumari
15. Dr. N. Sampath Kumar, Principal, SSM College of Arts and Science, Dindigul
16. Dr. M. Daniel Jebaraj, Managing Trustee, PROSPER Foundation, Theni

MITTEE OF CO-CHAIRS

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Karthigai Lakshmi, Head/EE/SSMIET

A. Sundararaman, Head/Auto/SSMIET

Mohanabhu, Head/EEE/SSMIET

Sujatha, Head/CSE/SSMIET

Shanmugam, Head / Physics/SSMIET

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Jeyalakshmi, AsP/CE/SSMIET

ct No - 9639112777

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R. Rajarajeswari, AP/CE/SSMIET

J. Dhanalakshmi, AP/CSE/SSMIET

ct No - 9003326766

ESPONDENCE DETAILS

respondence related to the conference can be made.

R. Senthil Kumar @ 9597156522

respondence related to the exhibition can be made.

C. Silambarasan @ 7373707001

Email -id : nceri2023@gmail.com
nceri2023@ssmiet.ac.in

1. **Dr. D. Senthil Kumaran**, Principal, SSM Institute of Engineering and Technology, Dindigul
2. **Prof. K. Ravichandran**, Organized by Unnat Bharat Abhiyan
3. **Mr. C. Silambarasan**, AP/Mech./SSMIET
4. **Mr. R. Senthil Kumar**, AP/CE/SSMIET
5. **Mr. P. M. V. Subbarao**, IIT Delhi
6. **Dr. R. Ramesh**, NIRF & PR Hyderabad
7. **Prof. Pramod Kumar**, Sri Aurobindo College - Delhi University
8. **Dr. R. Balaji**, TNAU Madurai. (Export and Innovations)
9. **Prof. B. S. Murty**, IIT Madras
10. **Dr. Ravikumar Kandasamy**, MGIRI (Deputy Director of Energy & Infrastructure)
11. **Mrs. Uma Chandrika**, MSME Madurai (Assistant Director - Chemical)
12. **Mr. Nanu Swamy**, Founder and Managing Director, Kuttaiupatti Village Sustainable Technology and Industrialization Project, Pudukkottai, Tamil Nadu
13. **Mr. Mu. Balasubramaniam**, Expert in Sustainable Agriculture, Pothigaisalai Sivagiri Hills, Udhagamandalam, Tamil Nadu
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15. **Dr. N. Sampath Kumar**, Principal, SSM College of Arts and Science, Dindigul
16. **Dr. M. Daniel Jebaraj**, Managing Trustee, PROSPER Foundation, Theni



Submission of Abstract

masses. In addition, other organizations working in similar directions are also invited to submit papers and participate to evolve sustainable synergy among ourselves.

Call for Papers

Original papers preferably based on the following themes are invited.

Conference Themes

I. Water and waste Management

1. Water Management
2. Sewage Management
3. Liquid waste management
4. Agriculture Waste management

II. Rural Infrastructure

1. Participatory Technological outreach
2. Communication Technologies
3. Health: Physical and Mental
4. Service-Learning Approaches

III. Rural Energy System

1. Batteries and Energy Storages
2. Application of Sensors
3. Renewable Energy Technologies
4. Bio Energy and Solar Energy

IV. Sanitation

1. Technology for sanitation
2. Wash Strategies and Initiatives
3. Successful Wash Implementation
4. Networking with wash Institute

V. Capacity Building Strategies for convergence & Implementation

- 
1. Supply chain Management for Rural Sector
 2. Resource Mapping for Villages
 3. Tele medicine

Authors are requested to prepare their abstract and research paper and send a soft copy through email at nceri2023@gmail.com or nceri2023@ssmiet.ac.in. The authors are requested to adhere to the following guidelines.

1. Every paper must be accompanied by a cover page, which should include the title of the paper, name(s) of the author(s) and their affiliations, resident country and the complete postal and e-mail addresses.
2. The Research Papers should be in a Word Document format, Times New Roman, 12-point font size with 1.5 line spacing, 1-inch margins and APA style of referencing.
3. Abstracts should be limited to 350-500 words.

Selected candidates will be informed through mail. The decision of the Review Committee regarding the selection of papers will be final and binding.

Selected papers will be published in the conference proceedings.

Dr.D.SENTHIL KUMARAN, M.E., Ph.D., [FUS]

Principal Investigator
SSM Institute of Engineering and Technology
Kuttathupatti, Kanyakumari, Tamil Nadu, India

| | |
|--------------------------------------|--------------|
| Last Date for Paper Submission | : 11.03.2023 |
| Palani R. Notification of Acceptance | : 18.03.2023 |
| Last Date for Registration | : 20.03.2023 |

Exhibition Details

This exhibition intends to connect 3 different cross section of people namely,

1. Rural innovators
2. Promoting companies
3. Target audience

There are 20 stalls of standard dimensional space in which rural innovation/Technology products to be exhibited.

Any product relevant to any one of the subthemes shall be exhibited for 2 days. For further details contact

Mr.C.Silambarasan (73737 07001).

Bharat Abhiyan is inspired by the vision of transformational change in rural development processes emerging knowledge institutions to help build the structure of an Inclusive India. The conceptualization of started with the initiative of a group of dedicated members of IIT Delhi working for long in the area of development and appropriate technology. The project was nurtured through wide consultation with the representatives of a number of technical institutions.

SSMIET

nmugavel Mills (SSM) is one of the leading business in Textile Industry in Dindigul District for over 30 years. SSM Group's strong desire to offer world-class Quality Engineering Education has led to the launch of SSM T at Dindigul from the academic year 2011-2012. Knowledge is provided by teachers, text books and alternative modes with others in the society. Skills could be developed only through perennial practice. SSMIET has those qualities in the younger generation, besides vision. As a basic philosophy, all the students would be educated with the importance of ethics, values, respect, culture and national pride.

Conference

jective of the conference is to demonstrate how problems can be treated as research challenges so mainstream researchers take interest in order to get publications while solving socially relevant issues. This in turn will help in the documentation and research generation throughout the world not to mention. Satisfying the criteria for career advancement, it is expected that such activities among our younger generation will make them more conscious about the gross level social issues enabling them to bring new technological solutions in the form of appropriate design or entrepreneurship models for the benefit of the rural



www.ssmiet.ac.in

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY, Dindigul

Cordially invite all for the

Inauguration of

“National Conference & Exhibition on Rural Innovations”

In the presence of



Sri. C. KANDASWAMY
Managing Trustee, SSMIET

Chairman, SSMIET

Sri. K. SHANMUGAVEL

Chief Guest

Mr. JAISINH VAERKAR

Chairman, CII - Southern Region, Madurai Zone
Managing Partner, The Peninsular Export Company,
Virudhunagar.

On 24th March 2023 (Friday)
@ 10.00 a.m., Seminar Hall-1, SSMIET

26.3

M&M 99652 96969

Note : Exhibition on rural Innovation will be inaugurated by the chief guest @ 11.30 am

Dr. K. Vinoth Kumar

Convenor

Prof. K. Ravichandran

UBA Regional Coordinator

Dr. D. Senthil Kumaran

Principal



www.ssmiet.ac.in

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY, Dindigul

Cordially invite all for the

Valedictory of

“National Conference & Exhibition on Rural Innovations”

In the presence of

Sri. C. KANDASWAMY

Managing Trustee, SSMIET

Sri. K. SHANMUGAVEL

Chairman, SSMIET

Chief Guest

Mr. NANU SWAMY & Ms. NAVEENA SWAMY

Managing Director

Founder

Maxelerator Foundation, Madurai

*On 25th March 2023 (Saturday),
@ 03.30 p.m, Seminar Hall-1, SSMIET*

M&M 99652 96969

Dr. K. Vinod Kumar

Convener

Prof. K. Ravichandran

UBA Regional Coordinator

Dr. D. Senthil Kumaran

Principal



NATIONAL CONFERENCE AND EXHIBITION ON RURAL INNOVATIONS

Organized by

Unnat Bharat Abhiyan SSM Institute of Engineering and Technology

Dindigul-Palani Highway, Dindigul - 624 002.

