

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belagavi : 590018



AICTE ACTIVITY POINT PROGRAM

Report on

AICTE ACTIVITY POINT PROGRAM REPORT

Submitted in partial fulfillment of the requirement for the award of the degree of

**Bachelor of Engineering
in
Computer Science and Engineering**

by

Anish Kumar

1AY21CS028



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING ACHARYA INSTITUTE OF TECHNOLOGY

(Affiliated to Visvesvaraya Technological University, Belgaum)

2024-2025

ACHARYA INSTITUTE OF TECHNOLOGY

Acharya Dr. Sarvepalli Radhakrishnan Road, Soladevanahalli, Bangalore – 560107
(Affiliated to Visvesvaraya Technological University, Belagavi)

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING



Certificate

Certified that the Activity Point Program's Project entitled **AICTE Activity Point Program Report** is a Bonafide work carried out by **Anish Kumar (1AY21CS028)**. The activity report has been approved as it satisfies the **AICTE ACTIVITY POINT PROGRAM** requirements in partial fulfillment for the award of degree of Bachelor of Engineering in Computer Science & Engineering of Visvesvaraya Technological University, Belagavi during the year 2023-2024.

Signature of Department Coordinators 1) Varalakshmi B D 2) Bhavyashree S P	Signature of HOD Dr. Rajeev Bilagi
Signature of College Coordinator Dr Mahesh S S	Signature of Principal Dr. Marigowda C K

ACKNOWLEDGEMENT

The satisfaction that accompanies the successful completion of this AICTE activity point programme would be incomplete without the mention of the people who made it possible through constant guidance and encouragement.

I would take this opportunity to express my heart-felt gratitude to Dr. Marigowda C K, Principal of Acharya Institute of Technology for providing the necessary support to complete this activity.

I would like to thank Prof. Rajeev Bilagi, HOD, Department of Computer Science and Engineering, for his valuable support.

I wish to express my deepest gratitude and thanks to Mrs. Varalakshmi B D and Mrs Bhavyashree S P for their suggestions during this activity.

A warm thanks to all the faculties of the Department of Computer Science and Engineering, who have helped me with their views.

ACHARYA INSTITUTE OF TECHNOLOGY

SOLDEVANAHALLI, BENGALURU-107

REPORT ON AICTE ACTIVIY POINTS

NAME & USN OF THE STUDENT	ANISH KUMAR, 1AY21CS028
DEPARTMENT, SEMESTER & SECTION	Computer Science & Engineering, 8 th Semester, Section A
ENTRY TO PROGRAMMME	Regular/Lateral/Transferred from other Universities (Tick the appropriate)
ACTIVITY POINTS	100-regular/ 75- lateral entry/ 50 – transferred (Tick the appropriate)
TITLE(s)OF ACTIVITY	1 SWACHH BHARAT 2 Facilitating 100% Digitized Money Transaction 3 Food Preservation/Packing 4 Plantation drive 5 Reduction in Energy Consumption
PLACE(s)OF ACTIVITY	1 Durgamba Temple on Hessaraghatta Lake Bund 2 Abbigere, Bangalore 3 Abbigere, Bangalore 4 Gudemaranahalli, Bangalore 5 Abbigere, Bangalore
DATE(s) OFACTIVITY	1. From - 02/09/2023 To - 02/09/2023 2. From - 19/07/2024 To - 19/07/2024 3. From - 22/02/2024 To - 22/02/2024 4. From - 21/07/2024 To - 21/07/2024 5. From - 17/03/2024 To - 17/03/2024

Activity 1

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belagavi - 590018



A Report on

SWACHH BHARAT



NON CREDIT MANDATORY COURSE

Submitted in partial fulfillment of the requirement for the award of the degree of

**Bachelor of Engineering in
Computer Science and Engineering**

By

ANISH KUMAR

1AY21CS028

Under the guidance of
Mrs. VARALAKSHMI B D

Assistant Professor

Department of Computer Science and Engineering



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ACHARYA INSTITUTE OF TECHNOLOGY**

(Affiliated to Visvesvaraya Technological University, Belagavi)

2024-2025



CERTIFICATE

OF PARTICIPATION

This is to certify that Mr. Anish Kumar has successfully participated in the activity- **SWACHH BHARAT** which was conducted on **02/09/2023** as a part of AICTE activity from the Department of CSE, AIT.

