



SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY

(DEEMED TO BE UNIVERSITY)

Accredited "A" Grade by NAAC | 12B Status by UGC | Approved by AICTE

www.sathyabama.ac.in

3.6.1 Extension activities in the neighbourhood community in terms of impact and sensitising students to social issues and holistic development

Department of Physics, Sathyabama Institute of Science and Technology organized an outreach program at Govt. High School, Asthinapur to motivate students to pursue higher studies in science and technology.

The poster is for a Women's Day outreach program. It features a pink background with decorative elements like clouds and colorful geometric shapes at the bottom. The text is organized into sections: EVENTS, OBJECTIVE OF OUTREACH ACTIVITY, and a list of participants and convenors. The Sathyabama logo and name are prominently displayed at the top right.

EVENTS

- QUIZ
- DEBATE
- SPORTS
- MATH
- HEALTH AWARENESS
- MENTAL AWARENESS
- FINANCIAL AWARENESS

HAPPY Women's DAY

OBJECTIVE OF OUTREACH ACTIVITY

- BRINGING WOMEN INTO TECHNOLOGY RESULTS IN MORE CREATIVE SOLUTIONS AND GREATER POTENTIAL FOR INNOVATIONS THAT MEET WOMEN'S NEEDS AND PROMOTE GENDER EQUALITY.
- HEALTH COMMUNICATION AND ENVIRONMENTAL HEALTH LITERACY.
- TRAINING AND EDUCATING THE NEXT GENERATION AND CREATING A DIVERSE AND MULTICULTURAL WORKFORCE.

SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)
ACCREDITED WITH GRADE "A" BY NAAC | 12B STATUS BY UGC | APPROVED BY AICTE

WOW - WOMEN ON WELLNESS
OUTREACH PROGRAM ON
WOMEN'S AND CHILD HEALTH AWARENESS
AT
GOVERNMENT HIGH SCHOOL - KUMIZHI
ORGANIZED BY
DEPARTMENT OF CHEMICAL ENGINEERING
SCHOOL OF BIO AND CHEMICAL
7th MARCH 2023

PARTONS

DR. MARIAJETERIA JOHNSON, CHANCELLOR
DR. MARIE JOHNSON, PRESIDENT
MS. MARIA BERNADETTE TAMARAASI, VICE PRESIDENT
MR. J. ARUL SELVAN, VICE PRESIDENT
MS. MARIA CATHERINE JAYAPRIYA, VICE PRESIDENT

CONVENORS

DR. TSASPRAGA - VICE CHANCELLOR
DR. Y. GANESALATHA - DEAN, HIGHER STUDIES
DR. EBATHISH - HEAD, CHEMICAL

Department of Physics, Sathyabama Institute of Science and Technology organized an outreach program at Govt. High School, Kumizhi to spread awareness about women and child health wellness.



SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)
Accredited with Grade "A" by NAAC | 12 B Status by UGC | Approved by AICTE

School of Science and Humanities
Department of Physics
Organizes
Seminar on
Impact of Internship for Professional Development

Date: 14.02.2023

Time: 10.00 am to 11.00 am

Venue: Block : 07

Room No : 40



Dr. G. GOPIKA
Scientist-C
Centre for Nanoscience and Nanotechnology
International Research Center
Sathyabama Institute of Science and Technology
Chennai-119



Convenors:
Dr. Rekha Chakaravarthi,
Dean-Arts and Science
Dr. S. Ravichandiran,
Head-Department of Physics

Co-Convenors:
Dr. K. Parasuraman
Dr. S. Anandhi
Dr. J. Anitalett
Department of Physics

CDC club of Sathyabama Institute of Science and Technology conducted outreach program on 14th March, 2023. Students distributed Health and Hygiene kits under the implementation drive of "Madugai -The strength" project directed to boost the health of higher secondary girl students. This program is conducted in the Sathyabama Adopted School , GHSS Semmencherry.



Department of Chemical Engineering of School of Bio and Chemical Engineering visited the Government High School, Kumizhi on 7.3.2023 to conduct an outreach programme on women and child health awareness as part of International Women's Day celebration. Girl students of Department of Chemical Engineering addressed the school students and clarified their queries regarding menstrual hygiene and delivered a talk on women empowerment highlighting the government schemes offered for girl children.