Approved by AICTE, New Delhi | Affiliated to Anna University, Chennai

Accredited by NAAC (2019-2024) & NBA (2022-2025)- ECE, EEE & Mech

Registration Form

| | |
|----------------------------------|--|
| Paper ID | NCERI - WWM -15 |
| Title of the Paper | AN OVERVIEW OF WASTE MANAGEMENT IN MADURAI DISTRICT. |
| Name of the Institution | THIAGARAJAR COLLEGE OF ARTS AND SCIENCE, MADURAI |
| Authors Details with Designation | 1. P. MARI MANJU LAKSHMI - (STUDENT) II - M.A ECONOMICS. 2. 3. 4. 5. |
| Accommodation | YES / NO |
| Email ID | marimanjulakshmi@gmail.com |
| Whats App No | 7448476211 |
| Address | 8/3, KRISHNA ILLAM, ABIRAMI STREET, NEW VITANGUDI. MADURAI - 625018. |



Dr. D. SENTHIL KUMARAN, M.E., Ph.D., (RUS)
Principal

NATIONAL CONFERENCE AND EXHIBITION ON RURAL INNOVATIONS



March 24 - 25, 2023

Organized by

UNNAT BHARAT ABHIYAN

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

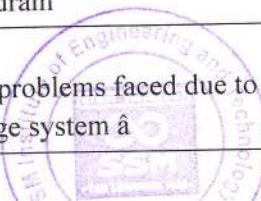
Dindigul, Tamilnadu



PARTICIPANT NAME LIST

WATER AND WASTE MANAGEMENT

| S.No | Author Name | Paper ID | Paper title | Institution Name | Contact number |
|------|--|----------------------|---|---|----------------|
| 1 | P. MARI MANJU LAKSHMI | NCERI- WWM- 15 | An overview of waste management in madurai district | Thiagarajar College of Arts and Science | 7448476211 |
| 2 | JANAKI S | NCERI- WWM- 11 | The study of solid waste management in madurai corporation | THIAGARAJAR ARTS & SCIENCE COLLEGE | 6379833611 |
| 3 | Dr.N.Lavanya | NCERI- WWM- 22 | A study on agricultural waste management and impacts on agri-production | Sri Sarada College for women(Autonomous) | 9488703094 |
| 4 | PARKAVI K M S | NCERI- WWM- 16 | Review on water and waste management for environmental sustainability | Sri Sarada College for Women, Tirunelveli | 6380075640 |
| 5 | AKILA .P | NCERI- WWM- 24 | Role of ngos and cbos in solid waste management in tirunelveli municipality of tamil nadu | Sri Sarada College for Women (Autonomous), Ariyakulam, Tirunelveli, Tamil Nadu | 8760708160 |
| 6 | JAYASHREE. S & Dr. Muthulakshmi R | NCERI -WWM -10 | The Awareness About Agricultural waste by using 3R Approches | Sri Sarada College for Women (Autonomous), Tirunelveli-627011 | 9344449270 |
| 7 | BOOMIGA R | NCERI- WWM- 20 | Wastewater management in nochikulam village | SRI SARADA COLLEGE FOR WOMEN (AUTONOMOUS) | 8754889240 |
| 8 | Renga Priyanka R , Subhashini P & Dr. Muthulakshmi R | NCERI -WWM -14 | Water and Waste Management | Sri Sarada College for Women (Autonomous), Tirunelveli- 627011 | 9344449270 |
| 9 | SIVAPRIYA A | NCERI- WWM- 01 | Water management in gopalasamudram | SRI SARADA COLLEGE FOR WOMEN (AUTONOMOUS), TIRUNELVELI -11 | 9788854551 |
| 10 | DHANASHRI BABU | NCERI- WWM- 12 | Analysis of problems faced due to open drainage system â | PSG college of Pharmacy Dr. S. SURENDRA KUMARAN, M.E., Ph.D., (RUS)  | 8489787831 |



Principal

NATIONAL CONFERENCE AND EXHIBITION ON RURAL INNOVATIONS



March 24 - 25, 2023

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SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul, Tamilnadu

| | | | | | |
|----|--|--------------|---|---|------------|
| 11 | Dr.R.Kavitha | NCERI-WWM-19 | A Study on Agricultural Water Management in Tirunelveli District | Sri Sarada College for Women(Autonomous),Tirunelveli | 9361102749 |
| 12 | S. Selvalakshmi Meera | NCERI-WWM-04 | Water and Waste Management | Sri Sarada College for Women-Tirunelveli | 9360382491 |
| 13 | INDHUMATHI .R.THEVAR | NCERI-WWM-25 | Scrutinize of challenges and solutions on water management | Sri Sarada College for Women (Autonomous) Tirunelveli | 6383210268 |
| 14 | PRANESH C , SOWMIYA R, VIDHYA BHARATHI S | NCERI-WWM-08 | Experimental study on partial replacement of coarse aggregate by using coconut shell and cement with flyash | VELALAR COLLEGE OF ENGINEERING AND TECHNOLOGY, ERODE, TN | 8148834962 |
| 15 | PRANESH C, ARUNRAMAN AN V & GUNA T | NCERI-WWM-09 | Experimental study on industrial sludge and coconut coir in strengthening of red bricks | Velalar College of Engineering and Technology, Erode, India | 8148834962 |
| 16 | Megavarshini G | NCERI-WWW-28 | Crop Yield Prediction using iot | Vivekanandha College of Engineering for Women(Autonomous) | 9361259298 |

RURAL INFRASTRUCTURE

| S.No | Author Name | Paper ID | Paper Title | Institution Name | Contact number |
|------|------------------|--------------|--|--|----------------|
| 1 | BOOMIKA M | NCERI-RI-13 | TILLAGE SAVIOR | Vivekanandha College of Engineering for Women(Autonomous) | 8098220100 |
| 2 | DEEPAK S | NCERI-RI-21 | BLOCKCHAIN BASED INTRUSION DETECTION IN IOT NETWORKS | Anjalai Ammal Mahalingam Engineering College | 9486781600 |
| 3 | MARIA BHARATHI A | NCERI-RI-09 | Financial Literacy Level under Rural Infrastructure | SRI SANKARA BHAGAVATHI ARTS AND SCIENCE COLLEGE, KOMMADIKOTTAI | 8870891347 |
| 4 | RAJESWARI T | NCERI-RI-07 | Online Banking Service -Rural Infrastructure | SRI SANKARA BHAGAVATHI ARTS & SCIENCE COLLEGE, KOMMADIKOTTAI | 9976631819 |
| 5 | SRI DEVI & DR. | NCERI-RI -06 | participatory Technological Outreach | Sri Sarada College for Women (Autonomous), Tirunelveli-627011 | 9344449270 |

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|----|---------------------|-----------------|--|--|------------|
| | MUTHULAKS HMI. R | | | | |
| 6 | Dr SUNIL RAJ Y | NCERI- RI-03 | Framework for ICT based Physical and Mental Health Monitoring â€“ An Extensive Survey | St Joseph's College (Autonomous), Tiruchirappalli-2 | 8148115817 |
| 7 | B.Manoharan | NCERI- RI-19 | IOT DEVICES PROXIMITY AUTHENTICATION AND SURVEILLANCE IN INDUSTRIAL NETWORK | Anjalai Ammal Mahalingam Engineering college | 6382950251 |
| 8 | SURYA KUMAR S | NCERI- RI-20 | NEURAL NETWORK BASED INTRUSION DETECTION SYSTEM IN IOT ENVIRONMENT | Anjalai Ammal Mahalingam Engineering College | 9123554636 |
| 9 | Dr KAVITHA R | NCERI- RI-08 | INFORMATION AND COMMUNICATION TECHNOLOGY FOR RURAL DEVELOPMENT | Sri Sarada College for Women(Autonomous), Tirun elveli | 9361102749 |
| 10 | SORNAM T | NCERI- RI-01 | Rural Infrastructure | Sri Sarada College for Women(Autonomous), Tirunelveli-627011 | 7339110276 |
| 11 | VIMAL VINISHA S | NCERI- RI-18 | SMART HYDROPHONIS IN AGRICULTURE USING IOT | VIVEKANANDHA COLLEGE OF ENGINEERING FOR WOMEN, AUTONOMOUS | 7339293978 |
| 12 | CHITRA. D. R | NCERI- RI-30 | A Study on the Perceptions of Faculty Members on the Community Engagement Programmes of Higher Education Institutions in Tamil Nadu | Mother Teresa Women's University | 8903267827 |

