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UNNAT BHARAT ABHIYAN

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REPORT ON AICTE RURAL INTERNSHIP PHASE II

BUILDING A BRIGHTER TOMORROW ONE VILLAGE AT A TIME

12.06.2025 - 28.06.2025



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Introduction:

Phase 2 of the UBA Rural Internship commenced on **12 June 2025** with an orientation session at **Sri Sairam Techno Incubator Foundation**. The opening day focused on familiarizing the participants with the objectives of the second phase, outlining their specific responsibilities, and reinforcing knowledge on survey methodologies, community engagement approaches, and sustainable rural practices. This session acted as a refresher and prepared students to work more effectively with the adopted villages in this phase.

As part of the activities, students revisited the adopted villages to deepen their understanding of rural lifestyles, identify emerging or unresolved challenges, and contribute towards practical, sustainable solutions. Household and village-level survey forms were collected and the information was meticulously entered into the official **UBA government portal**. By digitizing this data, Phase 2 continued to strengthen the groundwork for developing Village Development Plans (VDPs) and ensured that progress in rural development could be effectively monitored and evaluated.



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About the Event:

Location: Sri Sairam Techno Incubator Foundation

Date: 12th June 2025 – 26th June 2025

Time: 9:00 AM – 12:30 PM

Participants: 87 Students

UBA Coordinator: Mr. R. Chithrakkannan

Faculty Coordinators: Mr. A. Muthuvel, Mr.D.Prabhu, Mr.Aathilingam

Objective:

Phase 2 of the UBA Rural Internship was focused on bridging the gap between classroom knowledge and the practical processes involved in rural development activities. This stage placed a strong emphasis on the digital management of household and village survey data, guiding students through the systematic workflow of uploading and maintaining records in the official UBA government portal. By engaging in these activities, participants developed both technical accuracy and an understanding of how well-organized data forms the foundation for Village Development Plans (VDPs) and ongoing progress monitoring under the Unnat Bharat Abhiyan framework.

Key Outcomes:

- **Efficient Data Entry:** Survey information from adopted villages was accurately uploaded to the UBA portal, ensuring completeness and consistency.
- **Verified Digital Records:** Students worked in teams to cross-check and validate data before submission, improving its reliability for planning purposes.
- **Use of Student-Developed UBA App:** The mobile app created by students was implemented during field visits, drastically reducing the use of paper forms and making data collection faster and more error-free.
- **Understanding the Data–Development Link:** Participants gained a clearer view of how properly documented data influences government decision-making and rural development strategies.



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UNNAT BHARAT ABHIYAN PORTAL

The **Unnat Bharat Abhiyan (UBA) Portal** serves as the central digital interface for the Ministry of Education's rural development initiative. It enables higher educational institutions to upload, manage, and analyze village- and household-level data collected during field interventions. The portal supports:

- **Data Upload & Documentation:** Interns can upload survey responses from adopted villages directly into the portal, keeping records clear and structured.
- **Village Development Planning (VDPs):** The uploaded data is used to assess local needs and craft tailored Village Development Plans.
- **Progress Monitoring:** The portal allows for efficient tracking of ongoing rural development activities and outcomes.
- **Collaborative Insights & Planning:** It also functions as a platform for sharing best practices, interactive collaboration, and consolidating institutional learnings across UBA participants.

