

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY
JNANA SANGAMA, BELAGAVI- 590 018**



“AICTE Activity Point Programme”

***Submitted in Partial Fulfillment for the Award of Degree of
Bachelor of Engineering
in
Mechanical Engineering***

**Submitted by
Zoya B I
1AT21ME016**

Under the Guidance of

**Mr Prashanth Kumar S
Assistant Professor
Dept of ME, Atria IT**

AICTE Activity Coordinator

**Dr. Nalinakshi N
Vice Principal
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**Department of Mechanical Engineering
ATRIA INSTITUTE OF TECHNOLOGY
Anand Nagar, Hebbal, Bengaluru-560024**



Department of Mechanical Engineering
ATRIA INSTITUTE OF TECHNOLOGY
Anand Nagar, Hebbal, Bengaluru-560024

AICTE Activity Point Programme CERTIFICATE

This is to certify that the **AICTE Activity Point Programme** has been successfully carried out by **Zoya B I** bearing **USN 1AT21ME016**, bonafide student of **Atria Institute of Technology** in partial fulfillment of the requirements for the award of degree of **Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belagavi** during **2024-25**. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The AICTE Activity Point Programme report has been approved as it satisfies the academic requirements in respect of AICTE Activity Point Programme for the said degree.

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Assistant Professor
Dept of ME Atria IT

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Dr. Venkate Gowda C
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Dr. Nalinakshi N
AICTE Activity Points
Coordinator for College

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Principal

CERTIFICATE PHOTOCOPY

NITI Aayog (UDIN):- KA/2016/0110978 | CSR NO:- CSR00002334



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Snehadeep

Trust for the Disabled
Ray of hope

CERTIFICATE OF PARTICIPATION

THIS CERIFICATE IS AWARDED TO

ZOYA B I

THANK YOU FOR PARTICIPATING IN THE EVENT ORGANIZED ON 10TH FEB 2025 SWACHH
BHARAT DRIVE BANGALORE

ACTIVITY DURATION – 80 HOURS



EVENT COORDINATOR

FOUNDER

ನಂ. ೧೫, ಹಚ್ಚಿನ್ ರಸ್ತೆ ೬ನೇ ಅಡ್ಡ ರಸ್ತೆ ಎಸಿಡಿ ಸಂಸ್ಥೆ ಎದುರು, ಸೆಂಟ್ ಥಾಮಸ್ ಟೌನ್, ಅಂಗರಾಜಮಾರಂ, ಬೆಂಗಳೂರು - ೫೬೦೦೮೪
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LGS RESEARCH FOUNDATION

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CERTIFICATE

ZOYA BAMBAIKAR ISMAIL

This certificate acknowledges the student's participation in the Activity designed to award 20 AICTE Activity Points as per the Implementation model of LGS Research Foundation designed on the basis of University and AICTE rules.

Activity Title: SUSTAINABILITY OF TRADITIONAL ARTISANS - Promotion of GI TAGGED Products

Duration: 20-04-2025 to 10-05-2025

Implementation Model: Learning Session, Field Visit, Public Awareness, Survey, Case Study, Solution as Beneficiary-Law Maker - Engineer for the relevant scenarios, Startup Idea by Student, Financial Projections for the Startup and Exit Test

University Serial Number: 1AT21ME016

College Name: Atria Institute of Technology

Handwritten signature of Mr. Harsha S.

Mr. Harsha S
Managing
Director

For Grievance: Visit us at #126, 1 Floor, 7 Cross, 24 Main, Hoyalalnagera, Sunkadakatte, Bangalore - 560091. Ph: +91-9742942597



Help Child India Foundation (R)

No. 1031 7th 'A' Main Road, Koramangala 1st Block, BANGALORE - 560 034.
E-mail: helpchildindia.org@gmail.com, Website: www.helpchildindia.org

Date

DATE-14 /01/2025

FROM

Help Child India Foundation

No. 163, Chikkanappa Layout, 4th cross, Byrathi Village

Doddagubbi Post, Bengaluru, Karnataka-560077

This is to certify that Ms. Zoya B I, BE in Mechanical Engineering, from Atria Institute of Technology, Bangalore has successfully completed 80 hours AICTE Activity with our organization Help Child India Foundation, from 2nd to 14th January

Activities carried out by the student are interacting with students, teaching them, doing some of the administrative work on a daily basis.

We are pleased to state that she has worked hard and is authentic, the student has successfully completed the 80 hours (2 weeks), activity of "Helping local schools to achieve good result and their enrolment in Higher/Technical/Vocational education"s

From Help Child India Foundation



Administrator



ಸ್ನೇಹದೀಪ ಪ್ರಶ್ನ ಫಾರ ದಿ ದಿಸೇಬಲ್ಡ್
Snehadeep Trust for the Disabled
Ray of hope

INTERNSHIP CERTIFICATE

TO WHOM SO EVER IT MAY CONCERN

This is to certify that **Ms. ZOYA BI, BE In Mechanical Engineering**, from **Atria Institute of Technology, Bangalore** has successfully completed the Internship in our **SNEHADEEP TRUST FOR THE DISABLED**, from 15th Jan 2025 to 15th Feb 2025.

Activities carried out by the student are Interacting with visually impaired Students and making a donation.

We are pleased to state that she worked hard and seems to be authentic. The student has successfully completed the required 1 month of NGO internship.

We as an Organization wish her every success in her life.

For SNEHADEEP TRUST FOR THE DISABLED



ANTONIE MARIA
ADMINISTRATOR



Date : 15th February 2025

ನಂ. ೧೫, ಹಬ್ಬನ್ ರಸ್ತೆ ೬ನೇ ಅಡ್ಡ ರಸ್ತೆ ಎಸಿಹಿ ಸಂಸ್ಥೆ ಎದುರು, ಸೆಂಟ್ ಥಾಮಸ್ ಟೌನ್, ಅಂಗರಾಜಮಾರಂ, ಬೆಂಗಳೂರು - ೫೬೦೦೮೪
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www.snehadeep.org



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CERTIFICATE

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Activity Title: SUSTAINABILITY OF TRADITIONAL ARTISANS – Promotion of GI TAGGED Products

Duration: 20-04-2025 to 10-05-2025

Implementation Model: Learning Session, Field Visit, Public Awareness, Survey, Case Study, Solution as Beneficiary-Law Maker - Engineer for the relevant scenarios, Startup Idea by Student, Financial Projections for the Startup and Exit Test

University Serial Number: 1AT21MED016

College Name: Atria Institute of Technology

Harsha S

Mr. Harsha S
Managing
Director

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Department of Mechanical Engineering
ATRIA INSTITUTE OF TECHNOLOGY
Anand Nagar, Hebbal, Bengaluru-560024

DECLARATION

I, **Zoya B I** bearing the **USN: 1AT21ME016**, student of **Bachelor of Engineering in Mechanical Engineering, Atria Institute of Technology, Bangalore**, hereby declare that the **AICTE Activity Point Programme** work has been carried out by me under the supervision and guidance of Department Staff Coordinators submitted by me as a partial fulfillment for the award of **Bachelor of Engineering** degree in **Mechanical Engineering** from **Visvesvaraya Technological University, Belagavi** during **2024-25**.

I hereby declared that the AICTE activity point work has been carried out at following partner organizations:

1. Snehadeep Trust for the Disabled
2. Help Child India Foundation
3. LGS Foundation

Zoya B I
1AT21ME016

ACKNOWLEDGEMENT

I extend my heartfelt gratitude to the **Management**, along with **Dr. Rajesha S**, Principal of **Atria Institute of Technology**, **Mr. Prashanth Kumar S**, Assistant Professor at **Atria Institute of Technology** and **Dr. Nalinakshi N**, AICTE Activity Points Coordinator at **Atria Institute of Technology**, for their unwavering support and provision of essential resources for the successful execution of this program.