CAPACITY BUILDING STRATEGIES FOR CONVERGENCE & IMPLEMENTATION

| | | | | | |
|---|---|------------------------|--|--|------------|
| | SAKTHIVEL RAMANATHA N, GNANASEKA RAN.B.M, GANESHAN.P | NCERI- CBSCI- 02 | Sustainable Concrete Manhole Cover for Septic Tank Construction | FATIMA MICHAEL COLLEGE OF ENGINEERING AND TECHNOLOGY, MADURAI-20 | |
| 1 | | | | | 9092424325 |

ENVIRONMENT AND SUSTAINABLE RESOURCE MANAGEMENT

| | | | | | |
|---|-----------------------|-----------------------|---|--|------------|
| | Dr. KINJAL V JOSHI | NCERI- ESRM- 03 | Telemedicine: An Application of Information Technology in Medical Field | G H Patel College of Engineering & Technology | |
| 1 | | | | | 9924692719 |

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|---|------------------------------------|---------------|--|--|------------|
| 2 | AISHWARYA A, DR.MUTHULA KSHMI R | NCERI-ESRM-05 | Impact of supply chain management on rural sector | Sri Sarada College for Women [Autonomous], Tirunelveli -627011 | 9344449270 |
| 3 | JAYASRI.K | NCERI-ESRM-02 | A study on Telemedicine for the economic development | Sri Sarada College for Women | 8778519738 |

RURAL ENERGY SYSTEMS

| S.No | Author Name | Paper ID | Paper Title | Institution Name | Contact number |
|------|-------------------------|--------------|--|--|----------------|
| 1 | S SREE SUTHA, P ARUNA | NCERI-RES-10 | SENSOR APPLICATION FOR PLANT DISEASE DETECTION USING DEEP LEARNING | Sri Sarada College for Women (Autonomous) Tirunelveli-627011 | 6379038905 |
| 2 | SUMATHY S | NCERI-RES-01 | Application of sensors in energy system | Sri Sarada College for Women Tirunelveli | 8146134347 |
| 3 | VASUPRADA ADHI SHREE.G | NCERI-RES-11 | SCRUTINIZE OF SERVICE LEARNING IN RURAL EDUCATION | SRI SARADA COLLEGE FOR WOMEN (AUTONOMOUS) TIRUNELVELI | 7603864200 |
| 4 | AYSHWARYA DHANA LAKSHMI | NCERI-RES-09 | A STUDY ON BIOGAS AND SOLAR ENERGY IN PASTORAL AREA | SRI SARADA COLLEGE FOR WOMEN | 6385283766 |

SANITATION

| | | | | | |
|---|-------------|-------------|---|---|------------|
| 1 | RISHITA . A | NCERI-SA-05 | Design and Performance Analysis of Ultraviolet Sterilizer using XT546 Timer | VIVEKANANDHA COLLEGE OF ENGINEERING FOR WOMEN | 7598896841 |
| 2 | SANDEEP K G | NCERI-SA-01 | Assessment of Sanitary Practices with Literacy and Poverty Status of Rural Population in Tamil Nadu | PSG COLLEGE OF PHARMACY | 9789169594 |



Dr.Senthil Kumar, M.E., Ph.D.
Principal
SSM Institute of Engineering and Technology
Dindigul, Tamilnadu

PRINCIPAL



**NATIONAL CONFERENCE AND EXHIBITION
ON
RURAL INNOVATIONS**
March 24 - 25, 2023
Organized by
UNNAT BHARAT ABHIYAN
**SSM INSTITUTE OF ENGINEERING AND
TECHNOLOGY**
Dindigul, Tamilnadu



Date / Session / Time : 24.03.2023 / I / 11am to 1pm

Chairperson: Mr. Balasubramanian, Expert in Sustainable Agriculture, Pothigaisolai

Co-Chair: Dr.G.Sankaranarayanan, Head/Mech/SSMIET

Faculty Incharge : Dr.M.Jeyalakshmi,AsP/ECE/SSMIET , Dr.M.Premkumar,AsP/ECE/SSMIET

| S.No | Title | Author Name | Institution |
|------|---|-----------------------|--|
| 1. | Analysis Of Problems Faced Due to Open Drainage System | Dhanashri Babu | PSG College Of Pharmacy |
| 2. | A Study on The Perceptions of Faculty Members on The Community Engagement Programmes of Higher Education Institutions In Tamil Nadu | Chitra. D. R | Mother Teresa Women's University |
| 3. | Rural Infrastructure | Sornam T | Sri Sarada College for Women (Autonomous), Tirunelveli-627011 |
| 4. | A Study on Agricultural Waste Management and Impacts on Agri-Production | Dr.N.Lavanya | Sri Sarada College for Women (Autonomous) Ariyakulam, Tirunelveli, Tamil Nadu |
| 5. | An Overview of Waste Management in Madurai District | P. Mari Manju Lakshmi | Thiagarajar College Of Arts and Science |
| 6. | Role Of NGOS AND CBOS in Solid Waste Management in Tirunelveli Municipality Of Tamil Nadu | Akila. P | Sri Sarada College for Women (Autonomous), Ariyakulam, Tirunelveli, Tamil Nadu |



Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS)
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Dindigul, Tamilnadu



Date / Session: 24.03.2023 / II / 2pm to 4pm

Chairperson: Prof. K. Ravichandran, UBA Regional Coordinator, Gandhigram Rural Institute, Dindigul

Co-Chair: Dr.S.Karthigai Lakshmi, Head/ECE/SSMIET

Faculty Incharge : Dr.M.Jeyalakshmi, AsP/ECE/SSMIET , Dr.M.Premkumar, AsP/ECE/SSMIET

| S.No | Title | Author Name | Institution |
|------|---|--|--|
| 1. | Assessment Of Sanitary Practices with Literacy and Poverty Status of Rural Population in Tamil Nādu | Sandeep K G | PSG College Of Pharmacy |
| 2. | Sustainable Concrete Manhole Covers for Septic Tank Construction | Sakthivel Ramanathan, Gnanasekaran.B.M, Ganeshan.P | Fatima Michael College of Engineering and Technology, Madurai-20 |
| 3. | Sensor Application for Plant Disease Detection Using Deep Learning | S Sree Sutha, P Aruna | Sri Sarada College for Women (Autonomous) Tirunelveli-627011 |
| 4. | The Study of Solid Waste Management in Madurai Corporation | Janaki S | Thiagarajar Arts & Science College |
| 5. | Application Of Sensors in Energy System | Sumathy S | Sri Sarada College for Women (Autonomous) Tirunelveli-627011 |
| 6. | A Study on Biogas and Solar Energy in Pastoral Area | Ayshwarya Dhana Lakshmi | Sri Sarada College for Women |