The Department of Chemistry has conducted a one-day academic outreach program in one of our adopted schools, “Thanthai Periyar Government Higher Secondary School”, Puzhuthivakkam on June 30th 2023 from 10.00 am to 2.00 pm. Around 75 school students of Class X from the school have actively participated in the event. The program was coordinated by Dr.V.Kavitha, Professor, Department of Chemistry and Dr. J. Karthikeyan, Professor and Head, Department of chemistry along with 5 M.Sc., chemistry students.



On 22nd October 2022, the Department of Psychology offers an Outreach Program specially dedicated to the staff of Sathyabama. The staff was presented with a small token of love and gratitude as an appreciation for their efforts and services. They also received a pamphlet containing information on 'How to overcome stress & How to manage time effectively'.



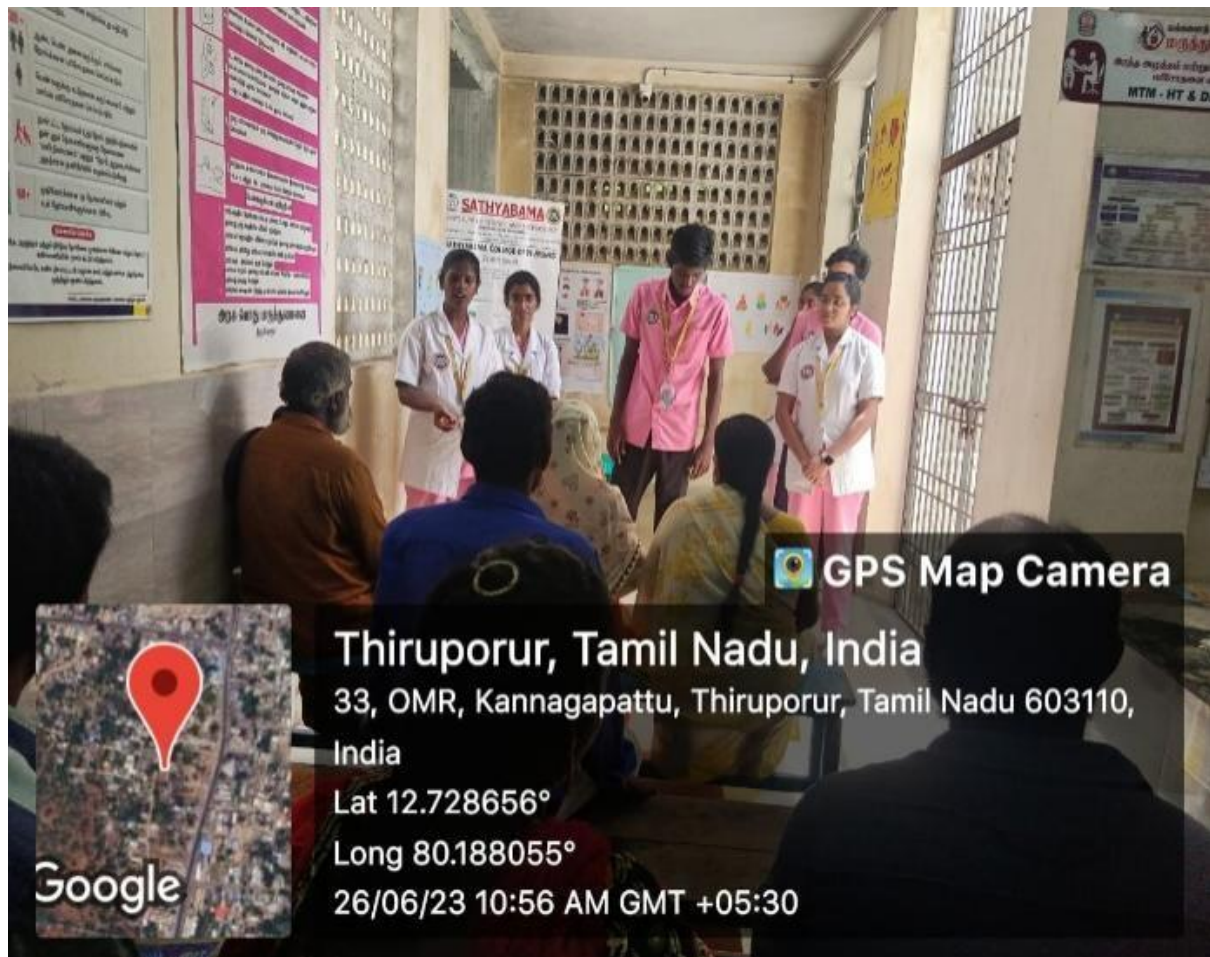
Wall Painting Workshop (Out reach activity) :Our Visual communication department Staff and Students as an outreach activity had done murals on the Metropolitan Transport Corporation Regional Workshop Walls located in Tondiarpet. This wall painting at MTC is to enhance the workshop ambience and relax the employees from stress and work pressure.