I am also deeply thankful to the **NPTEL Online Certification**, **LGS Foundation**, **Help Child India Foundation & Snehadeep Trust for the Disabled**, for their invaluable support in offering meaningful volunteering opportunities and resources.

Lastly, I would like to express my sincere appreciation and respect to my parents, the teaching and non-teaching staff of the Department, and all my friends who have supported me, directly or indirectly, throughout my AICTE Activity Point Programme journey.



Zoya B I

1AT21ME016

Work Content

Sl. No.	Activity Heads	From date- To date	Number of Week	Total No of Hours	Performance Appraisal / Points earned (To be Filled by Coordinators)	Remarks
1	Helping local schools to achieve good result & enhance their enrolment in Higher/ Technical/ Vocational Education	7 th Jan – 14 th Jan 2025	2	80		
2	Preparing an actionable business proposal for enhancing the village income	20 th Apr – 10 th May 2025	2	80		
3	Developing Sustainable Water Management system					
4	Tourism Promotion Innovative Approaches					
5	Promotion of Appropriate Technologies					
6	Reduction in Energy Consumption	7 th Jan – 14 th Jan 2025	2	80		
7	To Skill rural population	15 Jan – 15 Feb 2025	2	80		
8	Facilitating 100% Digitized money transactions					
9	Setting of the information imparting club for women leading to contribution in social and economic issues					
10	Developing and managing efficient garbage disposal system					
11	To assist the marketing of rural produce					
12	Food preservation/packaging					
13	Automation of local activities					
14	Spreading public awareness under rural outreach programmes					
15	Contribution to any national level initiative of Government of India, For e.g. Digital India/ Skill India/ Swachh Bharat Internish etc	Jan - Apr 2024	16	80		
16	Creating an awareness regarding rain water harvesting in urban and rural area					
TOTAL ACTIVITY POINTS EARNED			24	400		

ABSTRACT

The AICTE activity is a mandatory set of activities done by students, AICTE activities and students develop well rounded personality, enhance skills, and prepare them for your world challenges. They provide opportunities to participate in extracurricular activities, social initiatives and competitions fostering leadership teamwork and a sense of achievement. I have done AICTE activities in the following organizations Snehadeep trust for the disabled, Help child India Foundation, LGS Foundation NPTEL course. All these activities constitute 24 weeks and 400 hours of activities.

The activity is done by me are the

- Helping local schools to achieve good result and enhance their environment in higher/ technical/ vocational education
- Preparing an actionable business proposal for enhancing the village income
- Societal internship
- NPTEL course

These activities have helped me shape my personality and also work on my leadership and team working skills.

TABLE OF CONTENTS

CONTENT

CERTIFICATE	i
CERTIFICATE	ii
DECLARATION	vii
ACKNOWLEDGEMENT	viii
WORK CONTENT	ix
ABSTRACT	x
TABLE OF CONTENTS	xi
LIST OF FIGURES	xii

CHAPTER NO.	CHAPTER NAME	PAGE NO.
1	Introduction	1
2	Activities Done	
	2.1 ACTIVITY 1: Reduction in Energy Consumption	2-3
	2.1.1 Scope	
	2.1.2 Project Implementation	
	2.1.3 Use of technology	
	2.2 ACTIVITY 2 : Helping local schools to achieve good result & enhance their enrolment in Higher/ Technical/ Vocational Education	4-7
	2.2.1 Scope	
	2.2.2 Project Implementation	
	2.2.4 Brief explanation of day today activity conducted	
	2.3 ACTIVITY 3: Societal Internship – To Skill Rural People	8-12
	2.3.1 Scope	
	2.3.2 Project Implementation	
	2.3.4 Brief explanation of day today activity conducted	
	2.3.5 My role and contribution to their goal	

	2.4 ACTIVITY 4: Preparing an actionable business proposal for enhancing the village income	13-26
	2.4.1 Introduction	
	2.4.2 Details of activity	
	2.4.3 Certificate	
	2.4.4 Overall learning	
	2.4.5 Documentation of activity	
	2.5 ACTIVITY 5: Swachh Bharat	28-29
	2.5.1 Overview	
	2.5.2 Use of Technology	
	2.5.3 Sustainable Development Best Practices	
3	Project Outcome	
	3.1 Outcome in Activity 1	30
	3.2 Outcome in Activity 2	30
	3.3 Outcome in Activity 3	31
	3.4 Outcome in Activity 4	31
	3.5 Outcome in Activity 5	32
4	Photo gallery	
	4.1 Photo Gallery of Activity 1	33
	4.2 Photo Gallery of Activity 2	34
	4.3 Photo Gallery of Activity 3	36
	4.4 Photo Gallery of Activity 4	39
	4.5 Photo Gallery of Activity 5	40
5	Conclusion	41

LIST OF FIGURES

Figure No	Description	Page No
4.1	Solar Panel In Visited Location	33
4.2	Solar Panel In Visited Location	33
4.3	Picture in front of Snehadeep	34
4.4	Picture in Snehadeep	34
4.5	Snehadeep's Skill Center	35
4.6	Snehadeep's Skill Center	35
4.7	Help Child India Foundation	36
4.8	Help Child India Foundation Classroom	36
4.9	Help Child India Foundation Student's Classroom	37
4.10	Help Child India Foundation Student's Classroom	37
4.11	Help Child India Foundation Student's Classroom	38
4.12	Help Child India Foundation Student's Classroom	38
4.13	Sansar Shop	39
4.14	Sansar Shop Sarees	39
4.15	Sansar Shop Sarees	39
4.16	Swachh Bharat	40
4.1.7	Swachh Bharat	40

CHAPTER 1

INTRODUCTION

The AICTE activity is a mandatory set of activities done by students, AICTE activities and students develop well rounded personality, enhance skills, and prepare them for your world challenges. I have done AICTE activities in the following organizations Snehadeep trust for the disabled, Help child India Foundation, LGS Foundation. All these activities constitute 24 weeks and 400 hours of activities.

The activities done by me are:

- Helping local schools to achieve good result and enhance their environment in higher/ technical/ vocational education done in Help Child India Foundation
- Preparing an actionable business proposal for enhancing the village income done in LGS Foundation
- Societal internship done in Snehadeep Trust for the Disabled

These activities were done during break from college between semesters. These activities have helped me with understanding life from a different perspective. It has helped me build a strong personality and rational decision making skills.

CHAPTER 2

ACTIVITIES DONE

2.1 ACTIVITY 1: Reduction in Energy Consumption

2.1.1 Scope

The scope of pursuing a solar energy program is exceptionally broad and holds immense promise, fueled by the global imperative to transition towards renewable energy and India's ambitious commitments to solar power. This field is experiencing exponential growth, driven by a worldwide push for cleaner energy to combat climate change and reduce reliance on fossil fuels. The declining costs of solar technology, coupled with significant government incentives and subsidies, are making solar power increasingly accessible and attractive for residential, commercial, industrial, and agricultural applications alike. From powering remote villages and EV charging stations to integrating with smart home systems and pioneering new innovations like floating solar farms, the applications are continuously expanding. Consequently, a solar energy program opens doors to a diverse array of career opportunities, ranging from hands-on roles in **installation and maintenance** and **engineering and design** to specialized positions in **project management, sales, manufacturing, and research and development**. To meet this burgeoning demand for skilled professionals, a variety of educational avenues are available, including short-term workshops, diploma programs, and university degrees, all aimed at equipping individuals with the expertise needed to thrive in this dynamic and vital industry.

2.1.3 Project Implementation

As above mentioned, I have done AICTE earning points project for 80 hours as prescribed by the institution, my project was based on "Reduction in Energy Consumption" done with collaboration with LGS Foundation. In this project we have successfully implemented a solar awareness program in the apartment, after which it was implemented in the apartment.