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Dindigul, Tamilnadu



Date / Session / Time: 25.03.2023 / I / 10.30am to 12.30pm

Chairperson: Dr.T.Jayasankar,Senior Assistant Professor

Co-Chair: Dr.G.Mohanbabu, Head/EEE/SSMIET

Faculty Incharge: Dr.M.Jeyalakshmi,AsP/ECE/SSMIET , Dr.M.Premkumar,AsP/ECE/SSMIET

| S.No | Title | Author Name | Institution |
|------|---|---|---|
| 1. | Smart Hydrophonis in Agriculture Using IOT | Vimal Vinisha S | Vivekanandha College Of Engineering for Women, Autonomous |
| 2. | Experimental Study on Industrial Sludge and Coconut Coir in Strengthening of Red Bricks | Pranesh C, Arunramanan V & Guna T | Velalar College Of Engineering and Technology, Erode, India |
| 3. | Blockchain Based Intrusion Detection in IOT Networks | Deepak S | Anjalai Ammal Mahalingam Engineering College |
| 4. | IOT Devices Proximity Authentication and Surveillance in Industrial Network | B.Manoharan | Anjalai Ammal Mahalingam Engineering College |
| 5. | Neural Network Based Intrusion Detection System in IOT Environment | Surya Kumar S | Anjalai Ammal Mahalingam Engineering College |
| 6. | Experimental Study on Partial Replacement Of Coarse Aggregate By Using Coconut Shell And Cement With Flyash | Pranesh C, Sowmiya R, Vidhya Bharathi S | Velalar College Of Engineering and Technology, Erode, Tn |



Dr. M. PREMKUMAR, Asst. Prof.
SSM Institute of Engineering and Technology



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Dindigul, Tamilnadu



Date / Session / Time: 25.03.2023 / II / 1.30pm to 3.30pm

Chairperson: Mrs. Uma Chandrika, Assistant Director (Chemical), MSME Madurai

Co-Chair: Dr.C.Sujatha, Head/ CSE /SSMIET

Faculty Incharge : Dr.M.Jeyalakshmi,AsP/ECE/SSMIET , Dr.M.Premkumar,AsP/ECE/SSMIET

| S.No | Title | Author Name | Institution |
|------|--|------------------------------|--|
| 1. | Crop Yield Prediction Using IOT | Megavarshini G | Vivekanandha College Of Engineering for Women (Autonomous) |
| 2. | Design And Performance Analysis of Ultraviolet Sterilizer Using XT546 Timer | Rishita. A | Vivekanandha College Of Engineering for Women (Autonomous) |
| 3. | Tillage Savior | Boomika M | Vivekanandha College Of Engineering for Women (Autonomous) |
| 4. | A Study of Milk and Ghee Adulteration and Method of Detection of Various Chemicals Adulterants Qualitatively | Sakthivel K | SSM College Of Arts and Science |
| 5. | Smart Water Management System in Urban Areas Using Lora Technology | R.Sneka ,M.Shobana | SSM Institute of Engineering & Technology |
| 6. | Survey On Health Care in Rural India | Revathy.S ,Ruthra Sivaguru.K | SSM Institute of Engineering & Technology |



Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS)
Principal



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY, DINDIGUL

NATIONAL CONFERENCE AND EXHIBITION ON RURAL INNOVATIONS

March 24 - 25, 2023

TECHNICAL SESSION REPORT

SESSION I

Chairperson : **Mr.Balasubramanian**, Expert in Sustainable Agriculture, Pothigaisolai
Co-Chair: **Dr.G. Sankaranarayanan** , Head/ Mech / SSMIET.

1.Analysis Of Problems Faced Due to Open Drainage System

Author Details: Dhanashri Babu, S.Pranesh, Dr.S.Lavanya, Dr.Prudence A Rodrigues
PSG College Of Pharmacy

This paper identifies the problems related to open drainage system and methods to improve the quality of life for the inhabitants by resolving the issues caused due to open drainage system. It also explains the health hazards to the population, if the open drains are left unchecked. Some of the key points are

Key points taken

- Water-borne illness and infections due to lot of wastewater have been discussed.
- Discussed about the Contamination of domestic water due to **Open Drainage System**.
- It also explains the dangers associated with open drains and possible solutions.
- Health issues related to open drainages like exposure to agrochemicals, fecal waste, and water-related borne diseases are discussed.

Suggestions from experts

- **Statistical data collection** from Municipalities or online for identifying any problems should be from **recent past years** so that accuracy of prediction of problems could be clear and understandable for writing a proposal to Government schemes .
- Prediction of diseases due to open drainage systems should be clearly identified and discussed.
- Students should be encouraged to actively participate in survey of village problems in order to rectify the problems.



Dr.D.SENTHIL KUMARAN, M.E, Ph.D., (NUS)
Principal



2. Rural Infrastructure

**Author Details: Sornam T
Sri Sarada College for Women (Autonomous) Tirunelveli**

This paper discuss about the development of rural areas in terms of their education, transport, drinking water, electricity/energy, sanitation, health, housing. Several central government schemes have been discussed which is used for the development of students life style in rural areas. Here are some key learning from the topic:

Key points taken

Rural development schemes like Ayushman Bharat Digital Mission helps to provide healthcare infrastructure Ayushman Bharat Digital Mission will connect the digital health solutions of hospitals across the country with each other.

The Mission will not only make the processes of hospitals simplified but also will increase ease of living. The Digital Ecosystem will also enable a host of other facilities like Digital Consultation, Consent of patients in letting medical practitioners access their records.

Ayushman Bharat Health Account achieving safer and more efficient health data access

To improve the implementation efficiency of the social security services for the unorganized workers and integration of Social Security Schemes meant for UWs being administered by MoLE and subsequently those run by other ministries as well

Overall, the benefit of all central government rural development scemes have beed discussed.

3. A Study on Agricultural Waste Management and Impacts on Agri-Production

Author Details: Dr.N.Lavanya, K.Krishnaveni

Sri Sarada College for Women(Autonomous) Ariyakulam, Tirunelveli, Tamil Nadu

These work insights into usage of Agriculture waste and how it has been used effectively Agriculture produces organic wastes and byproducts that almost always contain all of the necessary plant nutrients. Here are some key learning points from the topic:

Key points taken

Agricultural waste is any substance produced during the growing of crops or other plants. Using agricultural waste is a major challenge, especially in light of the estimated global energy demand gap. This biomass and agricultural waste was either burned or spontaneously transformed into organic fertilizer.

Due to its high potential for energy conversion, biomass made from agricultural waste is being employed to create electricity some of these crops may compete with traditional crops for



Dr. D. Ravinder

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land and other resources, while others may be cultivated on marginal soils or even in ecologically degraded areas, which would benefit the environment.

Overall, this paper provides useful insights into waste management from agriculture and proper waste utilization that will assist in developing our agricultural sector.

4. An Overview of Waste Management in Madurai District

Author Details: P. Mari ManjuLakshmi
Thiagarajar College Of Arts andScience

This paper review about the different methods of waste Manaagement in order to protect from harmful disease and creating awareness among women through Intensive questionnaire survey that was made to assess the knowledge of rural women population in 15 villages of three blocks. Some of the key points are

Key points taken

From this study, the targeted rural SHG women of Madurai district have improved their knowledge on importance of water, scope and demand of water, rainwater harvesting and hygienic practices in water usage.

It was also revealed that the rural SHG women have raised to 80% from 50% in their Eco-WaSH literacy level. The targeted women was also benefitted due to the recycling of liquid waste and its utilization for kitchen gardening and thereby improving their economic level.

5. Role of NGOS AND CBOS in SolidWaste Management in Tirunelveli Municipality Of Tamil Nadu

Author Details: Akila. P
Sri Sarada College for Women (Autonomous) Tirunelveli

This work assesses the scenario of municipal solid waste management in Tirunelveli municipality and the role NGOs/CBOs play in its effective management.

Key points taken

A Public awareness have been created and enlisting their support, along with NGOs/CBOs initiatives, which is crucial for effective solid waste management.

Method of producing organic manure from the vast amount of organic biodegradable trash (70%) that could be utilized for organic farming have been discussed.

Suggestions

- For the paper “**Role of NGOS AND CBOS in Solid Waste Management in Tirunelveli Municipality Of Tamil Nadu**” the chair person recommended this team to in connect with NGO’s through various awareness program

- Field visit is essential for studying the problems in villages clearly.