Sathyabama college of Nursing had organized a CNE- Outreach Programme- Nutrition demonstration on pregnancy diet, health talk on antenatal exercise, Antenatal Care and anaemia and also organised role play on personal hygiene to commemorate World Population day 2023 on the theme “Towards a resilient future for all- harnessing opportunities and ensuring rights and choices for all” from 10am to 11am at pallavakkam PHC. The participants of the programme was 70 patients attending Outpatient department at pallavakkam PHC along with 28 B.Sc (N) IV year nursing students, the patients observed the health talk, gained knowledge and developed awareness regarding over population and its effects. The session ends by receiving feedback from the outpatients and from the students, overall the programme was excellent and useful.



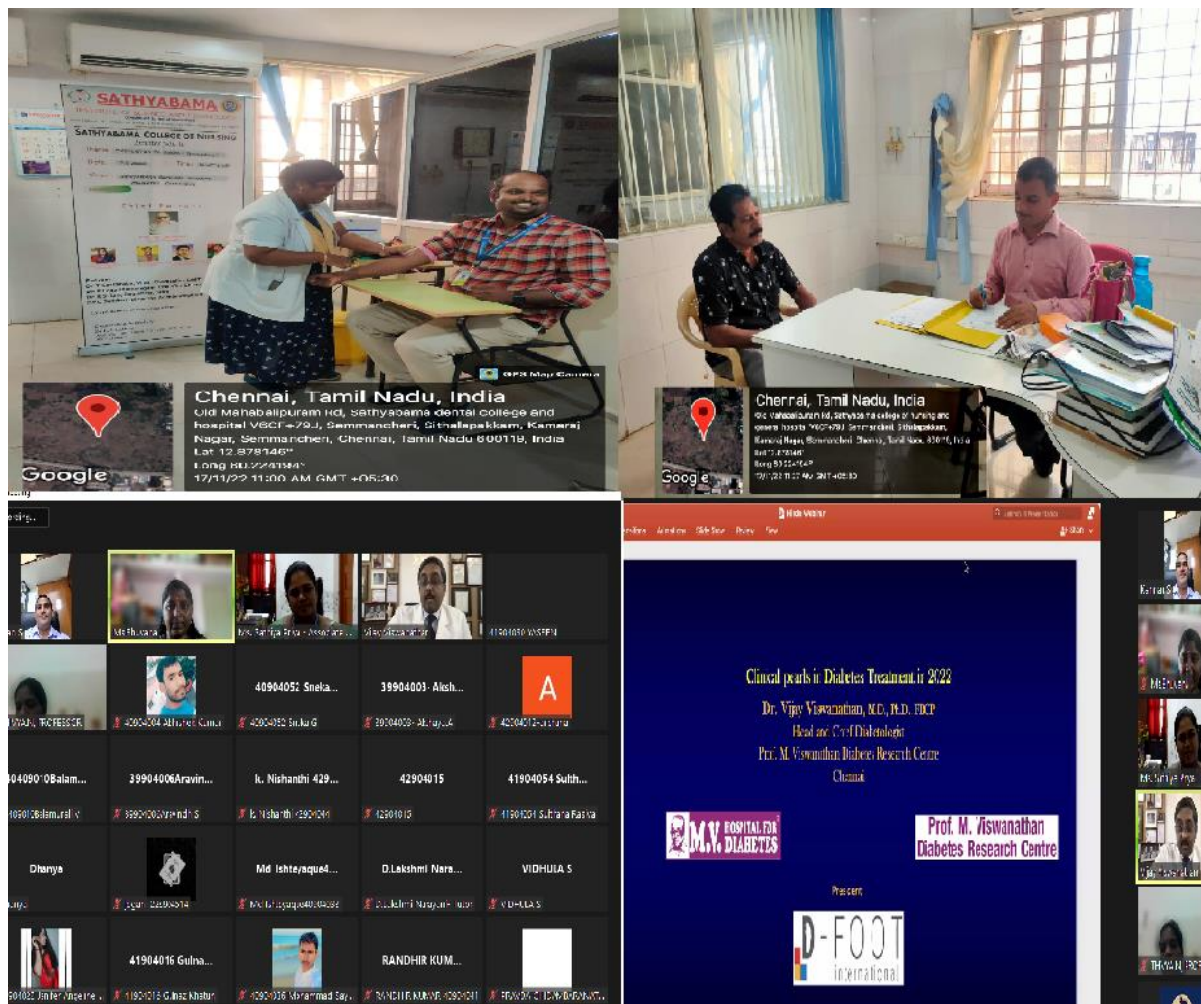
Sathyabama Institute of Science & Technology, IQAC in collaboration with Sathyabama College of Nursing organized a Seminar on 21.07.2023 at 11.15 AM to 12.15 PM at Dental Auditorium SIST, on the theme “Personality Development & Menstrual Hygiene”. Menstrual kits had been distributed to the registered participants. Nearly 211 participants (120- Nursing and 6 – Physiotherapy and 80 – dental students) and 5 faculty joined the program. The Vote of Thanks is delivered by Ms Trupti Rekha Pradhan. Program was successful.