2.1.5 Use of Technology

- **Solar Photovoltaic (PV) Panels:** This is the most common type, directly converting sunlight into electricity using semiconductor cells, typically made of silicon.
- **Building-Integrated Photovoltaics (BIPV):** These are solar panels seamlessly integrated into the building's architecture, functioning as part of the roof, windows, or facades,

providing both energy generation and aesthetic appeal.

- **Transparent Solar Technology:** A more advanced form of BIPV, these panels are designed to be see-through, allowing them to be used in windows and other glass surfaces, generating electricity without obstructing views.
- **Floating Solar Farms:** As the name suggests, these are solar panel installations on bodies of water, which can save land space and potentially improve efficiency due to the cooling effect of the water.
- **Smart Energy Solutions:** This refers to the integration of solar panels with smart technologies like the Internet of Things (IoT) for enhanced monitoring, optimization, and predictive maintenance of solar power systems.

2.2 ACTIVITY 2: Helping local schools to achieve good result & enhance their enrolment in Higher/ Technical/ Vocational Education

2.2.1 Scope

This AICTE 100-point activity -project 01, is spread across 80 hours of implementation, which includes five board activities in that we took one of the projects called “HELPING LOCAL SCHOOLS TO ACHIEVE GOOD RESULT AND ENHANCE THEIR ENROLLMENT IN HIGHER/TECHNICAL/VOCATIONAL EDUCATION” this project is carried In Help Child India Foundation, Byrathi Village, Doddagubbi, Bengaluru-560077



Help Child India Foundation is registered NGO under the act of Indian Public Trust Act (Inception 2010). It is a non-profit organization that render help to thousands of underprivileged children to improve the society values. The organization is devoted in looking at the wider picture, not only to help one cause but to focus on related causes too. We hope by doing this there will be a positive impact on the community and encourage others to make a difference. We support with No Discrimination on cast and religion and hence all religions are respected equal with humanity. We believe that for change to happen it is necessary to touch the life of a child in its entirety.

Therefore, our development program consists of not just education but includes healthcare, nutrition, community involvement and career counseling. We are committed to offering the highest quality of care within these areas.

2.2.2 Project Implementation

As above mentioned, I have done AICTE earning points project for 80 hours as prescribed by the institution, our project was based on "HELPING LOCAL SCHOOLS TO ACHIEVE GOOD RESULT AND THEIR ENROLMENT IN HIGHER/TECHNICAL/VOCATIONAL EDUCATION" So, we all accepted the place and planned and we submitted permission letter to mentor as well as Govt. school. We started it on "27th of January 2025 ended in 7th of February 2025" in HELP CHILD INDIA FOUNDATION, BYRATHI VILLAGE, BANGALORE- 560077

2.2.4 Brief explanation of day today activity conducted

Help Child India Foundation is a non-profit organization registered under the Indian Public Trust Act since 2010. They are dedicated to improving the lives of underprivileged children in India.

The foundation focuses on a wide range of issues, including:

- **Education:** Providing access to quality education and supporting children's academic development.
- **Healthcare:** Ensuring children have access to essential healthcare services and promoting health awareness.
- **Child Protection:** Working to protect children from abuse, neglect, and exploitation.

Help Child India Foundation operates in several states across India, reaching thousands of children and their families. It strives to create a positive impact on the community and encourage others to make a difference in the lives of underprivileged children.

Role of teachers in Help Child India Foundation:

The role of a teacher at Help Child India Foundation is multifaceted and crucial to the organization's mission of empowering underprivileged children. Here are some key aspects of their role:

- **Educator:** Teachers are responsible for providing quality education to children, focusing on academic development and skill-building. They create engaging and interactive learning environments, adapting teaching methods to suit the needs of each child.
 - **Mentor:** Beyond academics, teachers act as mentors, guiding children in their personal and social development. They provide emotional support, instill values, and help children build confidence and resilience.
 - **Caregiver:** In many cases, teachers at Help Child India Foundation also play a caregiving role, especially for children who may come from challenging backgrounds. They create a safe and nurturing environment, ensuring the well-being of each child.
 - **Role Model:** Teachers serve as positive role models, inspiring children to dream big and strive for a better future. They embody the values of compassion, dedication, and hard work.
 - **Community Builder:** Teachers often work closely with the local community, engaging parents and families in the children's education. They bridge the gap between the school and the community, fostering a supportive environment for children's growth.
-

Overall, teachers at Help Child India Foundation play a vital role in transforming the lives of underprivileged children. They are not just educators but also mentors, caregivers, and role models, shaping the future of these children and contributing to a more equitable society.

My role and contribution to their goal

Over a ten-day period, I dedicated three-four hours daily to volunteering at the Help Child India Foundation, focusing on enriching the lives of the children through educational and interactive activities. My primary role involved teaching a range of subjects, including English, Kannada, and Mathematics. I adapted my teaching methods to suit the diverse learning styles and ages of the children, aiming to make the learning process engaging and accessible. Beyond formal instruction, I prioritized creating a positive and supportive learning environment.

A significant part of my time was spent interacting with the children on a personal level. We engaged in play, which helped build rapport and fostered a sense of community. These interactions provided valuable insights into their individual personalities, strengths, and needs. Recognizing the importance of creative expression, I also organized drawing sessions. These activities allowed the children to explore their artistic talents, express their thoughts and emotions, and develop their fine motor skills. I provided encouragement and guidance, fostering their self-confidence and creativity.

This immersive experience provided me with a deeper understanding of the challenges and opportunities faced by the children at the foundation. It was a rewarding experience to contribute to their educational and personal development, and I believe that the time spent with them had a positive impact. I witnessed first-hand their enthusiasm for learning and their resilience in the face of adversity. This volunteer experience reinforced the importance of supporting organizations like Help Child India Foundation in their mission to empower underprivileged children.

2.3 ACTIVITY 3: Societal Internship

2.3.1 Scope

This AICTE 100-point activity -project 01, is spread across 80 hours of implementation, which includes five board activities in that we took one of the projects called “SOCIAL INTERNSHIP-To Skill Rural Population” this project is carried in Snehadeep trust for the disabled, Hutchins Rd, St Thomas Town, Cooke town, Bengaluru-560084



Snehadeep Trust for the Disabled was established in 1999 by three highly motivated graduates, all visually impaired. They had a strong desire to help people with disabilities in rural areas especially and for them to have access to opportunities for which the founders had to fight so hard to obtain

The principal goals of Snehadeep are to provide:

- Food & Accommodation,
- Education,
- Training and assistance with personal development to both the visually impaired and physically challenged.

In recent years, the organization has grown and now extends its activities to shelter not only those with physical disability but also children from economically disadvantaged backgrounds.

2.3.2 Project Implementation

As above mentioned, I have done AICTE earning points project for 80 hours as prescribed by the institution, our project was based on "SOCIAL INTERNSHIP-To Skill Rural People " It was done by me in SNEHASDEEP TRUST FOR THE DISABLED, Hutchins Rd, St Thomas Town, Cooke town, Bengaluru-560084 for a month from 15 January 2025 to 15 February 2025 During the break between 7th and 8th semester.

2.3.4 Brief explanation of day today activity conducted

Snehadeep Trust for the Disabled is a non-profit organization established in 1999 by three visually impaired graduates with the aim of empowering individuals with disabilities, particularly the visually impaired, through education, healthcare, employment, and social development initiatives in Karnataka, India.