UBA Baseline Household Survey Form

UBA Network Village *

Select

Village *
Poonthandalam

Gram Panchayat *
Poonthandalam

Ward No.(between 1 and 50) *

Block *
Kunnattur

District *
Kanchipuram

State *
Tamilnadu

1. Respondent's Profile

Name *

Gender *
Select

Age(between 1 and 100) *

Phone No *

Mobile No *

Relationship with Head of Household *

2. General Household Information

Name of the Head (Household) *

Gender *
Select

Total No. of Family Members *

Frequency of collection of Waste *

Waste Source segregated *

Category *

Poverty Status *

Own House *

Type of House *

Toilet *

Drainage linked to House *

Waste Collection System *

Compost Pit *

Biogas Plant *

Household Annual Income *



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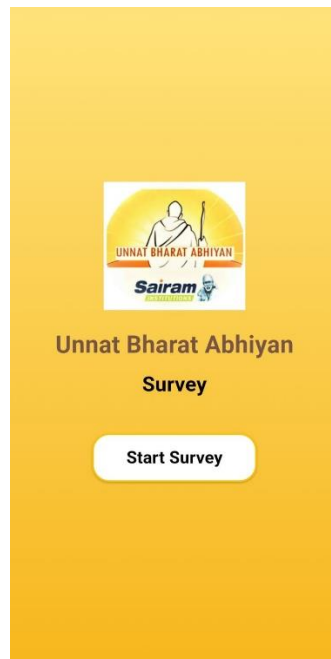


UNNAT BHARAT ABHIYAN MOBILE APPLICATION

The **UBA App** was developed by the students of Sri Sairam Engineering College as an innovative digital tool to streamline rural survey activities. Designed to replace traditional paper-based forms, the app brings multiple advantages in terms of efficiency, sustainability, and data accuracy.

By moving away from physical forms, the app significantly reduces paper consumption, contributing to environmental conservation and supporting eco-friendly practices. Digitalizing the entire data collection process also minimizes the risk of misplaced or damaged records, while ensuring that all information is stored securely and can be retrieved instantly when required.

For field surveyors, the app offers unmatched convenience. Being lightweight and mobile-friendly, it allows surveyors to record responses on the spot, even in remote areas, without the need to carry bulky forms or stationery. The built-in form structure ensures uniformity in data entry, reduces human error, and allows for quick synchronization with the UBA portal.




**Welcome to UBA-
Adopted Village Survey!**

Login

Schedule Filled By

College ID

Password

Mentor



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WORK COMPLETED:

VILLAGE	SURVEY COUNT
Poonthandalam	1342
Naduveerapattu	530
Puducheri	10
Nandambakkam	1178
Varadharajapuram	602
Somangalam	813
TOTAL	4475

We have surpassed VIT in the total number of surveys conducted and are currently leading in **overall Tamil Nadu** for this phase with the highest number of surveys completed.

- As part of our outreach and development initiative, household surveys and interventions were successfully carried out across six adopted villages.
- This effort covered **an additional 1,401 households in Phase 2**, reflecting our dedication to inclusive rural engagement and evidence-based development planning.
- The variation in numbers between villages highlights specific regional needs, enabling better prioritization and targeted follow-up activities.

ID	State	District	Institute Name	AISHE Code	PI Unique Code	Coordinator	Email ID	UBA Network Villages	Household Survey Data	Regional Coordinating Institute
1	Tamilnadu	Kanchipuram	Sri Sairam Engineering College	C-16547	PI00003773-TN-IIT-Madras	Mr.R. CHITHRAKANNAN	sairam@sairam.edu.in	1. Poonthandalam 2. Somangalam 3. Nandambakkam 4. Puducheri 5. Varadharajapuram 6. Naduveerapattu	Poonthandalam (1342) Somangalam (813) Nandambakkam (1178) Puducheri (10) Varadharajapuram (602) Naduveerapattu (530)	Indian Institute of Technology, Madras



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VILLAGE VISIT

As part of Phase 2 of the UBA Rural Internship, our field visits focused on four primary target villages: **Varadharajapuram, Somangalam, Nandambakkam, and Naduveerapattu**. These visits were conducted after the completion of the data entry process to ensure a deeper, on-ground understanding of the communities we serve.

The primary objective of these visits was to directly engage with residents, observe local conditions, and identify specific needs that might not be fully captured through survey data alone. Our teams explored multiple wards within each village, interacting with community members to gather firsthand insights into their daily challenges and aspirations. We also assessed existing facilities, resources, and ongoing initiatives to evaluate their effectiveness and relevance.

By combining structured survey data with real-world observations, the village visits allowed us to form a more comprehensive picture of each community's priorities. This approach supports the development of **practical, need-based solutions** that are both sustainable and tailored to the unique characteristics of each village.