Signature of Department Coordinators

- 1) Prof. Varalakshmi B D
- 2) Prof. Bhavyashree S P

ACKNOWLEDGEMENT

The satisfaction that accompanies the successful completion of this AICTE activity point program would be incomplete without the mention of the people who made it possible through constant guidance and encouragement.

I would like to take this opportunity to express my heart-felt gratitude to Dr. C.K Marigowda, Principal Acharya Institute of Technology, for providing the necessary support to complete this activity.

I would like to thank Prof. Rajeev Bilagi, HOD, Department of Computer Science and Engineering, for his valuable support.

I wish to express my deepest gratitude and thanks to Mrs. Varalakshmi B D and Mrs. Bhavyashree S P, Assistant Professor Department of CSE, for their suggestions during this activity.

A warm thanks to all the faculties of the Department of Computer Science and Engineering, who have helped me with their views.

I wish to express my gratitude to Panchayat, of Hesaraghatta district for encouraging us to fulfill our responsibility.

CHAPTER 1

OBJECTIVE

Spreading Public Awareness for Positive Change

Raising public awareness is essential for tackling significant issues and encouraging meaningful change. Engaging in open conversations, sharing accurate information, and utilizing social media platforms allow us to reach a larger audience and encourage collective efforts. Gaining knowledge and educating others on important topics enable individuals to make informed choices and collaborate towards building a more aware, compassionate, and sustainable society.

To effectively spread awareness, a variety of activities can be implemented. Hosting educational workshops, seminars, and webinars can provide valuable insights and engage the public on key issues. Distributing brochures, flyers, and posters helps convey important messages to a wider audience. Organizing community gatherings, rallies, and awareness campaigns fosters public engagement and participation.

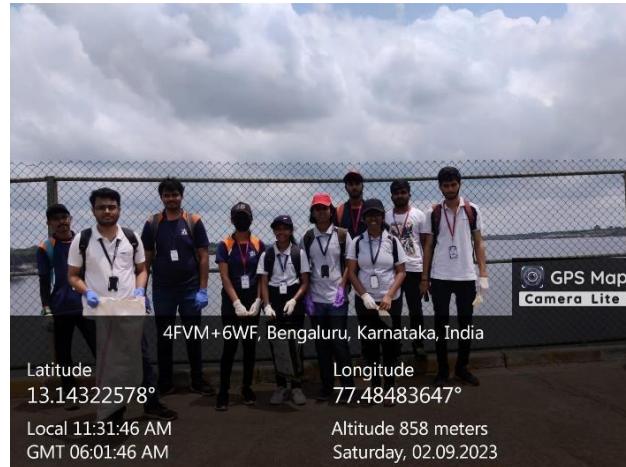
In this initiative, awareness was raised through direct action rather than simply advising or encouraging others. By actively engaging in cleanup efforts, a visible example was set for the community, demonstrating that anyone can take the initiative to improve their surroundings and contribute to a healthier environment.

Importance of a Clean Society

Maintaining cleanliness in our surroundings is vital for several reasons. A clean environment enhances public health by reducing the spread of diseases and improving overall well-being. Additionally, it contributes to a more pleasant and visually appealing community, making residential and public spaces more enjoyable for both residents and visitors. A well-maintained environment also fosters a sense of responsibility and pride, encouraging individuals to take an active role in preserving their surroundings.

By participating in cleanliness initiatives and promoting hygiene, individuals can effectively spread awareness in various ways. Setting an example through action inspires others to adopt

responsible waste management practices. Such efforts also encourage discussions about environmental conservation, highlighting the impact of pollution and litter on ecosystems. Through continuous community involvement, a cleaner and healthier environment can be achieved for present and future generations.



CHAPTER 2

ABOUT THE PLACE

Hesaraghatta Lake is a man-made reservoir located in the state of Karnataka, India, on the northwestern outskirts of Bangalore, approximately 20 kilometers from the city center. The lake has been a significant water body for Bangalore, originally serving as a primary drinking water source and an irrigation facility for the surrounding agricultural regions. Over time, the lake has transformed into an important ecological and recreational hub, attracting nature lovers, ornithologists, and conservationists.

Despite its historical importance and rich biodiversity, Hesaraghatta Lake faces numerous environmental threats such as water pollution, encroachment, and decreasing water levels due to rapid urbanization. Conservation efforts are being made to restore its ecological balance and preserve its status as a natural and cultural landmark in Bangalore.