Key Objectives and Activities:

- **Education and Training:** The trust provides comprehensive education and training to visually impaired and physically challenged individuals. This includes computer skills, English communication, leadership development, motivation, and confidence-building. They also assist students in obtaining certifications from recognized institutions.
- **Accommodation and Support:** Snehadeep Trust offers food, accommodation, and medical facilities to visually impaired students at their centers.
- **Employment Assistance:** A significant focus is placed on securing suitable job placements for the trained individuals in various sectors such as government organizations, banks, schools, and private companies. They also offer skill development and livelihood programs to enhance employability.
- **Personal Development:** The trust aims to provide assistance with the overall personal development of the individuals they support, enabling them to become independent and economically sound.
- **Environmental Conservation:** Through their "Prakruti Snehi Programme," they collect recyclable materials like paper and plastic, which are sold to recycling units. Part of the collected paper is used to create Braille sheets for visually impaired students. This initiative also generates employment for disabled individuals.
- **Cultural Programs:** Snehadeep encourages hidden talents in their students by providing training in fine arts like dance and music and offering platforms for stage performances.
- **Mobility Training:** They provide essential mobility training to visually impaired individuals, teaching them to move around safely using aids like long canes.
- **Support Equipment:** The trust also supports non-residential visually challenged individuals by providing aids and equipment like walking canes and wheelchairs.
- **Support for Economically Disadvantaged Backgrounds:** In recent years, Snehadeep has expanded its reach to include children from economically weaker sections of society.

Locations:

Snehadeep Trust for the Disabled operates at two main centers in Karnataka

- Bangalore: #15, 6th Cross, Hutchin's Road, St. Thomas Town, Opposite APD, Bangalore - 560084. The center is near Lingarajapuram Bridge. Operational hours are typically from 9:30 AM to 6:00 PM, Monday to Sunday. However, one source indicates it's open 24 hours. It's best to confirm the timings directly with the trust.
- Ranebennur: No 7th Cross Shriramanagara, Near N V Hotel, PB Road, Ranebennur - 581115. Operational hours here are generally from 8:00 AM to 8:00 PM, Monday to Sunday.

Founders:

The trust was founded in 1999 by three visually impaired graduates

- Paul Muddha
- Shrimanna narayan B. G.

Snehadeep Trust welcomes volunteers and donations to support their ongoing efforts in empowering individuals with disabilities.

2.3.5 My role and contribution to their goal

Over a month's period, I dedicated four-five hours daily to volunteering at the Snehadeep trust for the disabled, focusing on enriching the lives of the people through Helping them out and interactive activities. My primary role involved a range of things, including involving in administrative activities, like taking donors calls, tending to people, braille printing, handing out those sheets to people there for their ease, and finally scheduling their activities.

Snehadeep Trust for the Disabled offers a variety of educational and training programs aimed at empowering individuals with disabilities, particularly the visually impaired, and those from economically disadvantaged backgrounds. These programs are designed to foster independence, enhance skills, and improve employability. Some of the things which they teach are:

For Visually Impaired and Physically Challenged Individuals:

-
- **Computer Skills:** They provide comprehensive computer training, often utilizing screen-reading software like JAWS (Job Access with Speech), to make technology accessible to the visually impaired. They also assist students in obtaining certifications from recognized institutions.
 - **English Communication:** Training is imparted to improve spoken English skills and build confidence in communication, which is crucial for professional and social interactions.
 - **Leadership Development:** Programs aim to cultivate leadership qualities in students.
 - **Motivation and Confidence Building:** They conduct courses focused on enhancing self-esteem and motivation.
 - **Job Skills Development:** Snehaddeep offers training to develop skills relevant to various job sectors, improving their employability.
 - **Mobility Training:** Essential training is provided to help visually impaired individuals move around safely and independently using mobility aids like long canes.
 - **Personal Development:** They offer guidance and support for the overall personal growth of the individuals

2.4 ACTIVITY 4: Preparing an actionable business proposal for enhancing the village income

2.4.1 Introduction

A Geographical Indication is a name or sign used on certain products which corresponds to a specific geographic location or origin. India as a member of World Trade Organization enacted the Geographical Indication of Goods (Registration and Protection) Act, 1999 has come into force with effect from 15 September 2003. It is defined in Article 22(1) of the WTO Agreement on TRIPS (Trade Related Aspects of Intellectual Property Rights). GI Tag ensures that none other than those registered as authorized users or at least those residing inside the geographic territory are allowed to use the popular product name. As on 2023, India has 475 GI Tagged Products and more than 1000+ are in the list to be recognized as GI Tag. Darjeeling Tea became the first GI Tagged Product in India.

A protected GI does not entitle the holder to prevent someone from making a product using the same technique that is used in the standards for indication. The basic motive of the geographical indication Tag is to prevent unauthorized use of a Registered Geographical Indication by others. The GI provides security to the new or unique goods manufactured or produced by an individual or association of person etc.

GI tags are issued as per the Geographical Indications of Goods (Registration and Protection) Act, 1999. This tag is issued by the Geographical Indication Registry under the Department of Industry Promotion and Internal Trade, Ministry of Commerce and Industry. As per the fourth schedule, the GI Products are classified as 34 Classes from Class 1 to Class 34. For Example:

- 1) Class 1. Chemical used in industry, science, photography, agriculture, horticulture and forestry; unprocessed artificial resins, unprocessed plastics; manures; fire extinguishing compositions; tempering and soldering preparations; chemical substances for preserving foodstuffs; tanning substances; adhesive used in industry
- 2) Class 2. Paints, varnishes, lacquers; preservatives against rust and against deterioration of wood; colorants; mordents; raw natural resins; metals in foil and powder form for painters; decorators; printers and artists
- 3) Class 3. Bleaching preparations and other substances for laundry use; cleaning; polishing; scouring and abrasive preparations; soaps; perfumery, essential oils, cosmetics, hair lotions, dentifrices

2.4.2 Details of Activity

Details of this activity is listed in this chapter under different sections Overview

Government of India introduced the Geographical Indication Tag scheme or act in 2003 to promote the Arts and Culture of Indian Heritage. It's been 20 years and its success is not up to the mark. This scheme is oriented mainly to

- 1) Avoid the forgery of Indian Heritage Products
- 2) Protect the genuineness of Product Origin

All these measures concentrated on securing the interest of Artisans but there are no Mandating or measures specified in the Act made by the government. So the products manufacture and distribution is seen but not the trading. Awareness among common citizen is very less. This activity by analyzing the ongoing situation about the GI Tag has summarized the following problem statements to be solved by Engineering Solution:

- **Lack of digitization in the chain supply right from Artisans to Trader and / or Customer**
- **Lack of sophisticated mechanization in the manufacturing.**
- **Lack of face value to the artisans**
- **Type of the Visited Location** – GI TAG Products Sale Shop or GI TAG Products Creating/Manufacturing Centre Kanchipuram sarees made in Tamil Nadu India are sold in the shop name is Sansar
- **Name of the Visited Shop/Manufacturing Centre:** Sansar Centre Hypermarket
- **Address of the Visited Location:** 9 Hennur Airport Road Kothanur Main Rd next to Empire Kothanur Bengaluru Karnataka 560077

Use of Technology: The art world is constantly evolving, and the prominence of various art forms can shift over time. While Indore's cyber world may be growing, it's not necessarily a zero-sum game where one field's rise means another's decline. Art, paint, and sculpture have timeless value, and their prominence can coexist with digital advancements. In fact, the intersection of traditional art forms and technology can lead to innovative and new opportunities. Some possible reasons for a perceived decline in prominence could be: 1. Changing audience preferences 2. Shift in funding or support 3. Evolution of art forms and mediums However, art, paint, and sculpture continue to inspire, educate, and enrich society. Their value lies in their ability to evoke emotions, spark imagination, and provide a tangible connection to human experience.

Work Process in the Visited Location: ground floor has all the groceries and apparels, while first floor consists of authentic sarees from different states

Pattu Sarees: These include Godavari Pattu, Aishwarya Pattu, and Unnati Pattu. **Silk Sarees:** You can find Kanchipuram Silk sarees and other pure silk varieties.

Cotton Sarees: Carnchi Cotton sarees are available. **Designer Sarees:** They offer trendy and designer sarees.