Lamp lighting ceremony of the 4th batch of BSc (Nursing) students took place on 2nd December 2022, at Dental Auditorium. Mrs.Gowri Mohan, Maternal and Child Health Officer, Greater Chennai Corporation, was invited as the Chief Guest of this ceremony, this ceremony was presided over by Mr.Arulselvan Vice president and Ms.Maria Catherine Jayapriya, Vice president of Sathyabama Institute of Science and Technology.



In commemoration of World Aids Day, we at Sathyabama College of Nursing organized an outreach rally on the theme “EQUALIZE”. It is a wakeup call for all of us to focus on the practical solutions to alleviate inequality and put an end to life threatening disease ‘AIDS’. Mrs. Suganth, Staff Nurse & Mrs. Shanthi, Sector Health Nurse from Semmanchery primary health center hoist the green flag to start the outreach Rally.



Sathyabama college of Nursing in coordination with Sathyabama General Hospital organised a Diabetes week celebration from 14.11.2022 to 18.11.2022 commemorating the World Diabetes Day 2022 on the Theme: “Education to protect tomorrow”. Dr. VIJAY VISWANATHAN M.D., Ph.D., FRCP, M.V. Hospital for Diabetes & Prof. M. Viswanathan Diabetes Research Centre, Royapuram Chennai, was the eminent speaker gave an excellent speech on the theme of diabetes day

Eco club of Sathyabama Institute of Science and Technology conducted tree plantation on the eve of Women's Day on 08.03.2023. Vice President Ms.Maria Bernadette Tamilarasi has actively participated in the tree plantation program and extended best wishes to students.



Chess club of Sathyabama Institute of Science and Technology conducted an orientation session on 14th February, 2023. The orientation session is conducted in peer to peer learning mode by the office bearers of the club to the student participants. The international rules of playing chess were discussed using visual aids to the participants.



Eco club of Sathyabama Institute of Science and Technology has conducted a webinar on "Air pollution and its impact on Life" on 26th October, 2022. Dr.Sreekala K Nair, Director , Nature Science Foundation enlightened student participants on the means of containing the air pollution.

Eco club of Sathyabama Institute of Science and Technology conducted tree plantation on the eve of Women's Day on 08.03.2023. Vice President Ms.Maria Bernadette Tamilarasi has actively participated in the tree plantation program and extended best wishes to students.



Chess club of Sathyabama Institute of Science and Technology conducted an orientation session on 14th February, 2023. The orientation session is conducted in peer to peer learning mode by the office bearers of the club to the student participants. The international rules of playing chess were discussed using visual aids to the participants.