Hesaraghatta Lake was built in 1894 as part of the Chamarajendra Water Works project under British rule. The lake was originally designed to supply drinking water to Bangalore, a rapidly growing city that faced water shortages due to its location on an elevated plateau.

The lake was fed by the Arkavathi River, which ensured a steady water supply for both drinking and agricultural purposes. Over the years, Hesaraghatta became an essential part of Bangalore's water management system, playing a vital role in maintaining the city's water security before the advent of modern pipeline networks and reservoirs like the Cauvery water supply system.

Although Hesaraghatta Lake is no longer the primary source of drinking water, its historical importance remains significant. The lake stands as a reminder of Bangalore's early urban planning efforts, showcasing how past generations tackled water management challenges.

Hesaraghatta Lake is **not just a water reservoir**—it is a **thriving ecosystem** that supports a wide range of flora and fauna. The lake and its **surrounding wetlands** provide an essential habitat for **migratory birds, aquatic species, and local wildlife**.

Key Ecological Features:

- Birdwatching Haven – The lake attracts over 200 species of birds, including herons, egrets, pelicans, kingfishers, and cormorants. During migration seasons, rare species arrive, making the lake a hotspot for ornithologists and nature photographers.
- Wetland Ecosystem – The marshy and grassy areas around the lake serve as breeding grounds for birds, small mammals, and aquatic species. These wetlands also play a vital role in filtering pollutants and maintaining the lake's ecological balance.
- Flora and Fauna – The region around Hesaraghatta consists of grasslands, shrubs, and aquatic vegetation, supporting a wide variety of wildlife, including frogs, butterflies, and reptiles.
- Groundwater Recharge – The lake plays a crucial role in replenishing the groundwater levels in the surrounding areas, contributing to sustainable water management.
- The rich biodiversity of Hesaraghatta Lake makes it a valuable ecological zone that requires careful preservation.



CHAPTER 3

CONDUCTION OF THE ACTIVITY

Taking part in this environmental initiative was a rewarding experience, allowing us as students to contribute meaningfully to the conservation of nature. Hesaraghatta Lake, a well-known public attraction, has been facing increasing pollution and waste accumulation due to frequent human activities. As one of Bangalore's historically and ecologically significant water bodies, it has suffered from continuous littering, neglect, and lack of proper waste disposal mechanisms. The accumulation of plastic, food waste, and other non-biodegradable materials has severely affected both the land and water ecosystems, posing a threat to local wildlife and biodiversity.

Recognizing the urgency of the situation, our team undertook a clean-up initiative to restore and safeguard the lake's surroundings. This activity was not just an act of service but also a learning experience that emphasized the importance of community involvement in environmental preservation. Through teamwork, careful planning, and active participation, we were able to make a visible impact on the area.



Organizing the Clean-Up Drive

The cleanup was conducted through systematic planning and execution. Before beginning, participants were divided into several teams, each assigned to specific zones around the lake to ensure that all areas were covered efficiently. The teams included:

- Waste Collection Team – Focused on picking up plastic, paper waste, and non-biodegradable materials.

- Water Cleanup Team – Removed floating waste and pollutants near the lake's shore.
- Sorting & Disposal Team – Separated collected waste into recyclable and non-recyclable categories for proper disposal.
- Supervision & Safety Team – Ensured that all participants followed safety measures and guidelines.

Precautionary measures were strictly followed throughout the activity, with faculty and organizers overseeing the event to ensure proper waste disposal techniques and participant safety. All students were provided with gloves, garbage bags, and cleaning tools to facilitate the process.

The teams worked diligently to remove waste that had accumulated over time. Plastic bottles, wrappers, food containers, and other pollutants were cleared from walking trails, picnic areas, and the lake's edges. It was alarming to see the extent of pollution, but it also reinforced the need for more such initiatives to maintain public spaces in their natural, unpolluted state.

Impact & Key Learnings

This activity served as a practical lesson on the importance of environmental responsibility. While the clean-up effort lasted only a few hours, its impact was substantial—not only in improving the lake's condition but also in raising awareness among visitors and the local community.

Positive Outcomes:

- Immediate Improvement in Cleanliness – The removal of waste significantly improved the aesthetic appeal and hygiene of the area.
- Increased Awareness Among Visitors – Many passersby showed interest in our efforts, realizing the importance of responsible waste disposal.