Kanjivaram Silk Sarees: These are available in various colours.

Saree Sansar aims to provide quality collections that meet industry standards. They offer a diverse range of patterns, designs, and colors to satisfy various customer demands.

Reason for delay in Startup Implementation: First off, fear of the unknown would be a big one. A "revolutionary" idea probably means shaking things up, and that's scary! What if it fails? What if people don't get it? What if I pour all my time and energy into it and it flops? Then there's the lack of resources. Revolutionary ideas often need significant investment – money for development, marketing, maybe even building physical things. Where would that come from? I'm not exactly swimming in cash. Time would be another huge hurdle. Bringing a big idea to life takes a massive amount of time and dedication. Do I have that kind of sustained focus and energy with all the other demands of life? Let's not forget lack of expertise. My idea might touch on areas I know nothing about – engineering, law, manufacturing. I'd need a whole team of skilled people.

Sustainable Development Best Practice: GI tags require a demonstrable link between the product's unique characteristics and its place of origin. The reputation of the product must be significantly tied to its geographical source. Traditional production methods specific to the region often play a key role in GI designation. The application for a GI tag demands thorough documentation and proof of regional distinctiveness. Legal protection under the GI Act is only afforded to registered products. Many regional specialties exist without the formal recognition of a GI tag. The absence of a GI tag doesn't negate a product's regional specificity. GI registration protects both producers and consumers from imitation. The process ensures that only products genuinely originating from the region can use the GI name. Cultural significance tied to a specific region can contribute to a product's GI eligibility.

Products available in the Visited Location: Pattu Sarees: These include Godavari Pattu, Aishwarya Pattu, and Unnati Pattu. Silk Sarees: You can find Kanchipuram Silk sarees and other pure silk varieties. Cotton Sarees: Carnchi Cotton sarees are available. Designer Sarees: They offer trendy and designer sarees. Kanjivaram Silk Sarees: These are available in various colours. mehndi

Process adopted to add the integrity to Product: To ensure the Kanchipuram silk sarees sold at Sansar hypermart are authentic, you can look for the following indicators and certifications: 1. The Silk Mark: - The Silk Mark Organisation of India, sponsored by the Central Silk Board, provides a certification mark for pure natural silk textiles. - Look for the Silk Mark logo on a hangtag or sewn into the fabric. - Each Silk Mark label has a hologram and a unique number, which helps protect the interests of consumers and manufacturers. Be cautious with hangtags as they are more susceptible to duplication. 2. Geographical Indication (GI) Tag: - Kanchipuram silk sarees have been recognized as a Geographical Indication (GI) product since 2005- 2006. - This tag ensures that only sarees produced in the Kanchipuram region of Tamil Nadu can be called Kanchipuram silk sarees, thus guaranteeing a certain level of quality and preserving their unique characteristics:- Look for a GI tag

2.4.4 Overall Learning

Complete learnings of this activity are listed in this chapter under different sections
Innovative Approaches Taken

GI Tagged Products of India and their innovations

1. Andhra Pradesh

- Uppada Jamdani Sarees
- Tirupathi Laddu

2. Gujarat

- Gir Kesar Mango
- Kutch Ajrakh

3. Jammu and Kashmir

- Kashmir Saffron
- Kashmir Pashmina

4. Meghalaya

- Meghalaya Garo Textile
- Sohrai Painting

5. Uttar Pradesh

- Banaras Brocades
- Lucknow Chikan Craft

Innovation to enhance the Customer Experience in the Visited Location

- Exclusive Offerings & Events: Artisan Events: Host "meet the weaver" or similar events to connect customers with producers.
- GI Product Festivals:
- Limited Editions:
- Bundled Offers:

Research Done

GI Tagged Products of World

Here are some of the Instagram tags from five different countries

- LA (Los Angeles) - NYC (New York City)
- United Kingdom - London Life – UK Travel
- Australia – Sydney Life – Melbourne Style
- Canada – Toronto Life – Vancouver BC
- Japan – Tokyo Life – Kyoto Travel

Contribution of GI Tag to Indian Economy

Instagram hashtags () can contribute to the Indian economy in several ways: Increased Visibility for Indian Businesses

- Promoting local products
- Tourism promotion: Hashtags like IncredibleIndia, VisitIndia, or DiscoverIndia can
- Digital Marketing and E- 2.E-commerce promotion:
- Nation branding: Consistent use of hashtags like MadeInIndia or IndiaOnTheRise
- Example: A small Indian artisan uses HandmadeInIndia and IndianCrafts to showcase their products on Instagram. This increased visibility attracts international customers, leading to increased sales and contributing to the local economy.
- By leveraging Instagram hashtags effectively, Indian businesses and entrepreneurs can tap into global markets, promote their products and services, and contribute to the country's economic growth.

Lack of Interest among Customers for GI Tagged Product

1. Unique Craftsmanship:
2. Quality and Durability:
3. Cultural Significance:

Knowledge and Understanding Gained**Process to avail GI TAG for a Product**

1. **Filing the Application:** Submit Form GI-1 with a detailed statement of the case, geographical maps, product specifics, and applicant details to the Geographical Indications Registry.
2. **Preliminary Scrutiny:** The Registry checks for completeness and may ask for clarifications or corrections.
3. **Examination of the Statement of Case:** Experts evaluate the claims regarding the product's origin, characteristics, and link to the region.
4. **Show Cause Notice:** If objections arise during examination, the applicant receives a notice to respond or request a hearing.
5. **Publication in the Geographical Indications Journal:** The accepted application is published, allowing for potential opposition from interested parties.
6. **Opposition to Registration:** Any party can file an opposition within the specified timeframe, leading to a hearing and decision.
7. **Registration:** If no opposition is received or is dismissed, the GI is registered, and a certificate is issued.

Process to document the skill of GI TAG Certified Artisan

Video Documentation: Detailed recording of the entire process with expert narration

Written Manuals & Visuals: Step-by-step guides with photos and diagrams.

Interactive Training: Structured modules with hands-on practice and assessment.

Mentorship & Apprenticeship: Direct knowledge transfer from the skilled artisan.

Digital Repository: Centralized and accessible storage of all materials. To transfer the skill of a "g I tagged" artificial flower maker in Bengaluru, use detailed video documentation with expert narration, supplemented by step-by-step written manuals and visual aids. Implement interactive training with hands-on practice and assessment. Facilitate direct knowledge transfer through mentorship and apprenticeship. Store all materials in a centralized, multi-lingual (Kannada and English) digital repository for easy access and preservation. This comprehensive method ensures the unique craft and its GI tag heritage are effectively passed on.

Mandated government facilities for GI-tagged certified artisans in Bengaluru

- Low-interest loans/aid in other words financial support
- Skill upgrades like advanced training.
- Marketing platforms
- Health/pension schemes giving social security
- Easy permits imply reduced bureaucracy
- Quality support for Testing/Certification.
- Eco-friendly help sustainability
- Legal aid like GI rights protection.
- Connectivity Internet/transport.

Professional Values and Best Practices Incorporated**Offline Marketing Platform for GI TAGGED Product**

1. Government-Organized Melas and Exhibitions: Platforms where government bodies facilitate direct interaction between GI product creators and potential buyers through organized events.
2. State Government Initiatives and Handicraft Bazaars: Outlets and events supported by state governments to showcase and sell local crafts, including those with GI recognition.
3. Retail Partnerships and Specialty Stores: Collaborations with established shops that curate and sell authentic, regional, or handcrafted items, providing shelf space for GI products.
4. Tourism and Experiential Marketing: Engaging tourists by offering GI products as local specialties or souvenirs at travel destinations and through related activities.
5. Direct Sales and Community Events: Selling products directly to consumers at local gatherings, festivals, and markets, fostering direct engagement

Best Practice seen in the Visited Location: potential engineering technologies adapted at Sansar Hypermarket, listed as points with minimal explanation:

- Inventory Management Systems
- Point of Sale (POS) Systems
- Self- Checkout Systems
- Electronic Shelf Labels (ESL)

List of Beneficiaries from the Implementation: The start up idea aims to revolutionize the GI-tagged product market by leveraging technology, particularly digital footprints, to benefit various stakeholders.