Eco club of Sathyabama Institute of Science and Technology has conducted a webinar on "Air pollution and its impact on Life" on 26th October, 2022. Dr.Sreekala K Nair, Director , Nature Science Foundation enlightened student participants on the means of containing the air pollution.

"International Eco Club Student Chapter " inauguration took place in Sathyabama Institute of Science and Technology on 11th June, 2022 in association with the Nature Science Foundation Dr.P.V.Sreenivasan, Director , Nature Science Foundation and Dr.Dhanalakshmi, Program Officer , Nature Science Foundation were felicitated by the Vice Chancellor of the institution and the Student Chapter Establishment Certificate was presented by the Nature Science Foundation to the Institution in this function. Eco Club students and co-ordinators participated with enthusiasm in this inaugural function.



Eco Club of Sathyabama Institute of Science and Technology conducted "ECO-ENZYME" - An environmental awareness session on 7th January, 2022. Ms.Shawani Shome shared her learning

"International Eco Club Student Chapter " inauguration took place in Sathyabama Institute of Science and Technology on 11th June, 2022 in association with the Nature Science Foundation Dr.P.V.Sreenivasan, Director , Nature Science Foundation and Dr.Dhanalakshmi, Program Officer , Nature Science Foundation were felicitated by the Vice Chancellor of the institution and the Student Chapter Establishment Certificate was presented by the Nature Science Foundation to the Institution in this function. Eco Club students and co-ordinators participated with enthusiasm in this inaugural function.





SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)

www.sathyabama.ac.in



STUDENT DEVELOPMENT CELL PRESENTS

COMMUNITY DEVELOPMENT CLUB ORGANIZED
AND
AICTE SPICES INNOVATION CLUB OF SATHYABAMA

OUTREACH PROGRAM

(MADHUGAI PROJECT IMPLEMENTATION CONNECTING EDUCATION AND INNOVATION)

STAFF COORDINATORS

Mr. M. D. Kamalesh, Assoc.Professor, Dept.of CSE

Dr. Muttiah, Assoc.Professor, Dept.of ECE

Dr. A. Sivasangari, Professor, Dept.of IT

Mrs. Deepa, Asst.Professor, Dept.of CSE



LOCATION

Government High school,
Nallambalkam

DATE AND TIME

23 June 2023 11.00 AM

ABSTRACT

The event was graced by the presence of students, teachers and invitees. The event was organized with the intention of spreading awareness of hygiene. Since the club's motive is service to the community, it goes together with raising awareness. The content provided by the guest speaker was designed to be informative and entertaining, which can be described as an EDUTAINIG event. It was an incredibly practical and engaging presentation as the speaker captivated the entire audience's attention throughout the event and kept them thoroughly entertained. The event ran seamlessly thanks to the meticulous planning carried out by the organizing committee and the coordinator, ensuring a smooth experience overall. The participants thoroughly enjoyed and cherished their experience.

2.2 PHOTO GALLERY

SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)
Accredited "A++" Grade by NAAC | 12B Status by UGC | Approved by AICTE
www.sathyabama.ac.in

NEA | NIRF | STARS | G-VALUE | DIAMOND

**STUDENT DEVELOPMENT CELL
AICTE SPICES INNOVATION CLUB
AND
COMMUNITY DEVELOPMENT CLUB
ORGANISES**

OUTREACH PROGRAM
MADUGAI PROJECT IMPLEMENTATION
CONNECTING EDUCATION AND INNOVATION

June 23, 2023
11:00 AM
**Government High School,
Nallambalkam**

FACULTY CO-ORDINATORS
Dr.A.Sivasangari, Professor, Dept. of IT
Mrs.Deepa, Asst. Professor, Dept. of CSE
Mr.M.D.Hamalesh, Assoc. Professor, Dept. of CSE
Dr.Muttiah, Assoc. Professor, Dept. of ECE

STUDENT CO-ORDINATORS
Pethange Pavan Kumar, IV Year, CSE
Gouthami Vinod Hatkar, IV Year, CSE
Dendukuri Harshitha, IV Year, ECE
Ramaraja R, IV Year, Chemical
Mathangi B, IV Year, Biomedical
SR Arvind, IV Year, Mechatronics





SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY

OUTREACH ACTIVITIES



**AGRI INNOVATION HUB FOR HOLISTIC DEVELOPMENT OF
SCHEDULED TRIBE POPULATION IN ANAICUT BLOCK IN JAWADU
HILLS, VELLORE DISTRICT, TAMIL NADU STATE.**

Supported by
Department of Science and Technology – New Delhi

Objectives

- To improve farm productivity and farm income using sustainable agricultural practices
- To enhance the market value of their produces through B to C model using digital marketing and E-commerce platform.
- Skill development and training programs for better employability.
- To create entrepreneurship opportunities to enhance livelihood.
- To provide better health care ecosystem and enable people who are deprived of basic health care facility.

MR. KUMARA VEL PANDIAN IAS AT VELLORE DISTRICT INAUGURATING THE HUB



Fig: 1 *Decalepis hamiltonii* was planted in Paallampatu village



Fig; 2 Seed kit and vermicompost distributed to farmers

Millet crop recommendations for improving productivity, selection of seeds for cultivation, marketing activities involved in DHAN foundation for procurement of small millets through FPOs were discussed.



Fig; 3 Discussion held with DHAN foundation Members

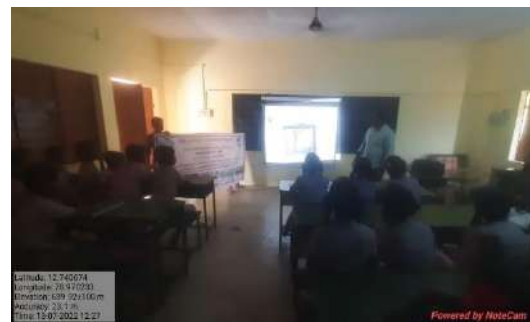


Fig 4: Destoner & Dehusker

millet processing unit and its commercial advantages, honeybee unit and its processing, and explained the importance of medicinal plants cultivation and its uses.



Awareness program on of handwash and basic fundamental of computer science to the school students and distributed the compliments like notebook and pen for encouraging the 50 students.



Awareness to the farmers were gave about bio-fertilizers (Azospirillum) to enrich the soil microbe's activity and increases the crop yield & better growth of little millet cultivation. Then we distributed the bio-fertilizers to 20 farmers get benefited.



SCIENCE TECHNOLOGY AND INNOVATION HUB IN KATTUMANNARKOIL, C,D BLOCK, CUDDALORE DISTRICT, TAMILNADU

Funding Agency: Department of Science and Technology, Govt. of India, New Delhi

Project Duration : April, 2022 – March 2025 Fund sanctioned : Rs. 2.36 Crores (0.3 Million Dollars)

INTERACTIONS FOR THE STI HUB INVOLVING AADHANUR, EACHAMPOONDI AND PERIYAKOTTAGAM VILLAGES.

IMPLEMENTATION OF THE PROJECT VERTICALS :

- i) Hydroponics framework;
- ii) Waste Valorisation (Biodiesel, Biochar, Compost, Bio soaps, Bioglycerine);
- iii) Flyash Concrete and Development of Polyurethane Coatings.

Deliverables

- STI hub for SC established for livelihood generation to supplement the existing low-income earning pattern of SC women target beneficiaries of identified villages in Kattumannarkoil .
- Research extended through the hub for assessment of environmental and economic benefits
- Trained beneficiaries eligible for establishment of individual or collaborative sustainable microenterprises/start-ups.
- Well planned, integrated cradle to grave business model for collection, processing of waste to value added products, that give sustainable employment to the village inmates.
- Establish a simplified hydroponics framework as a supplementary farming technique for green cultivation, Medicinal, Herbal Plant extracts at Kattumannarkoil
- Establish a composting unit and train beneficiaries.

Expected benefits to the target groups/population

- Employability generated near household.
- Increase in average monthly income of the families.
- Awareness about waste and their role in keeping the village clean and hygienic.
- Women empowerment and status upliftment.
- Provisions of better food, healthier environment and dignified job for the SC community of the village at large.
- An eye-opening motherhood for the future generation of the village who will take every step of their mothers involved in the hub as an inspirational one taken for their flourishing future.