- Reinforcement of Environmental Values – The experience reinforced the idea that small efforts collectively make a big difference in environmental conservation.
- Encouraging Sustainable Habits – Participants learned the importance of reducing plastic usage, recycling, and encouraging eco-friendly habits.

It was evident that keeping public places clean is not solely the responsibility of authorities but also of every individual who uses these spaces. Through this activity, we realized that cleaning is just one part of the solution—the real challenge is to prevent pollution in the first place.



CONCLUSION

As natural resources are finite and essential for future generations, their effective management has become a global concern. Ensuring that resources remain available for future use requires the adoption of efficient waste management strategies across different waste types, including medical, household, and industrial waste. This study aims to assess public awareness regarding waste management by analyzing people's understanding, attitudes, and behaviors towards proper waste disposal and its environmental impact.

Research Approach

The study utilizes survey-based research to evaluate knowledge and awareness levels regarding waste management. The survey includes questions focusing on waste disposal practices, environmental awareness, and public behavior. The participants in the study were pharmacy students receiving laboratory training in the healthcare field, providing insights into how individuals involved in scientific and medical disciplines perceive waste management. To ensure the reliability and consistency of the questionnaire, internal consistency reliability tests were applied. Additionally, statistical methods such as Pearson correlation, t-tests, and ANOVA (Analysis of Variance) were used to analyze differences in awareness and behavior among various groups based on demographics, educational background, and environmental organization membership.

The study highlights that educational background, gender, and environmental engagement significantly influence waste management awareness and behavior. It also emphasizes the need for greater public education programs, policies, and awareness campaigns to further improve waste management practices. Encouraging active participation in environmental organizations and incorporating waste management training into educational curricula can lead to more sustainable behaviors and improved waste disposal practices.

Ultimately, this research reinforces the idea that raising public awareness and promoting responsible waste management are key to protecting the environment and ensuring the sustainable use of natural resources for future generations.

Activity 2

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belagavi - 590018



A Report on

Facilitating 100% Digitized Money Transaction



NON CREDIT MANDATORY COURSE

Submitted in partial fulfillment of the requirement for the award of the degree of

Bachelor of Engineering in Computer Science and Engineering

By

ANISH KUMAR

1AY21CS028

Under the guidance of
Mrs. VARALAKSHMI B D

Assistant Professor

Department of Computer Science and Engineering



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING ACHARYA INSTITUTE OF TECHNOLOGY

(Affiliated to Visvesvaraya Technological University, Belagavi)

2024-2025



CERTIFICATE

OF PARTICIPATION

This is to certify that Mr. Anish Kumar has successfully participated in the activity **Facilitating 100 Digitized Money Transaction** which was conducted on **19/07/2024** as a part of AICTE activity from the Department of CSE, AIT.

Signature of Department Coordinators

- 1) Prof. Varalakshmi B D
- 2) Prof. Bhavyashree S P

ACKNOWLEDGEMENT

The satisfaction that accompanies the successful completion of this AICTE activity point program would be incomplete without the mention of the people who made it possible through constant guidance and encouragement.

I would like to take this opportunity to express my heart-felt gratitude to Dr. C.K Marigowda, Principal Acharya Institute of Technology, for providing the necessary support to complete this activity.

I would like to thank Prof. Rajeev Bilagi, HOD, Department of Computer Science and Engineering, for his valuable support.

I wish to express my deepest gratitude and thanks to Mrs. Varalakshmi B D and Mrs. Bhavyashree S P, Assistant Professor Department of CSE, for their suggestions during this activity.

A warm thanks to all the faculties of the Department of Computer Science and Engineering, who have helped me with their views.

CHAPTER 1

OBJECTIVE

The primary objective of the digital money awareness campaign in Abbigere, Bangalore was to encourage the adoption of digital financial practices, aiming to enhance financial inclusion and economic empowerment within the community. Given the increasing global shift towards cashless transactions, this initiative sought to educate, engage, and empower the local population by providing them with the necessary knowledge and resources to transition smoothly to digital financial systems.

By addressing various aspects of digital finance, the campaign aimed to promote safer, more efficient, and more convenient financial transactions while reducing the risks associated with cash handling. The long-term vision was to instill financial literacy and encourage a shift in mindset, making digital payments a preferred and habitual mode of transaction for individuals and businesses alike.