Craft Connect directly connects artisans with consumers, empowering producers and fostering personal connections.

Heritage Guard provides verification and insurance, ensuring consumer peace of mind and retailer credibility.

Areas for Further Development

Livelihood of GI Tag Certified Artisan: GI tag certified artificial flower manufacturers in Bengaluru should not solely depend on those products for livelihood. Dual employment offers crucial financial stability and reduces vulnerability to market fluctuations specific to GI-tagged items. **Justification:** Relying solely on one product category, even with GI certification, can be risky due to changing consumer preferences, seasonal demand, or production challenges. Dual employment, in related crafts or other sectors, provides income diversification, economic resilience, and potentially broader skill development, ensuring a more sustainable livelihood for the artisans.

Policies needed to mandated Government Employees to promote GI Tag: Mandate Govt. Procurement: Prioritize GI products in official purchases. Dedicated GI Units: Specialized promotion teams in departments.

Engineering Technology to detect fake GI Tagged Product: Sentinel for Geographical Indications This proposed system, "GI Sentinel," aims to proactively identify and alert original artisans about potential infringements on their Geographical Indication (GI) tagged products within the digital marketplace. It employs a layered approach integrating advanced digital media monitoring and artificial intelligence. **Core Components:** 1. Comprehensive Digital Media Monitoring: Web Crawling and Scraping: Specialized crawlers will continuously index and extract product information from a wide range of online platforms, including major e-commerce marketplaces (e.g., Amazon, Flipkart, Etsy), social media sales channels (e.g., Instagram Shops, Facebook Marketplace), business-to-business (B2B) portals, and even smaller independent online stores.

Challenges and Solutions

Online Marketing Platform for GI TAGGED Product

- Dedicated E-commerce Marketplaces for GI Products: Online stores that exclusively feature and sell goods certified with a Geographical Indication tag, emphasizing their unique regional origin and authenticity to interested buyers.
- Larger E-commerce Platforms with "Handmade" or "Regional Products" Sections: Major online retail sites that have specific categories for artisanal, locally made, or geographically significant items, where GI-tagged products can be showcased with their certification highlighted.
- Social Media Marketing and E-commerce Features: Utilizing social media platforms for visual product display, storytelling about the GI origin, direct sales through integrated features, and targeted advertising to reach relevant customer segments.
- Direct-to-Consumer (D2C) E-commerce Websites
- government supported e-commerce initiative

D2C Platform for the GI Tag Certified Artisan

While a dedicated, comprehensive D2C platform solely for all GI-tagged artisans across India is not widely established, some platforms facilitate direct buying. Reason for limited exclusive platforms: Fragmentation: The large number and diverse nature of GI-tagged products and artisans make a unified platform challenging. Logistics and Scalability: Creating a nationwide D2C infrastructure for individual artisans involves complex logistical and scaling hurdles. Digital Literacy: Not all artisans possess the digital literacy required for direct online sales. Marketing and Branding: Individual artisans often lack the resources for effective D2C marketing and branding. However, platforms like GI Tagged enable consumers to buy directly from artisans, including those with GI certifications, though they aren't exclusively D2C for all GI products. These platforms often curate and market the products on behalf of

Hardware needed for the Startup Idea Implementation

Each startup idea requires specific hardware. ProvenancePal needs high-performance servers with GPUs for AI authentication and standard web infrastructure. CraftConnect focuses on web servers, databases, and secure payment processing, with basic computers for artisans.

Feedback and Continuous Development

Changes needed to enhance Sales in the Visited Location

Ensure product tags are clear, informative, and highlight the "g I tagged" aspect prominently. Consider using QR codes on tags that link to more detailed product information, recipes, or usage suggestions. Train staff to be knowledgeable about "g I tagged" products and able to answer customer queries effectively. Sampling & Demonstrations: Offer free samples or conduct in-store demonstrations of "g I tagged" products (if applicable, e.g., food items). This allows customers to experience the product firsthand and can significantly boost sales. Digital Integration: Feature "g I tagged" products prominently on the Sansar Hypermarket website and mobile app. Run targeted online advertising campaigns to local Bengaluru residents highlighting these items. Utilize social media to showcase "g I tagged" products, run contests, and engage with customers. Partnerships & Collaborations: Collaborate with local Bengaluru influencers or community figures to promote "g I tagged" products.

Startup Idea in the life cycle of GI Tagged Product

AI analyzes materials and artistic techniques to confirm the authenticity and age of GI-tagged items like sculptures and paintings. It also predicts their lifespan by monitoring their condition and environmental exposure. For painted products, AI identifies pigments and paint layers to ensure genuineness. This detailed analysis builds a digital record linked to each product, tracking its journey and verifying its origin for consumers, thus fighting counterfeiting and preserving the value of these unique goods.

Software needed for the Startup Idea Implementation

Each startup requires specific software. ProvenancePal needs e-commerce platforms, AI/ML libraries for authentication, optional blockchain, databases, and mapping tools.

CraftConnect needs multi-vendor e-commerce software, databases, payment integration, and communication tools. HeritageGuard demands AI/ML libraries for verification, mobile app frameworks, API development tools, secure databases, and optional blockchain.

GeoCraft Explorer requires e-commerce platforms, mapping/GIS software, multimedia CMS, databases, and optional VR tools. Common needs include operating systems, programming languages, version control, containerization, CI/CD, security, and testing.

2.4.5 DOCUMENTATION OF ACTIVITY

Implemented activity is listed in this chapter under different sections

Field Visit Photo Proofs

Type of the Visited Location – GI TAG Products Sale

Kanchipuram sarees made in Tamil Nadu India are sold in the shop name is Sansar

Name of the Visited Shop/Manufacturing Centre: Sansar Centre Hypermarket

Address of the Visited Location: 9 Hennur Airport Road Kothanur Main Rd
next to Empire Kothanur Bengaluru Karnataka 560077

2.5 ACTIVITY 5 - SWACHH BHARAT DRIVE

This activity encourages students to actively contribute to the Swachh Bharat Abhiyan, a flagship national mission focused on cleanliness and sanitation. As part of their participation, students organize and take part in cleanliness drives across campuses, public spaces, villages, and urban neighborhoods. They also run awareness campaigns about hygiene, solid waste management, and plastic reduction. Through these efforts, students not only help improve community hygiene standards but also internalize civic responsibility and environmental consciousness, which are crucial for national development.

2.5.1 Overview

As part of AICTE's contribution to the Swachh Bharat Mission, a cleanliness and awareness drive was conducted at Ullal, Bengaluru. Student volunteers cleaned public areas, collected and segregated waste, and educated residents and visitors on hygiene and civic responsibility. The activity aimed to create cleaner spaces while inspiring community involvement and behavioral change. By targeting both a public park and a residential- commercial locality, the initiative effectively reached diverse groups and encouraged sustainable practices. This drive reinforced the importance of youth participation in national development and environmental conservation efforts.

2.5.2 Use of technology

Technology was effectively used to support the Swachh Bharat drive at Ullal, Bengaluru. Awareness was spread through social media, WhatsApp groups, and digital posters, helping mobilize volunteers and inform the public. QR code-enabled signboards linked to online resources about waste management and hygiene practices. Volunteers used mobile apps to track tasks and progress in real time. The use of digital platforms minimized paper waste and enhanced outreach. This integration of simple digital tools helped improve the efficiency, coordination, and lasting impact of the cleanliness and awareness efforts.