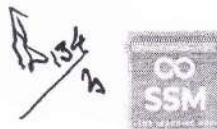
Overall Suggestions

- ❖ **Statistical data collection** from Municipalities or online for identifying any problems should be from **recent past years** so that accuracy of prediction of problems could be clear and understandable for writing a proposal to Government schemes .
- ❖ **Quality of academic programmes** and **research activities** related to **rural culture** should be felicitated to the students community through UBA schemes .
- ❖ The development of rural area is the development of economical level in the society. At Institutional level, **student Projects solving the rural people problems** should be concentrated so that it could uplift the level of people in villages.


Faculty Incharge




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NATIONAL CONFERENCE AND EXHIBITION ON RURAL INNOVATIONS

March 24 - 25, 2023

TECHNICAL SESSION REPORT

SESSION II

Chairperson : Prof. K.Ravichandran, UBA Regional Coordinator, Gandhigram Rural Institute, Dindigul

Co-Chair : Dr.S.Karthigai Lakshmi, Head/ECE, SSM Institute of Engineering and Technology, Dindigul.

1. Assessment of Sanitary Practices with Literacy and Poverty Status of Rural Population in Tamilnadu

Author Details: S. Lavanya, Prudence A Rodrigues, Sandeep K G, R. Jenose Asmila, D. Dheepthi , A. Preethi Nivedhaa

Department of Pharmacy Practice, PSG College of Pharmacy,
Coimbatore, Tamil Nadu, India.

Takeaway points

This project provides important insights into the sanitation practices of rural communities in Tamil Nadu and the impact of literacy and poverty on these practices. Here is some key learning from the topic:

- Open defecation is still prevalent in rural areas of Tamil Nadu: Despite efforts by the government and various organizations, open defecation remains a significant problem in many rural communities in Tamil Nadu. This is due to various factors such as lack of access to toilets, poverty, and lack of awareness about the importance of good sanitation practices.
- Education plays a crucial role in improving sanitation practices: The study highlights the positive correlation between literacy and good sanitation practices. Educated individuals are more likely to adopt good hygiene practices, such as using toilets, washing hands regularly, and disposing of waste properly.
- Poverty is a significant barrier to improving sanitation practices: Poverty is a major barrier to improving sanitation practices in rural communities. Poor households often lack the resources to build toilets or access safe water and sanitation facilities. Therefore, addressing poverty is a critical step in improving sanitation practices.
- Community engagement is the key to improving sanitation practices: The study highlights the importance of involving communities in the design and implementation of sanitation programs. Engaging communities and empowering them to take ownership of their sanitation facilities can lead to better outcomes and sustainability of sanitation practices.



Dr.D.SENTHIL KUMARAN, M.E., Ph.D., IITB
26/3

- Multidisciplinary approaches are needed to improve sanitation practices: Improving sanitation practices requires a multidisciplinary approach that involves collaboration between government agencies, non-governmental organizations, and other stakeholders. Such an approach should include education, infrastructure development, and community engagement.

Overall, the topic highlights the urgent need to improve sanitation practices in rural areas of Tamil Nadu and the importance of addressing poverty and promoting education to achieve this goal. It also underscores the need for multidisciplinary approaches and community engagement to ensure sustainability and long-term impact.

2. Sustainable Concrete Manhole Covers for Septic Tank Construction

CE

Author Details: Sakthivel Ramanathan, Gnanasekaran.B.M,Ganeshan.P
Fatima Michael College of Engineering and Technology, Madurai

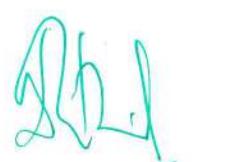
Takeaway points

This topic provides important insights into sustainable construction practices for septic tank systems. Here is some key learning from the topic:

- Traditional septic tank systems often use non-sustainable materials for manhole covers, such as plastic or metal, which can have negative environmental impacts.
- Sustainable materials, such as concrete, can be used for manhole covers: The topic highlights the use of sustainable materials, such as concrete, for manhole covers in septic tank systems. Concrete is a durable, low-maintenance material that can be produced sustainably.
- Precast concrete manhole covers are a sustainable option for septic tank systems because they can be produced off-site, reducing waste and minimizing the environmental impact of production.
- Sustainable manhole covers, such as those made of concrete, can improve the durability and safety of septic tank systems by providing a sturdy cover that can withstand heavy loads and prevent unauthorized access.
- Implementing sustainable septic tank systems, including the use of sustainable manhole covers, can have positive environmental and social impacts. Sustainable systems can reduce the risk of groundwater contamination and promote safe sanitation practices, while also creating local employment opportunities.

Overall, the topic highlights the importance of sustainable construction practices in septic tank systems and the potential benefits of using sustainable materials, such as concrete, for manhole covers. It also underscores the need for more sustainable practices in the construction industry to reduce environmental impacts and promote social and economic sustainability.




Dr. DINESH KUMAR, A.M.Tech, M.S.
Principal
Fatima Michael College of Engineering and Technology

3. Sensor Application for Plant Disease Detection Using Deep Learning

EOE
LSE

Author Details: S Sree Sutha, P Aruna
Sri Sarada College for Women (Autonomous) Tirunelveli

Takeaway points

From this work, we can learn about the following:

- Detecting plant diseases is crucial for improving crop yields, reducing food losses, and ensuring food security.
- The use of sensors, such as cameras and spectral sensors can help in the early detection of plant diseases.
- Here the deep learning algorithms, specifically neural networks, are increasingly being used for plant disease detection using sensor data.
- Image-based detection involves taking images of plant leaves and using deep learning algorithms to identify the presence of disease.
- Spectral sensors measure the reflectance or absorbance of light by plants in different wavelengths, providing information about plant health and disease.
- The use of sensor-based detection and deep learning algorithms can help in quick and accurate detection of plant diseases.
- Early detection of plant diseases can help in preventing crop losses and reducing the need for harmful pesticides.

Overall, the use of sensor-based detection and deep learning techniques for plant disease detection has the potential to transform agriculture and improve food security.

4. The Study of Solid Waste Management in Madurai Corporation

Author Details: Janaki S
Thiagarajar Arts & Science College, Madurai

Takeaway points

This study provides insights into how solid waste is managed in the city of Madurai in India. Some of the key findings and recommendations from the study may include:

- Assessment of the quantity and composition of solid waste generated in Madurai, including the types of waste generated by households, commercial establishments, and industries.
- Analysis of the existing solid waste management system in Madurai, including the collection, transportation, processing, and disposal of waste.
- Identification of the key challenges faced by the Madurai Corporation in managing solid waste, such as inadequate infrastructure, lack of public awareness and participation, and insufficient funding.
- Recommendations for improving the solid waste management system in Madurai, such as increasing the frequency of waste collection, promoting waste segregation at source,

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setting up decentralized waste processing facilities, and involving the private sector in waste management activities.

- Analysis of the environmental and health impacts of improper solid waste management in Madurai, and the need for sustainable and environmentally-friendly waste management practices.

Overall, the study can provide useful insights for policymakers, waste management officials, and other stakeholders in Madurai and other cities facing similar challenges in managing solid waste.

5. Application of Sensors in Energy System

Author Details: Sumathy S
Sri Sarada College for Women (Autonomous) Tirunelveli

ME
VK

Takeaway points

From the above search, we can learn about the various applications of sensors in energy systems. Some of the key takeaways are:

- Sensors are crucial components in modern energy systems, and they play a critical role in improving efficiency, safety, and reliability.
- Sensors are used in various applications, such as power generation, renewable energy, energy storage, energy distribution, and energy consumption.
- In power generation, sensors are used to monitor and control various parameters such as temperature, pressure, flow rate, and vibration.
- In renewable energy systems such as wind turbines, solar panels, and hydroelectric power plants, sensors help to monitor wind speed, solar radiation, water level, and other parameters, leading to efficient power generation and ensuring safety and reliability.
- In energy storage systems such as batteries, flywheels, and capacitors, sensors monitor the state of charge, temperature, and other parameters, leading to optimized storage and discharge of energy and longer life of the storage system.
- In energy distribution, sensors monitor voltage, current, and power flow, helping to detect faults and improve efficiency and reliability.
- In energy consumption, sensors monitor energy usage in buildings, factories, and other facilities, helping to identify energy wastage and optimize energy usage, leading to cost savings and reduced environmental impact.