Specific Goals of the Initiative

To achieve its broader mission, the campaign was structured around seven key objectives, each addressing a critical aspect of digital financial empowerment.

1. Promotion of Digital Money Usage

The campaign aimed to increase the use of digital payment methods such as UPI, mobile wallets, and net banking among residents and businesses in Abbigere. It demonstrated how cashless transactions can be faster, safer, and more convenient compared to traditional cash handling. Local businesses were encouraged to implement digital payment options to improve efficiency and customer convenience.

2. Raising Awareness on Digital Transactions

Educating people on the advantages of using digital money, including its role in reducing theft, fraud, and cash-related mishandling was a core objective. The campaign highlighted how digital transactions contribute to greater financial transparency and help in tracking expenses. Information was shared about government initiatives supporting digital payments, such as Digital India and BHIM UPI adoption programs.

3. Enhancing Digital Literacy

Digital literacy is crucial for enabling people to use financial technologies effectively. The campaign provided informational pamphlets, workshops, and one-on-one guidance to explain:

- How to **set up and use mobile banking apps**
- How to **link bank accounts with UPI and digital wallets**
- How to **ensure cybersecurity while making digital transactions**

4. Encouraging Behavioral Change

A major challenge in adopting digital payments is breaking the habit of using cash. The campaign aimed to encourage a long-term shift by demonstrating:

- How digital payments **simplify everyday transactions**
- How small businesses and local vendors **benefit from digital payments**
- The safety and **ease of tracking expenses without carrying physical cash**

5. Engaging the Community

The campaign focused on building trust and motivating residents to actively participate in the digitaleconomy.

Efforts were made to foster open discussions to address concerns about digital payments and resolve_misconceptions.

Community leaders, shop owners, and local influencers were involved to spread awareness effectively.

6. Supporting Economic Growth

The campaign encouraged **local businesses** to embrace digital payment methods, which:

- Improves financial security by reducing dependency on cash
- Increases customer convenience as more people prefer cashless transactions
- Prevents revenue loss due to counterfeit currency or cash mismanagement

7. Spreading Awareness on Financial Security

One of the key focuses was educating people about digital security and the safe use of online transactions.

Best practices were taught to prevent fraud, phishing scams, and unauthorized access to bank accounts.

Guidance was provided on recognizing secure payment platforms and avoiding the sharing of sensitive financial details.



CHAPTER 2

ABOUT THE PLACE

Abbigere is a rapidly developing locality situated in the northern part of Bangalore, Karnataka. It is approximately 15 kilometers from the city center and falls within the Greater Bangalore region. Over the years, Abbigere has transformed from a predominantly rural settlement into a semi-urban neighborhood, witnessing significant infrastructural and commercial growth. Despite urbanization, it still retains some characteristics of a suburban area, with a mix of residential layouts, small businesses, and patches of greenery.

Demographics and Community Structure

The population of Abbigere consists of a diverse mix of people, including local Kannada-speaking residents, working professionals, students, and migrants from different parts of the state and country. The presence of a growing number of educational institutions, healthcare facilities, and commercial establishments has led to an influx of people seeking better opportunities in the area. The locality has a strong sense of community, with traditional values coexisting alongside modern influences brought in by younger professionals and students.

Economic and Commercial Growth

Abbigere has experienced steady economic growth, driven by the expansion of local businesses, retail stores, and service sectors. Small-scale industries, local markets, and trade centers contribute to the economic activities in the region. The presence of banking institutions, grocery stores, and shopping centers has made it a self-sustained locality, reducing the dependency of residents on the city center for everyday needs. However, despite these advancements, cash transactions still dominate local businesses, which is why initiatives promoting digital money adoption are essential for financial modernization.

Educational and Technological Influence

With the growing emphasis on education, Abbigere has several schools, colleges, and coaching centers catering to students from various backgrounds. Many students residing in the area commute to reputed institutions in Bangalore. The younger population, being more technologically inclined, plays a crucial role in influencing the adoption of digital financial services. Digital literacy programs conducted in the region have the potential to create a long-

term impact, encouraging the transition from cash-based transactions to digital payment methods.

Infrastructure and Connectivity

Abbigere is well-connected to key areas of Bangalore through major roads and public transportation services. The locality has access to frequent bus services, auto-rickshaws, and cab facilities that link it to important commercial and residential hubs such as Yeshwanthpur, Jalahalli, and Mathikere. The upcoming metro expansion and ongoing road development projects are expected to enhance connectivity further, making Abbigere an even more accessible and well-integrated part of Bangalore's urban landscape.