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VARADHARAJAPURAM:

The survey data from Varadharajapuram highlighted several pressing challenges affecting the daily lives of residents. Key issues include inadequate drainage systems, persistent mosquito and sanitation problems, and concerns over water supply and quality. Waste collection and disposal practices were found to be insufficient, leading to environmental and health risks. Road conditions and transportation facilities, including the absence of a proper bus stand, limit mobility for villagers. Additionally, gaps in electricity supply, poor street lighting, and the non-receipt of certain government schemes further impact the community's quality of life. Addressing these interconnected issues will require coordinated planning, resource allocation, and active community participation.



GPS Map Camera

Kancheepuram, Tamil Nadu, India

W3rg+w2r, Dharkast Rd, Tamil Nadu 602109, India,
Kancheepuram, Tamil Nadu 602109, India
Lat 12.94217° Long 80.074732°
17/06/2025 11:41 AM GMT +05:30



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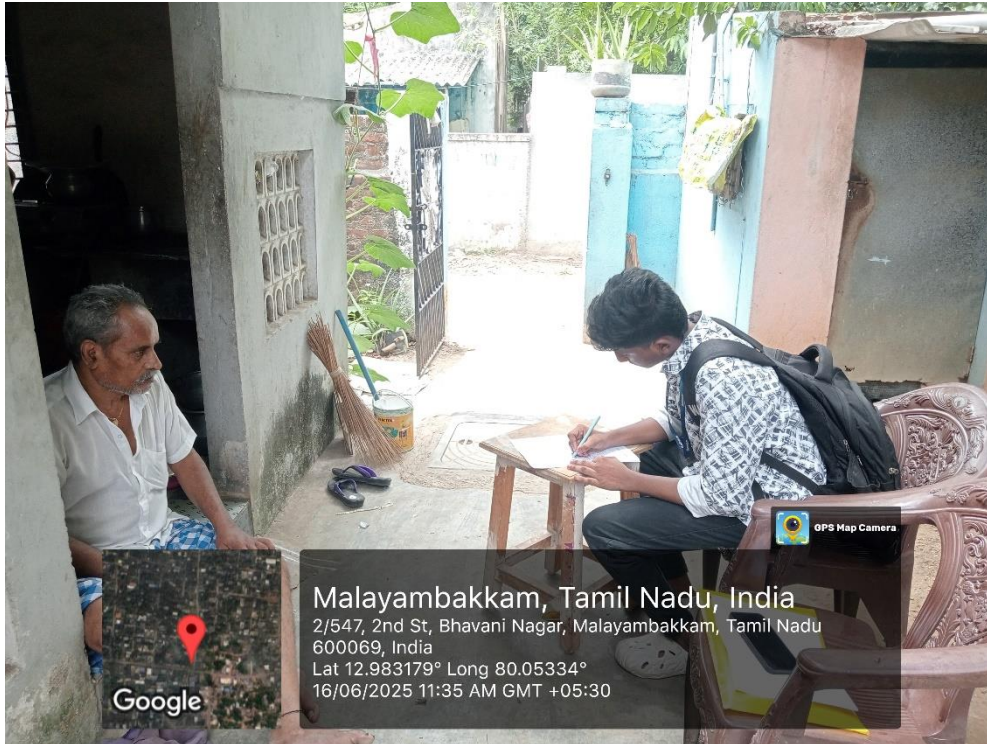


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NANDAMBAKKAM

The survey in Nandambakkam revealed a range of critical issues impacting public welfare and infrastructure. Water scarcity and drainage system inefficiencies emerged as major concerns, compounded by inadequate garbage disposal and waste management practices. Electricity supply problems and damaged roads hinder daily life and economic activities, while flood and rainwater drainage challenges increase vulnerability during monsoon seasons. Limited access to essential public utilities such as street lights, medical camps, and playgrounds further affects community well-being. Gaps in government service delivery, including delays in issuing vital documents and providing welfare schemes, were also reported. Residents stressed the need for improved sanitation measures and better access to development funds to address these recurring problems.



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SOMANGALAM:

The survey findings from Somangalam brought attention to several pressing civic and social issues. Residents reported persistent mosquito and sanitation challenges, along with concerns over both the quality and reliability of water supply. Waste collection and disposal systems were found to be inadequate, leading to unhygienic conditions. Road and transportation gaps, combined with insufficient bus stand facilities, restrict mobility and access to essential services. Problems in electricity supply and street lighting further affect safety and daily routines. A lack of health facilities, absence of regular medical camps, and limited public amenities like parks were also noted. Additionally, issues surrounding house and patta documentation, gaps in government scheme delivery, and poor flood and rainwater management remain unresolved, necessitating focused intervention.