Overall, the use of sensors in energy systems is critical to ensuring efficient, safe, and reliable energy production, transmission, and consumption, and to meet the growing demand for sustainable energy solutions.



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6. A Study on Biogas and Solar Energy in Pastoral Area

Author Details: Ayshwarya Dhana Lakshmi

Sri Sarada College for Women (Autonomous) Tirunelveli

Takeaway points

Here are some takeaway points from this topic is

- Biogas and solar energy have the potential to provide sustainable and clean energy solutions to pastoral communities.
- Biogas is produced from the decomposition of organic waste, and solar energy is produced by harnessing the energy from the sun through solar panels.
- A study on the feasibility of implementing biogas and solar energy systems in pastoral areas would involve assessing the availability of organic waste and solar resources in the area, evaluating the technical and economic viability of these systems, and considering the social and cultural context of the pastoral community.
- Community engagement and education are crucial in ensuring the successful implementation and sustainability of these systems.
- The implementation of biogas and solar energy systems in pastoral areas can significantly improve the standard of living in these communities, by providing a reliable and affordable source of energy for cooking, heating, lighting, and water pumps.

Suggestions

- For the paper "Sensor Application for Plant Disease Detection Using Deep Learning" the chair person recommended this team to participate in IIT, Delhi.
- Also suggested the students to work in new technology based Agriculture projects for rural people.
- Field visit is essential for studying the problems in villages clearly.

Follow up plans

- Formation of a committee that involves various stakeholders in identifying issues requiring intervention by higher education institutions.
- Development of an action plan for the adopted village in collaboration with Central and State Government organizations.
- State-level planning for rural development by incorporating all the UBA institutes.
- Adoption of a cluster-based approach for village development.
- Encouraging students to work on rural issues as a part of UG and PG projects.

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SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY, DINDIGUL

NATIONAL CONFERENCE AND EXHIBITION ON RURAL INNOVATIONS

March 24 - 25, 2023

TECHNICAL SESSION REPORT

SESSION III

Chairperson : **Dr.T.Jayasankar**, Senior Assistant Professor, Anna University, Trichy
Co-Chair : **Dr.G Mohanbabu**, Head/EEE, SSM Institute of Engineering and Technology, Dindigul.

1. Smart Hydroponics in Agriculture using IOT

Author Details: Vimal Vinisha S

Vivekanandha College of Engineering for Women (Autonomous), Thiruchengode

~~EEE
ME~~

Takeaway points

Here are some key ways in which IoT is being used in smart hydroponics for agriculture:

- IoT sensors can be used to monitor key environmental factors such as temperature, humidity, pH levels, and nutrient levels. By collecting and analyzing data from these sensors, farmers can optimize plant growth and yield, while reducing water and fertilizer use.
- Smart hydroponics systems can be automated using IoT devices such as actuators, pumps, and valves. These devices can adjust environmental factors in real-time based on the data collected by sensors, ensuring that plants receive the optimal conditions for growth.
- With cloud-based data analytics, farmers can remotely monitor and control their smart hydroponics systems from anywhere in the world. This enables farmers to respond to issues quickly and efficiently, reducing the risk of crop failure.
- Smart hydroponics systems enable farmers to practice precision agriculture, which involves tailoring crop management practices to specific plant needs. This can improve crop yields, reduce waste, and lower the environmental impact of farming.

Overall, smart hydroponics using IoT has the potential to revolutionize the way we grow food, making agriculture more sustainable and efficient. By using sensors, automated systems, and cloud-based data analytics, farmers can optimize plant growth and yield, while minimizing resource use and environmental impact.



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2. Experimental Study on Industrial Sludge and Coconut Coir in Strengthening of Red Bricks

Author Details: Pranesh C, Arunramanan V & Guna T
Velalar College of Engineering and Technology, Erode, India

Takeaway points

An experimental study on industrial sludge and coconut coir in the strengthening of red bricks could yield a range of observations, including:

- The physical and mechanical properties of the bricks can be improved by incorporating industrial sludge and coconut coir in varying proportions.
- The optimal mix ratio of industrial sludge and coconut coir can depend on factors such as the type and quality of the materials, the production process, and the desired properties of the bricks.
- The inclusion of industrial sludge and coconut coir can increase the water absorption of the bricks, which may affect their performance in certain applications.
- The strength and durability of the bricks can be influenced by the manufacturing process, including the mixing, molding, and drying conditions.
- The compressive strength and density of the bricks can be affected by the type and quality of the red clay used.
- The use of industrial sludge and coconut coir in the production of red bricks can provide a sustainable solution for the reuse of industrial waste and contribute to the development of eco-friendly building materials.

Overall, an experimental study on industrial sludge and coconut coir in the strengthening of red bricks can provide valuable observations on the properties and behavior of different materials and their interactions in building materials. These observations can contribute to the development of more sustainable and efficient building practices.

3. Blockchain Based Intrusion Detection in IOT Networks

Author Details: Deepak S
Anjalai Ammal Mahalingam Engineering College, Thiruvarur.

Takeaway points

The use of blockchain technology in intrusion detection systems (IDS) for Internet of Things (IoT) networks can bring about several benefits. Here are some observations from an article on blockchain-based intrusion detection in IoT networks:

- Blockchain technology can enhance the security of IoT networks by providing a decentralized and tamper-proof database for storing security-related data.
- The use of blockchain can prevent the manipulation of data by attackers, as any alteration of data would require consensus from the network participants.
- Blockchain-based IDS can provide more accurate and timely detection of intrusions by enabling real-time sharing of threat intelligence among network nodes.



- The decentralized nature of blockchain can reduce the reliance on centralized security authorities, which can be vulnerable to attacks and single points of failure.
- The use of smart contracts in blockchain-based IDS can automate the response to detected threats, increasing the speed and efficiency of incident response.
- The integration of blockchain-based IDS with other security technologies, such as machine learning and artificial intelligence, can enhance the accuracy and effectiveness of intrusion detection.

For improving intrusion detection in IoT using blockchain technology requires addressing technical, privacy, regulatory, and legal challenges. Developing standardized protocols, enhancing scalability, improving data privacy, developing smart contract templates, integrating with other security technologies, and addressing regulatory and legal challenges can help accelerate the adoption and effectiveness of blockchain-based IDS for IoT networks.

4. IOT Devices Proximity Authentication and Surveillance in Industrial Network

Author Details: Manoharan B
Anjalai Ammal Mahalingam Engineering College, Thiruvarur.

CSE

Takeaway points

Here are some key learnings from proximity authentication and surveillance in industrial networks using IoT devices:

- The proximity authentication and surveillance using IoT devices can improve security and safety in industrial settings by providing real-time monitoring, reducing the risk of unauthorized access and security breaches, and enabling timely detection and response to safety hazards and potential accidents.
- The use of IoT devices for proximity authentication and surveillance can reduce the need for physical security personnel and equipment, resulting in cost savings for industrial organizations.
- The data generated by IoT devices can be analyzed to identify trends, optimize operations, and improve decision-making in industrial settings.
- The integration of IoT devices with existing industrial systems and networks can be challenging, and ensuring interoperability is crucial for successful deployment.
- The security of IoT devices and networks is a critical concern, and appropriate measures must be taken to ensure the confidentiality, integrity, and availability of data.
- The use of IoT devices for surveillance raises concerns about data privacy, and measures must be taken to ensure compliance with relevant regulations and standards.

Overall, the use of IoT devices for proximity authentication and surveillance in industrial networks has the potential to bring about significant benefits, but also requires careful consideration of technical, security, and privacy challenges.