Cultural and Social Aspects

Abbigere has a vibrant cultural environment where traditional practices and modern lifestyles blend seamlessly. Local festivals such as Ugadi, Deepavali, and Sankranti are celebrated with enthusiasm, bringing together the community for various social and religious activities. The presence of temples, parks, and community centers fosters social engagement among residents. At the same time, the younger generation is increasingly adopting digital lifestyles, which presents an opportunity to bridge the gap between traditional financial habits and modern digital transactions.

Challenges in Financial Modernization

Despite its rapid growth, Abbigere still faces challenges in adopting cashless transactions fully. Many small business owners and elderly residents are unfamiliar with digital payment systems, leading to hesitation in transitioning from cash-based transactions. Limited digital literacy, concerns about transaction security, and a lack of awareness about the benefits of digital money are some of the barriers preventing complete financial transformation. The introduction of digital literacy programs and awareness campaigns aims to address these challenges by educating the community on the advantages of adopting digital financial solutions.

CHAPTER 3

CONDUCTION OF THE ACTIVITY

The initiative to promote digital money in Abbigere, Bangalore, was carried out through a well-structured and organized approach. The campaign was designed to ensure maximum engagement and participation from the local community. A team of dedicated students led the effort, working closely with residents, shop owners, and small business operators to create awareness about the benefits of digital payments. The activity was conducted in multiple phases, including planning, execution, engagement, and evaluation to ensure a systematic approach to promoting financial inclusion.

Planning and Preparation

Before launching the campaign, a detailed plan was developed to outline the objectives, strategies, and methods for promoting digital money. The team conducted preliminary research on the current financial habits of the residents and businesses in Abbigere. This included surveys and informal discussions to assess their familiarity with digital payments and the challenges they faced in adopting them.

Once the research was completed, educational materials such as brochures, pamphlets, and posters were prepared to explain the advantages of digital transactions, security measures, and the ease of using digital payment methods. Additionally, a strategy was developed to address potential concerns related to digital fraud, transaction failures, and the accessibility of digital banking services.

Implementation and Awareness Campaign

The campaign was launched at key locations within Abbigere, including marketplaces, residential areas, small businesses, and public spaces. The implementation phase involved direct interaction with the community to encourage the adoption of digital financial practices. The activities conducted as part of this initiative included:

1. Demonstrations of Digital Payment Methods

One of the most effective strategies used in the campaign was live demonstrations of various digital payment methods, including UPI transactions, mobile wallets, and net banking. Residents were shown how to use applications like Google Pay, PhonePe, and Paytm for

making payments and transferring money. Special emphasis was placed on teaching elderly residents and small business owners who were less familiar with digital financial tools.

2. Engaging Local Businesses and Vendors

Shopkeepers, street vendors, and small business owners were encouraged to adopt digital payment systems by explaining the advantages of cashless transactions. The team assisted businesses in setting up digital payment platforms, linking their bank accounts, and understanding how to maintain transaction records. Business owners who were hesitant were reassured by highlighting the security and convenience of digital transactions.

3. Distribution of Educational Materials

Pamphlets and brochures containing step-by-step guides on using digital money were distributed across Abbigere. These materials covered topics such as how to register for UPI services, how to link bank accounts with mobile wallets, and how to recognize and prevent online financial fraud. The goal was to ensure that people had a reference to help them navigate digital transactions even after the campaign ended.

4. Conducting Interactive Sessions and Public Discussions

To engage the community further, interactive sessions were organized in small groups where residents could ask questions and clear doubts about digital payments. Common concerns, such as transaction security, internet dependency, and fraud prevention, were addressed through discussions with financial experts and student volunteers. These sessions helped in dispelling myths and encouraging people to trust digital payment systems.

5. Providing Hands-On Assistance

Many residents and business owners required one-on-one assistance to set up their digital payment systems. The team members personally guided individuals through the process of installing banking and payment applications, linking their accounts, and making their first transactions. By offering personalized support, the campaign ensured that participants gained confidence in using digital payment methods.

6. Spreading Awareness Through Word of Mouth and Community Leaders

The involvement of local influencers and community leaders played a crucial role in encouraging residents to adopt digital payments. Religious leaders, business association members, and prominent figures in the community were briefed about the importance of digital transactions. Their endorsement helped gain the trust of the residents, making them more open to trying out digital payment solutions.