2.5.3 Sustainable Development Best Practices

The drive followed key sustainable development practices such as waste segregation, plastic reduction, and promotion of home composting. Volunteers

encouraged residents and vendors to replace single-use plastics with reusable items. Digital materials were used to reduce paper waste, and educational pamphlets on recycling and eco-friendly habits were distributed digitally. Active public participation, especially in Ullal, ensured community ownership of cleanliness goals. These efforts aligned with long-term sustainability by encouraging responsible behavior, reducing environmental impact, and fostering a culture of shared responsibility for cleaner and healthier living spaces.

CHAPTER 3

PROJECT OUTCOME

3.1. Outcome in Activity 1

During my visit to the location Pallathara Apartment for the task of spreading awareness and implementing Solar Panels, It helped me understand the problems faced, what are the real world challenges in actually pursuing such matters, but the outcomes outweigh the struggles, some of the outcomes are:

reduce electricity bills, offering long-term cost savings and energy independence for homes and businesses. Environmentally, they drastically cut carbon emissions, contributing to cleaner air and a healthier planet. Furthermore, solar installations increase property value and stimulate local economies through job creation in manufacturing, installation, and maintenance, fostering a sustainable and economically robust future.

3.2. Outcome in Activity 2

During my school visit to Help Child India Foundation for AICTE project, I witnessed an innovative integration of technology in education. students were actively engaged in hands on activities showcasing their proficiency in utilizing the AICTE tools. The visit underscored the transformative impact of AICTE on both teaching and learning methodologies. I heartily thank this school principal and teachers who gave permission of our project It was a more fun and exciting to conduct this project. It was memorable moments of my project. During my time there, I helped students with various things like their studies, their education process, what to do, for what they want to become. These are some of the questions most asked by the students. In help child India most students were below the age of 14, all young minds waiting to explore the world

3.3 Outcome in Activity 3

During my visit to the Snehadeep Trust for the Disabled foundation for AICTE project, I witnessed diverse people with diverse problems of their own, even with all those problems they struggle to fit in the society by trying to contribute to the society, main aim of Snehadeep was to make even disabled people employable by teaching them survival skills like for blind people reading using Braille, making them learn how to use computers and so on

Their core mission includes providing education, healthcare, employment assistance, and social development to a broader range of individuals with disabilities. Their history also indicates that their initial goals were to assist both the visually impaired and physically challenged

3.4 Outcome in Activity 4

GI Tag is the revolutionary act done by Indian Government to promote Indian Art and Culture along with the protection of Real and Original Artisans. The act enabled the system to trace back the origin of product and prove the genuineness of the product but failed in creating awareness among the citizens or the buyers. Considering the time needed for the hand made products the price of the GI Tagged Products is approximately 2X the price of synthetic or machine-made products. The notion of consumers in recognizing and appreciating the hand made products are moving away from the citizens. The analysis of chain from Artisans to Consumers has shown the minimal digitization and mechanization in the process. The transparency in the model is less. This shows the opportunity to introduce the engineering solution to resolve the stated problem statements in the activity. Considering the scope of AICTE Activity Points, the activity is limited to understanding the existing social issue, identifying the technical gaps, interacting with public and developing the engineering solution for the problem statement. All these tasks are completed and the proofs / summary of same is attached to this report. The tasks needed to implement for 80 hours are completed. The solution is proposed by student to the concerned problem statement. Implementation of the solution is impossible in 80 hours

3.5 Outcome for Activity 5

The drive followed key sustainable development practices such as waste segregation, plastic reduction, and promotion of home composting. Volunteers encouraged residents and vendors to replace single-use plastics with reusable items. Digital materials were used to reduce paper waste, and educational pamphlets on recycling and eco-friendly habits were distributed digitally. Active public participation, especially in Ullal, ensured community ownership of cleanliness goals. These efforts aligned with long-term sustainability by encouraging responsible behavior, reducing environmental impact, and fostering a culture of shared responsibility for cleaner and healthier living spaces.