BLOOD DONATION CAMP



SERVICE IN THE NEARBY COMMUNITY AND VILLAGES

CLEANING THE PARK IN THE CAMP SITE DURING SP.CAMP IN CHEMMENCHERY



LAYING THE ROAD DURING SP.CAMP IN CHEMMENCHERY FOR A SCHOOL



VILLAGE CLEANING



SCHOOL ADOPTION



MEDICAL AND DENTAL CAMPS



UNNAT BHARAT ABHIYAN SIST 2.0

Vision

Unnat Bharat Abhiyan is inspired by the vision of transformational change in rural development processes by leveraging knowledge institutions to help build the architecture of an Inclusive India.

Mission

The Mission of Unnat Bharat Abhiyan is to enable higher educational institutions to work with the people of rural India in identifying development challenges and evolving appropriate solutions for accelerating sustainable growth. It also aims to create a virtuous cycle between society and an inclusive academic system by providing knowledge and practices for emerging professions and to upgrade the capabilities of both the public and the private sectors in responding to the development needs of rural India



SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)
Accredited with Grade "A" by NAAC

उन्नत भारत अभियान
UNNAT BHARAT ABHIYAN
भक्ति भारत-स्वस्थ भारत-सवच्छ भारत-सवावलम्बी भारत-संपन्न भारत
सभी को मिलाकर गाँवों के विकास के लिए
Convergence of Knowledge/ Experience/ Resources for Rural Development



Invitation to Participate/ Contribute in Rural Development

- Unnat Bharat Abhiyan (UBA), a flagship programme of Ministry of Human Resource Development (MHRD), Govt. of India.
- Higher educational institutions (HEIs) of the country adopt villages for their development.
- Faculty and students to be involved in village development plan in collaboration with district administration.
- SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY is participating in UBA and adopted following villages for their development in collaboration with district administration.

1.Otteri 2.Kumizhi 3.Thenmelpakkam 4.Appur 5.Venkatapuram

IIT Delhi, UBA cell invites all faculty and students to join UBA to bring for transformational change in the villages. For participation in UBA activities, please contact coordinator mentioned below.

Name: Dr. T.Sasipraba / Dr.Y.Swarnalatha
(Coordinator UBA cell)
Phone: 91 -044-24503065
Email: uba@sathyabama.ac.in

National Coordinator UBA
Prof. Virendra Kumar Vijay
Web: www.unnatbharatabhiyan.gov.in
Email: unnatbharatabhiyanitd@gmail.com
Phone : 01126591121, 01126591157

Villages adopted

1. Venkatapuram
2. Appur
3. Thenmelpakkam
4. Otteri
5. Kumizhi
6. Kaliyampoondi

VILLAGE HOUSE HOLD SURVEY AND GRAMASABA FIRST MEETING FOR SURVEY



SURVEY MEETING TO COLLECT THE VILLAGERS DETAILS AND TO IDENTIFY THE ISSUES.





Village level and house hold survey was conducted for collection of basic information and problems of the village. While conducting household survey patch visit were done at different locations of the village. In this village nature has given a lot, especially forest and river resources, but most of the families of this village are landless.

Technology Interventions in adopted villages

<https://youtu.be/1gTaw9feGMI>

<https://www.youtube.com/watch?v=ya8h3MphspY>

https://www.youtube.com/watch?v=7slZ4_Gx7YQ

SCIENCE ON WHEELS

We live in a society which primarily focuses on result-oriented education. Therefore, there is a void emanating in young minds which leads to the lack of interest in investigations and innovations and break through. To fill the gap of the thought process, humanism, spirit of enquiry and reform, it is very much essential to motivate them by providing a scientific environment by '*mobile science laboratory*' particularly to the rural students.

<https://www.facebook.com/watch/?v=475215236385397>





GRAMIN SWATCH TOILET AT KUMUZHI VILLAGE

Proper Hygienic Sanitary conditions are much talked about in the recent times. It is pitiable to note that still in many villages people do not use proper toilet system and are using farm fields. It is unsafe and unhygienic which they are aware of. This project has an objective to curb this menace. The ultimate aim of the project is to provide the most economical and a proper sanitary system.