Challenges Faced and Overcoming Them

Despite the structured approach, the campaign faced several challenges in convincing some individuals to shift from cash-based transactions to digital payments. The main challenges included:

- **Resistance to Change:** Some residents, especially older individuals, were reluctant to change their traditional way of handling money. The campaign addressed this by demonstrating the security and ease of digital transactions.
- **Limited Awareness and Digital Literacy:** Many people were unaware of how digital payment systems worked. The team provided patient, step-by-step guidance to educate them.
- **Concerns About Cybersecurity:** Fear of fraud and online scams was a major deterrent. To counter this, the campaign emphasized security measures such as two-factor authentication and safe banking practices.
- **Lack of Internet Access or Smartphones:** A small section of the population did not have access to internet-enabled smartphones. In such cases, alternative solutions such as SMS-based banking and assisted transactions were suggested.

Impact and Observations

The campaign had a notable impact on the financial behavior of the residents of Abbigere. Many individuals and businesses adopted digital payment methods as a result of the awareness drive. The key outcomes observed included:

- A significant increase in the number of shopkeepers and vendors using QR code-based payments.
- A rise in UPI transactions among younger individuals and working professionals.
- Greater awareness about financial security and fraud prevention.
- Positive feedback from community members who found digital transactions more convenient and time-saving.

CONCLUSION

The promotion of digital money in Abbigere, Bangalore, has been a significant step toward fostering financial inclusion and encouraging the adoption of modern, cashless transactions. Through a well-structured campaign involving awareness programs, live demonstrations, and personalized assistance, the initiative successfully introduced residents and businesses to the benefits of digital payments. By addressing concerns related to security, accessibility, and usability, the campaign helped overcome many of the barriers that initially prevented people from embracing digital financial solutions.

One of the key takeaways from the initiative was the positive shift in financial behavior among the community members. Many shopkeepers, vendors, and individuals started incorporating digital payment methods into their daily transactions, contributing to a safer, more efficient, and transparent financial ecosystem. The campaign also highlighted the importance of digital literacy, ensuring that individuals not only learned how to use digital payment systems but also understood the best practices for secure and responsible financial management.

Despite some initial resistance and technological barriers, the initiative demonstrated that persistent education, hands-on engagement, and community involvement are crucial for driving meaningful change. The response from the residents of Abbigere was encouraging, with many pledging to continue using digital financial services and promoting their benefits within their social circles.

Moving forward, it is essential to sustain and expand such efforts, ensuring that more individuals, especially those in underserved communities, gain access to digital financial tools. Continued awareness campaigns, government incentives, and infrastructure improvements will further strengthen the transition toward a fully digital economy. Through collective efforts, initiatives like this can help bridge the digital divide and empower communities with the knowledge and resources needed to thrive in an increasingly cashless world.

Activity 3

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belagavi - 590018



A Report on

Food Preservation/Packing



NON CREDIT MANDATORY COURSE

Submitted in partial fulfillment of the requirement for the award of the degree of

Bachelor of Engineering in Computer Science and Engineering

By

ANISH KUMAR

1AY21CS028

Under the guidance of
Mrs. VARALAKSHMI B D

Assistant Professor

Department of Computer Science and Engineering



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING ACHARYA INSTITUTE OF TECHNOLOGY

(Affiliated to Visvesvaraya Technological University, Belagavi) 2024-2025



CERTIFICATE

OF PARTICIPATION

This is to certify that Mr. Anish Kumar has successfully participated in the activity **Food Preservation/Packing** which was conducted on **22/02/2024** as a part of AICTE activity from the Department of CSE, AIT.

Signature of Department Coordinators

- 1) Prof. Varalakshmi B D
- 2) Prof. Bhavyashree S P

ACKNOWLEDGEMENT

The satisfaction that accompanies the successful completion of this AICTE activity point program would be incomplete without the mention of the people who made it possible through constant guidance and encouragement.

I would like to take this opportunity to express my heart-felt gratitude to Dr. C.K Marigowda, Principal Acharya Institute of Technology, for providing the necessary support to complete this activity.

I would like to thank Prof. Rajeev Bilagi, HOD, Department of Computer Science and Engineering, for his valuable support.