CHAPTER 4

PHOTO GALLERY

4.1 Photo Gallery of Activity 1

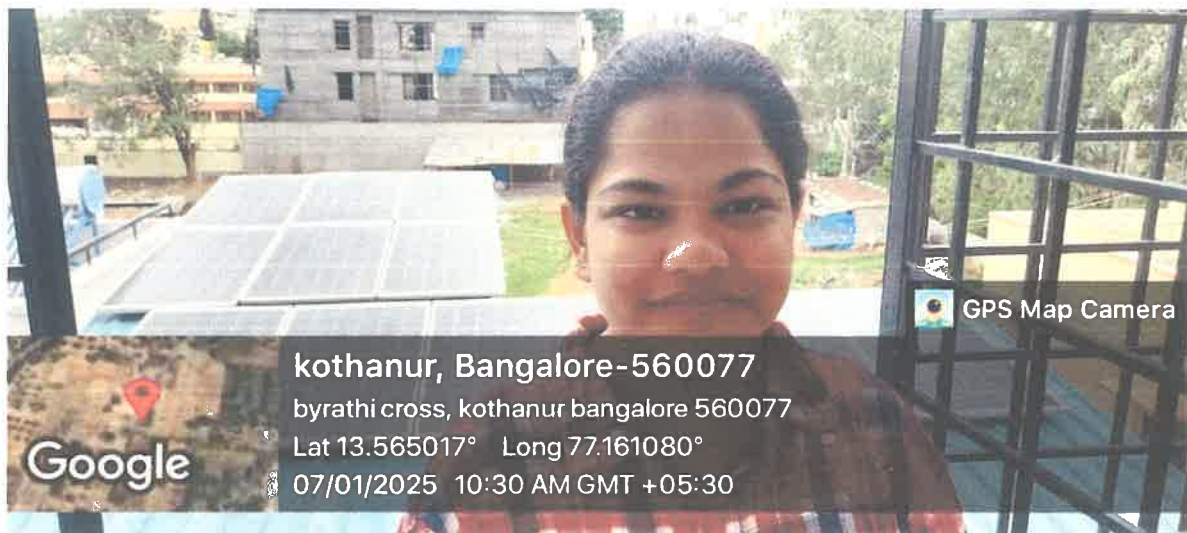


Fig 4.1 Solar Panel In Visited Location



Fig 4.2 Solar Panel In Visited Location

4.2 Photo Gallery of Activity 2



Fig 4.3 Picture in front of Snehadeep



Fig 4.4 Picture in Snehadeep



Fig. 4.5 Snehadeep's Skill Center

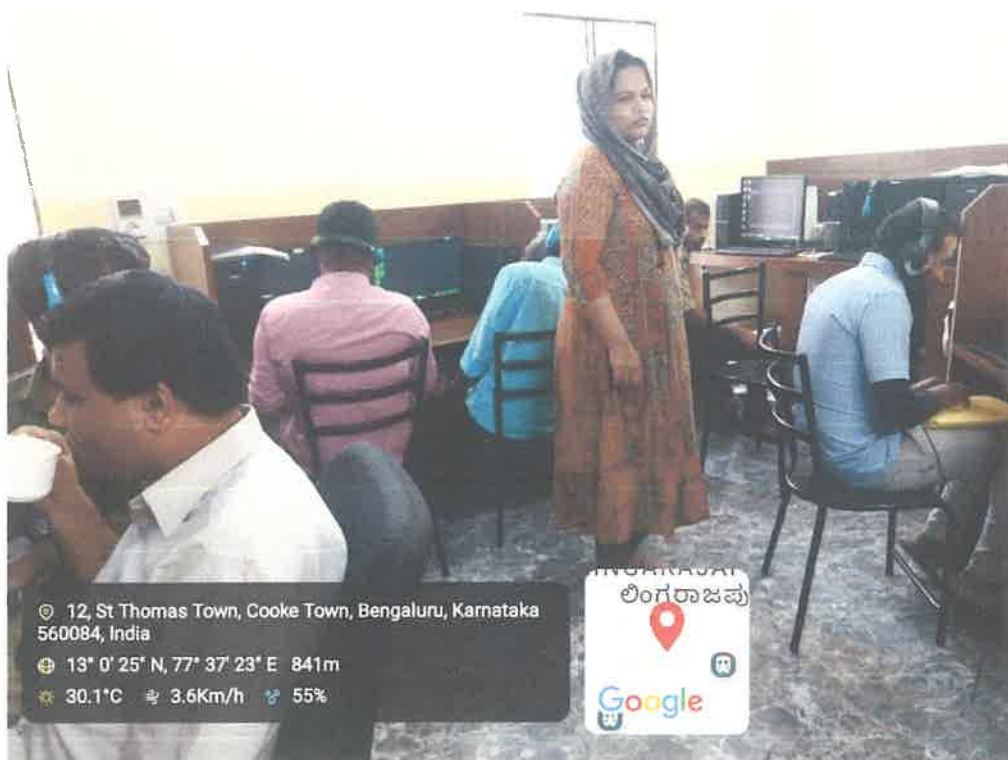


Fig. 4.6 Snehadeep's Skill Center

4.2 Photo Gallery of Activity 3



Fig 4.7 Help Child India Foundation



Fig 4.8 Help Child India Foundation Classroom

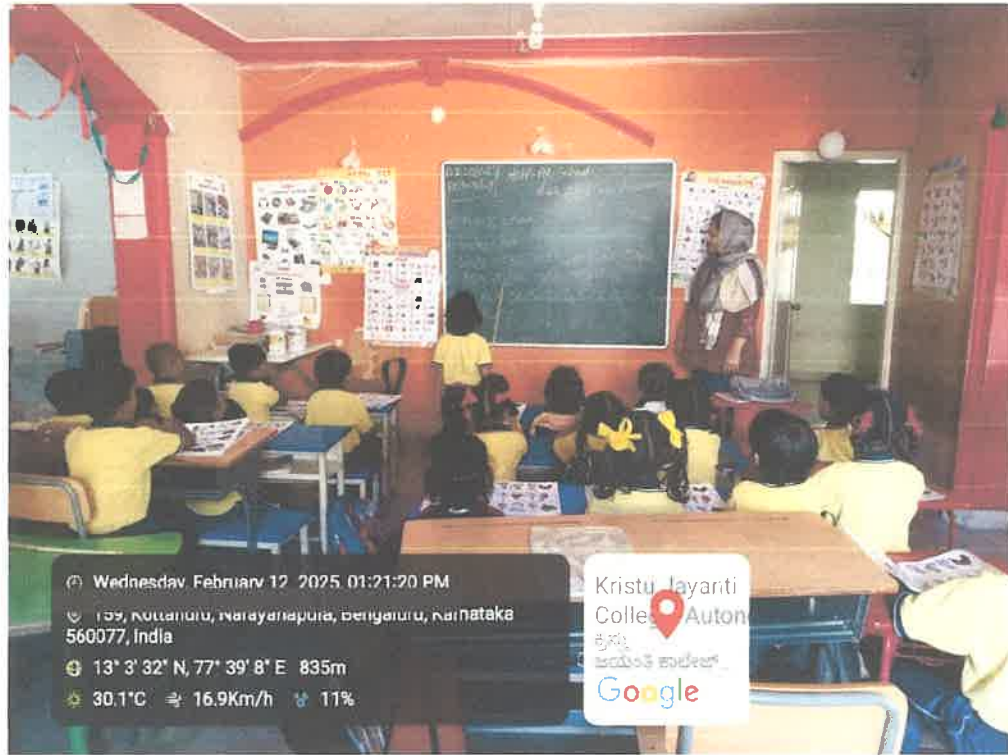


Fig 4.9 Help Child India Foundation Student's Classroom

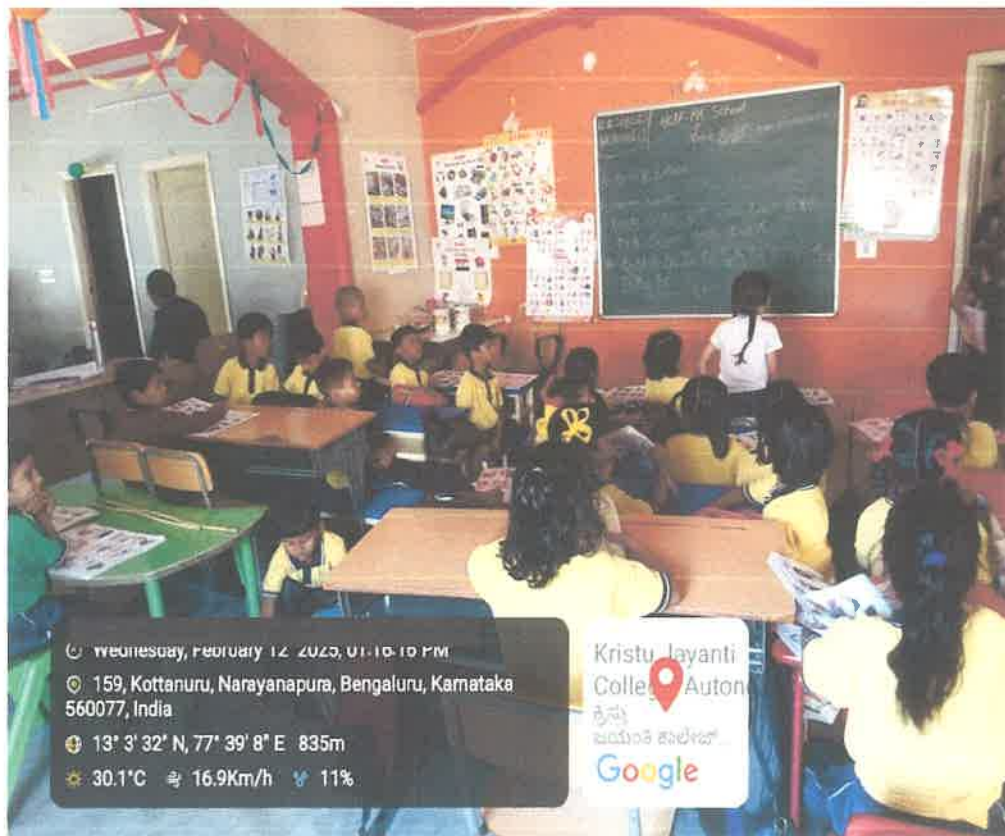


Fig 4.10 Help Child India Foundation Student's Classroom



Fig 4.11 Help Child India Foundation Student's Classroom



Fig 4.12 Help Child India Foundation Student's Classroom

4.3 Photo Gallery of Activity 4



Fig 4.13 Sansar Shop



Fig 4.14 Sansar Shop
Sarees



Fig 4.15 Sansar Shop Sarees

4.4 Photo Gallery of Activity 5



Fig 4.16 Swachh Bharat



Fig 4.17 Swachh Bharat

CHAPTER 5

CONCLUSION

The AICTE activity was done and completed by me over the span of 1 year, these experiences not only enriched with knowledge but also with confidence and a good personality, which also gave me a sense of realization that the problems which we face in our daily lives are insignificant, if we try to look beyond them and if we want to achieve something in our life, basically having a goal helps us to navigate through life easily.

Finally the following course were done by me for AICTE activities, they are

- Helping local schools to achieve good result and enhance their environment in higher/ technical/ vocational education
- Preparing an actionable business proposal for enhancing the village income
- Societal internship

I have done these in various organizations like

- Snehadeep trust for the disabled
- Help child India Foundation
- LGS Foundation
- I have invested totally 24 weeks and almost 400 hours of activities.