<https://youtu.be/dhIBe0H6euQ>

PICTURES :



RURAL INDUSTRIALIZATION AND ENTREPRENEURSHIP DEVELOPMENT

This ritual waste is very common throughout India. Centre for Waste Management, Sathyabama Institute of Science and Technology, Chennai has taken steps to collect ritual waste and has succeeded in making incense sticks adapting the 3R concept of Recovery, Recycle and Reuse. Collecting the ritual waste and processing it to obtain a value added material does not only provide options to make the environment clean but also serves as a potential for Rural Industrialization and entrepreneurship development, by initiating this objective in smaller demographic zones in Kumuzhi.



RURAL NON-INVASIVE PRIMARY HEALTH KIOSK

The health kiosk will be of much use to the people to know their vital body parameters which in turn would give them an awareness of their health status. This would enable them to take precautionary health measures. Since there is no PHCs or sub-centre in Thenmelpakkam village, a nurse visits the village once in a week to give vaccination and medicines to younger children and see the health condition of pregnant women. The health kiosk would definitely pave way for a healthier and safer life for the rural people.



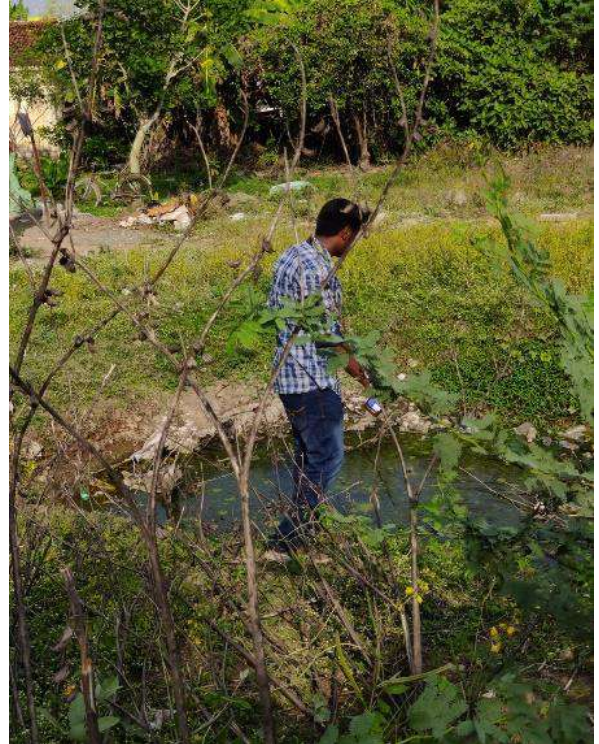
NANOFORMULATIONS FOR SELECTED MOSQUITO LARVAE VECTOR CONTROL IN VENKATAPURAM VILLAGE

Considering the severity of the mosquito borne diseases it has become need of the hour to adopt preventive and control measures to halt the transmission of dengue. This in turn depends on the community acceptance and participation which again depends on the community awareness regarding dengue and its prevention. With this contextual under UBA project work, on behalf of Sathyabama Institute of Science and Technology we have created awareness about the mosquito vector borne diseases like dengue among the rural population in Venkatapuram village by distributing pamphlet

OUR SERVICES AT ADOPTED VILLAGES



ACTIVITIES CARRIED OUT



GO GREEN & ZERO PLASTIC

Sathyabama Institute of Science & Technology has conducted UBA (Unnat Bharat Abhiyan) Camp on 17.02.2020 at Kumizhi village, Near Thiruporur. Around 60 students from NSS and NCC Participated in Awareness Rally on “Go Green & Zero Plastic” for the villagers and government school students also actively involved in Tree Plantation & village cleaning. As a part of this event, 25 lts of Biogenic Mosquito larvae control liquid was sprayed throughout the village in the water stagnant areas.



DENTAL AND MEDICAL CAMP

Personal hygiene is very important task to teach school age children to protect them from the threat of germs and disease. Among personal hygiene hand wash is important task; hence school students are given awareness on this. To bring this an easy and simple technique used **foldscope microscope** to identify the germs before and after hand wash. In addition, girls are taught the importance of the personal hygiene in the teenagers. In adopted villages monthly once Medical and dental camps were conducted.



PERSONAL HYGIENE

Personal hygiene is very important task to teach school age children to protect them from the threat of germs and disease. Among personal hygiene hand wash is important task; hence school students are given awareness on this.