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D.S.K

5. Neural Network Based Intrusion Detection System in IOT Environment

Author Details: Surya Kumar S
Anjalai Ammal Mahalingam Engineering College, Thiruvarur.

ECE

Takeaway points

Here are some key takeaways from a neural network-based intrusion detection system (IDS) in an IoT environment:

- Using neural network-based IDS can improve the accuracy of intrusion detection in IoT environments, reducing the risk of false positives and false negatives.
- Neural network-based IDS can provide real-time monitoring of network traffic, enabling timely detection and response to security threats.
- Neural network-based IDS can automate the intrusion detection process, reducing the need for human intervention and freeing up security personnel for other tasks.
- Neural networks can be trained on large datasets and are scalable, making them suitable for deployment in IoT environments with a large number of devices and data streams.
- Neural networks can adapt to changes in the network environment and can learn from new data, making them well-suited for dynamic IoT environments.
- Neural network-based IDS can detect advanced and sophisticated security threats that may be missed by traditional signature-based IDS.
- There are challenges associated with deploying neural network-based IDS in an IoT environment, such as addressing data privacy and network security concerns, and ensuring explainability of the decision-making process of the neural network.

Overall, neural network-based IDS can bring about significant improvements in the accuracy, scalability, and efficiency of intrusion detection in an IoT environment. However, it is important to carefully consider potential challenges and ensure appropriate measures are taken to address them.

6. Experimental Study on Partial Replacement of Coarse Aggregate by using Coconut Shell and Cement with Flyash

CE

Author Details: Pranesh C, Sowmiya R, Vidhya Bharathi S
Velalar College of Engineering and Technology, Erode.

Takeaway points

Here are some key learnings from the experimental study on partial replacement of coarse aggregate by using coconut shell and cement with fly ash:



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- Encouraging students to work on rural issues as a part of UG and PG projects.
- Adoption of a cluster-based approach for village development.
- State-level planning for rural development by incorporating all the UBA institutes.
- State Government organizations.
- Development of an action plan for the adopted village in collaboration with Central and State Government by higher education institutions.
- Formation of a committee that involves various stakeholders in identifying issues

Follow up plans

- Machine learning/Deep learning technology for agriculture crop yield prediction should be done in detail. Also it could be extended to other activities of agriculture.
- Proposals or Projects related to authentication and security of information to be transferred through IoT module is to be ensured.
- Block chain technology could be explored in a wider way for doing student projects.
- Optimized water supply is essential besides vast agricultural land.

Suggestions

- Overall, the study demonstrates the potential of using alternative materials such as coconut shell and fly ash as partial replacement in concrete production to improve its sustainability and reduce its environmental impact.

- The combination of coconut shell and fly ash as partial replacement can produce concrete with enhanced mechanical properties and improved sustainability, as well as reduced production costs.
- The optimal combination of coconut shell and fly ash replacement can vary depending on the specific requirements and intended application of the concrete.
- The use of locally sourced and waste materials can contribute to sustainable and environmentally friendly concrete production.
- The study as partial replacement of fly ash as partial replacement of the concrete to the environment, which can contribute to the conservation of natural resources and reduce the demand for cement and its associated carbon emissions.
- Fly ash can be used as a partial replacement for cement in concrete production, which can reduce the production, which can contribute to the conservation of natural resources and reduce waste.
- Coconut shell can be used as a partial replacement for coarse aggregate in concrete production, which can contribute to the conservation of natural resources and reduce waste.



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NATIONAL CONFERENCE AND EXHIBITION ON RURAL INNOVATIONS

March 24 - 25, 2023

TECHNICAL SESSION REPORT

SESSION IV

Chairperson : **Mrs. Uma Chandrika**, Assistant Director (Chemical), MSME Madurai

Co-Chair : **Dr.C.Sujatha**, Head/CSE, SSM Institute of Engineering and Technology, Dindigul.

1. Crop Yield Prediction Using IOT

Author Details: Dr. P. T. Kalaivannia, Gowsalya. L , Jeevithra. J , Megavarshini. G , Monisha. N, Megavarshini G , Vivekanandha College Of Engineering for Women (Autonomous)

Key points taken

This paper proposes an IoT-based crop yield prediction system using Machine Learning techniques. Various factors like humidity, temperature, soil etc. are under monitor condition and that provides a crystal-clear real-time observation. Implementing Machine learning algorithms in agriculture is used to predict the productivity and quality of the crops in the agriculture sector. Here is some key learning from the topic:

- Machine learning algorithms like Bagged Tree Classifier, Decision Tree and Naïve Bayesian are used to predict the yield of crops based on the parameters like crop yield, area, seasons, humidity, temperature, and pH. The system includes a network of sensors to collect real-time data such as soil moisture, temperature, humidity, and sunlight, which are then fed to the Machine Learning model for crop yield prediction.
- To enhance the yield, this system also includes crop recommendation, pesticide recommendation and weather forecasting. The proposed system seems to improve crop yield and reduce the risk of crop failure, thereby increasing the profitability of farmers.
- Monitoring system is implemented first using IoT and then Prediction system using ML is implemented next in this project.

On the whole, crop yield prediction in Agriculture could be enhanced using the integrated technology of IOT and Machine learning. This method offers better accuracy at a lower computational cost.

Suggestions from Expert

The experts suggested this work to be analyzed in detail and asked to attend in National and International Conferences .This would take this work to the next level and apply for Government Proposals.



Dr. D. SENTHIL KUMAR
HOD, CSE

2. Design and Performance Analysis of Ultraviolet Sterilizer Using XT546 Timer

Author Details : G. Rajeswari, A. Rishita, J. Yeshwanthini, K. Sathiya, N. Mounika
Vivekanandha College OfEngineering for Women (Autonomous)

Key points taken

This topic provides important insights into the usage of UV-C , the best disinfectant used for purifying water, and air, sterilizing vegetables and surgical equipment and it suppresses the immunity of pathogens. Here are some key learning from the topic:

- Two 275nm UV-C LED arrays, each of 14.4watt power is placed inside a stainless-steel box and an XT546 Timer with a dual 3-digit, 7-segment display is used for displaying the time.
- UV-C LED is chosen over UV incandescent lamps because of the absence of mercury in UV-C LED. The UV Sterilizer is housed in a stainless-steel box, with two 14.4watt power UV-C LED arrays. Stainless steel is used for better reflection. The switch is placed on the front side wall of box, so that the switch will be operating in ON and OFF condition of the LED.
- To protect the human-beings from accidental UV exposure while opening the lid during its operation, a safety switch is incorporated here to prompt the microcontroller in the timer to cut off the radiation.

Suggestions from Experts

- Cost of product should be considered since the product should reach the village people at low cost.
- Also awareness should be created regarding the harmful effects of UV rays.

3. Tillage Savior

Author Details : Boomika M
Vivekanandha College of Engineering for Women (Autonomous)

Multi-robot systems and collaborative approaches are discussed in this paper. Especially, swarm robotics features are discussed which gives an advance method with minimum man power and labour. Some of the key points are,

Key points taken

- The main motive of this project is to make awareness that “EVERYONE CAN DO FARMING”, to make agriculture more comfortable to everyone.




Dr. D. SENTHIL KUMARAN, M.E., Ph.D., (NUS)
Principal

- Agribot can be controlled using a technology named LORA (Long Range) in IOT. LORA is used to transmit data to a long range without any loss.
- LoRa is suitable for rural use due to its long range. In urban areas, where signals have to penetrate floors and walls, LoRa is suitable. Among its application areas are smart cities, smart homes and buildings, smart agriculture, smart metering, and smart supply chain and logistics.
- Since LoRa is bidirectional, applications can benefit from **command-and-control** functionality. Uplink can be used for continuous monitoring and downlink can be used for controlling the device.
- LoRa when combined with Wi-Fi can optimize a number of IoT use cases. For example, asset tracking, location services and on-demand streaming can be improved.