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NADUVEERAPATTU:

In Naduveerapattu, the household survey highlighted a series of interconnected challenges affecting both infrastructure and livelihoods. Drainage and grey water discharge issues were common, often leading to unsanitary conditions. Waste collection services were reported to be irregular, while water supply faced both quantity and purity concerns. Residents also experienced frequent electricity fluctuations, impacting daily activities. Poor road conditions limited mobility and economic opportunities, while mosquito infestations and sanitation gaps added to public health risks. Issues related to inadequate housing and land patta documentation created insecurity for many households. Additionally, unemployment and limited income-generating opportunities emerged as significant barriers to sustainable development in the village.



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CHENNAI TRADE CENTRE VISIT – ACMEE 2025

On 21st June, as part of our internship experience, we had the opportunity to visit the ACMEE 2025 International Machine Tools Expo at the Chennai Trade Centre. The event brought together cutting-edge innovations in manufacturing, automation, and engineering technologies from across the globe. The vibrant atmosphere, filled with stalls showcasing advanced machinery and industry solutions, gave us a first-hand view of the latest trends in the sector.

We explored a wide range of exhibits, interacted with representatives, and even visited our college's stall, which proudly displayed student innovations such as the *Ad Astra* rover. This visit was not only informative but also broadened our understanding of how engineering concepts translate into real-world industrial applications. It was a day of learning, networking, and inspiration, made possible through the support of Sri Sairam Engineering College and our mentors, whose encouragement continues to push us beyond our comfort zones.



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MANNIVAKKAM MODEL VILLAGE VISIT

As part of our AICTE Rural Internship under the Unnat Bharat Abhiyan, we had the opportunity to visit Mannivakkam, a model village known for its clean surroundings, organized infrastructure, and active citizen participation. The visit began with a warm welcome from the Village Secretary, who explained the village's ongoing development efforts. We explored their well-maintained nursery, solid waste management unit, and RO water plant, each designed to function sustainably and benefit the entire community. The waste management system, in particular, stood out for its cleanliness and efficiency, turning biodegradable waste into organic fertilizer and even reusing plastics for road construction.

It was inspiring to see how the residents actively cooperate in initiatives like waste segregation, water conservation, and maintaining public spaces. The lush gardens, nurtured with organic compost, added to the village's charm and reflected the success of their sustainable practices. The visit gave us not only an understanding of effective rural governance but also a strong sense of how community participation can drive long-lasting development.



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CONCLUSION

The AICTE Rural Internship provided a remarkable platform to bridge the gap between academic learning and the realities of rural life. Through our active participation in the survey and fieldwork across the adopted villages, we gained first-hand exposure to the socio-economic conditions, local challenges, and community aspirations. This experience not only deepened our understanding of rural development issues but also enhanced our ability to think critically and contribute meaningfully to community-based problem-solving.

Our interaction with the residents revealed the interconnected nature of factors such as education, healthcare, infrastructure, livelihood opportunities, and environmental sustainability in shaping the overall quality of life in rural areas. By documenting accurate and detailed household data, we have created a valuable resource that can assist policymakers, local authorities, and development organizations in implementing targeted interventions.

The internship also served as a practical extension of our classroom knowledge, helping us apply theoretical concepts from various domains to real-world contexts. We developed essential skills such as effective communication, data collection and analysis, teamwork, and empathy towards diverse communities. These are qualities that will serve us well in both our academic journey and future professional endeavours.

Most importantly, this internship instilled in us a sense of social responsibility and a commitment to contributing to nation-building. By understanding the challenges faced by rural communities and working towards sustainable solutions, we have taken a small yet significant step towards inclusive development.

The insights and experiences gained from the adopted villages will continue to inspire us to be agents of positive change. We are confident that this internship will have a lasting impact on our perspectives, encouraging us to align our technical expertise with the broader goal of societal progress.



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