Overall,

LoRa is a wireless modulation technique from Chirp Spread Spectrum (CSS) technology. It encodes information on radio waves using chirp pulses - similar to the way dolphins and bats communicate. LoRa modulated transmission is robust against disturbances and can be received across great distances.

All such features make LoRa attractive for long range communication and for agriculture purposes.

4. A Study of Milk and Ghee Adulteration and Method of Detection of Various Chemicals Adulterants Qualitatively

Author Details : **Sakthivel K**

SSM College Of Arts and Science

This work gives a comprehensive review of the common Adulterant added in milk and ghee along with the various methods of detection quantitatively. Adulteration of ghee is more common malpractice in India because it will fetch more profit to the traders and also result into increased supply and it can start at the stage of milk itself. This work gives a clear view of the quality of milk and ghee. Some of the key points are

Key points taken

Overview of Food law are discussed.

- Food law shall be based on risk analysis where it is possible.
- Precautionary principle: Where after risk and uncertainty persists, provisional risk management measures may be taken to ensure a high level of health protection, until more scientific information is available.
- Consumers' interests will be protected.



Also discussed about the Material and methods of food collection and detection of adulterants in food items.

Overall, this analysis is carried out to bring awareness to the public about the malpractices in milk production and their health hazards. The ghee adulteration, is a serious problem in recent times, that doesn't even spare the food of infants. A report states that 80 percent of premature deaths are caused by contaminated water and food. Governments should take strict actions against the ones who practice this inhuman thing. The lack of awareness of this adulteration among people is the chance for a person who does adulteration, so the public should also be aware of this type of Malpractice.

5 . Smart Water Management System in Urban Areas Using Lora Technology

Author Details : R.Sneka ,M.Shobana

SSM Institute of Engineering & Technology

These work insights into usage of extraordinary performance of LoRa (Long Range) Technology for effective water management system in urban areas. From the discussion , it is understood that it enables the central water systems to manage the resources through a smart and automated system. The residential areas and institutions will be installed with sensors and connected through LoRa based home gateways or public LoRa WAN network. Some of the key points are

Key points taken

The water management system consists of a control unit, a LoRa gateway, a cloud-based server, and a mobile application. This system can be used in urban areas where the smart water meter can be installed in residential buildings.

Here the cloud-based server acts as a centralized server that will be accessible by the central authorities only. The server then communicates with the mobile application to notify the user based on the water usage he/she has used in his/her house.

Here only 1 node is chosen and implemented in the system. Hence, the data of only 1 house is considered. A house can act as a node. The gateway comprises a Raspberry pi model 2B, which is configured to use SPI communication protocol to communicate with the HPD13A LoRa module which is based on Semtech's SX1276 transceiver; the gateway is being provided with internet connection via Ethernet.

Overall, the received signal strength indicator (RSSI) value tested on the LoRa modules were found to be dependent on the antenna parameters such as distance between transmitter-receiver, obstructions encountered if any, and transmitter power. The gateway requires stable internet connectivity for reliable data delivery to the TTN server. The TTN server works in sync with the Tago.IO server to store the received sensor data that can be analyzed in detail, and further insights can be sent to the end user depending upon the set program conditions and thresholds. The LoRa module successfully transmits data to the gateway in its line of sight.



6 . Survey on Health Care in RuralIndia

Author Details : Revathy.S , RuthraSivaguru.K

SSM Institute of Engineering & Technology

These paper insights into declaration of primary health care in rural which is a vital need and basic requirement as well. It is also recommended to know the actual requirement of the health society in both rural and city sides through statistical study. Both central and state government should reduce the gap between the actual number of available health centers and required number of health centers in country. Implementing heath centers for mental illness also takes same weightage as the physical one. Some of the key points are

Key points taken

Factors affecting the Physical health and Mental health are discussed.

Also the National Institute of Health shows that yoga supports stress management, mental health, healthy eating, mindfulness, weight loss and quality sleep. There are many types of yoga postures and every sign defines a specific healing process.

Also it is discussed that even though these health things are managed by many organizations worldwide, we have the serious responsibility of taking care of ourselves and the people we have around. Each and every life in this world is very important and only a healthy environment of today can create a healthy tomorrow.

Overall, the Primary Health Care was envisaged to provide an integrated curative and preventive health care to the rural population with emphasis on preventive and promotive aspects of health care.


Faculty Incharge

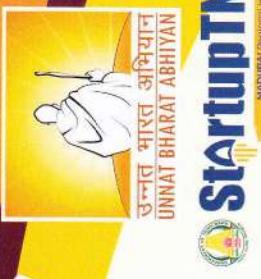

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Certificate

is to certify that Prof./Dr.Senthil Kumaran, R., Department of ECE, SSM Institute of Engineering and Technology presented a paper on *Automatic Solar Power Monitoring System* in the NATIONAL CONFERENCE AND EXHIBITION

RURAL INNOVATIONS (NCERI-23) Organized by Unnat Bharat Abhiyan SSM Institute of Engineering and Technology, Dindigul on 24th and 25th March 2023.



Dr. K. Vinoth Kumar
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SSMIET/216/March/2023

Date: 25.03.2023

திண்டுக்கல், SSM பொறியியல் கல்லூரியில் உன்னத் பாரத் அபியான் சார்பில் SSM கல்லூரியின் முதல்வர் முனைவர் D. செந்தில் குமரன் தலைமையில் தேசிய அளவிலான கருத்தரங்கம் மற்றும் ஊரக வளர்ச்சிக்கான கண்காட்சி மார்ச் 24 மற்றும் 25 ஆகிய தேதிகளில் நடைபெற்றது. இவ்விழாவில் சிறப்பு விருந்தினர்களாக Maxelarator Foundation, மதுரை நிறுவனர் திரு. நானுசாமி மற்றும் திருமதி நவீனா நானுசாமி, UBA மண்டல ஒருங்கிணைப்பாளர் முனைவர் K. ரவிச்சந்திரன் கலந்து கொண்டனர். விழாவில், கிராமப்புற ஊரக வளர்ச்சித் திட்டங்கள் குறித்து பல்வேறு தலைப்புகளில் கருத்தரங்க விவாதம் மற்றும் கண்காட்சி நடைபெற்றது. இவ்விழாவில் பல்வேறு கிராமப்புற மக்கள் மற்றும் கல்லூரி மாணவர்கள் பங்கேற்று பயன்பெற்றனர். MSME - DFO மதுரையின் உதவி இயக்குநர், உமா சந்திரிக்கா அவர்கள் கருத்தரங்கம் நிறைவு விழாவில் பங்கேற்று சிறப்புறை ஆற்றினார். நிகழ்ச்சி ஏற்பாட்டினை பேராசிரியர்கள் K.வினோத்குமார், R.செந்தில்குமார் மற்றும் C.சிலம்பரசன் ஆகியோர் செய்தனர்.

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UNNAT BHARAT ABHIYAN ACTIVITIES

| S No. | Academic Year | Date | Name of the activity | Document Link |
|-------|---------------|----------------------------|---|----------------------|
| 1 | 2019-20 | 09.12.2019 | Village Representative Meeting | View |
| 2 | | 24.01.2020 & 13.02.2020 | Village Survey and Household Survey | View |
| 3 | 2021-22 | 18.09.2021 | Awareness Program on "Azadi ka Mahotsav" for School Childrens | View |
| 4 | | 12.02.2022 | Tree Plantation at Nachikonam patti Village | View |
| 5 | | 25.04.2022 - 30.04.2022 | Field Visit to Srisakthi Trust at Ayyampalayam | View |
| 6 | | 28.07.2022 | Tree Plantation at Kaaladi patti Village | View |
| 7 | | 07.02.2023 | Visit Millet Fair cum Exhibition at TNAU-Madurai | View |
| 8 | 2022 - 23 | 17.03.2023 - 19.03.2023 | Village Survey and Household Survey | View |
| 9 | | 24.03.23 & 25.03.2023 | National Conference and Exhibition on Rural Innovations | View |



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