I wish to express my deepest gratitude and thanks to Mrs. Varalakshmi B D and Mrs. Bhavyashree S P, Assistant Professor Department of CSE, for their suggestions during this activity.

A warm thanks to all the faculties of the Department of Computer Science and Engineering, who have helped me with their views.

CHAPTER 1

INTRODUCTION

In an effort to promote environmental awareness and encourage sustainable living, a group of dedicated college students embarked on a transformative journey to Abbigere, a vibrant locality in Bangalore. Recognizing the growing issue of plastic pollution and its harmful impact on the environment, the team initiated an awareness campaign advocating for the use of paper bags over plastic. Their goal was not only to reduce plastic consumption but also to instill a lasting sense of responsibility among community members regarding sustainable choices.

Abbigere, known for its unique mix of urban vibrancy and natural beauty, provided the ideal setting for this initiative. The campaign was designed to educate residents about the detrimental effects of plastic waste, particularly its role in pollution, soil degradation, and harm to wildlife. By introducing eco-friendly paper bags as a viable alternative, the students aimed to encourage a shift towards a greener lifestyle.

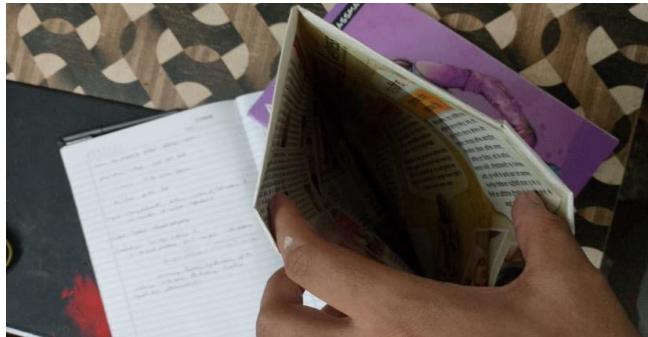
Beyond simply replacing plastic bags with paper, the initiative sought to address broader environmental concerns, including the importance of afforestation. Trees play a crucial role in maintaining ecological balance, absorbing carbon dioxide, improving air quality, and supporting biodiversity. As part of the campaign, informational materials were distributed alongside paper bags to educate the community about the benefits of tree planting and conservation.

A key focus of this initiative was community engagement and participation. The students actively interacted with local residents, engaging in discussions about sustainable practices and emphasizing the importance of individual contributions to environmental conservation. By fostering grassroots involvement, the campaign aimed to create a long-term cultural shift toward sustainability, ensuring that the message extended beyond a one-time event.

The enthusiasm and commitment displayed by the students in this endeavor highlight the power of collective action in driving meaningful change. Through their efforts, they not only provided an immediate alternative to plastic bags but also laid the groundwork for a more

sustainable future in Abbigere. The campaign serves as an inspiring example of how small, community-led initiatives can have a significant impact on environmental preservation.

By taking a stand against plastic pollution and advocating for afforestation, the initiative in Abbigere represents a step towards a cleaner, healthier planet. It reinforces the idea that every action, no matter how small, contributes to the greater goal of environmental sustainability.



CHAPTER 2

OBJECTIVE

The primary objective of the environmental awareness campaign in Abbigere, Bangalore, was to advocate for sustainable practices by replacing plastic bags with eco-friendly paper bags. This initiative aimed to promote afforestation, reduce plastic pollution, and foster long-term environmental responsibility within the community. By educating residents and actively involving them in the campaign, the project sought to create a lasting impact on local habits and attitudes towards sustainability.

Specific Objectives:

1. Paper Bag Distribution – Reducing Plastic Dependency

- The campaign's foremost goal was to **distribute eco-friendly paper bags** as a sustainable alternative to plastic.
- By making paper bags **easily accessible**, the initiative aimed to **reduce the consumption of plastic bags** and encourage their **gradual replacement** in daily use.
- Each paper bag distributed carried a **message encouraging residents** to adopt sustainable choices and **minimize plastic waste**.

2. Raising Awareness on Plastic Pollution

- The initiative sought to educate the local community about the harmful environmental effects of plastic usage.
- Awareness sessions highlighted issues such as land and water pollution, harm to wildlife, and the long decomposition time of plastic waste.
- Through interactive discussions, residents were encouraged to make responsible choices by opting for biodegradable and recyclable materials.

3. Advocating for Afforestation and Ecological Conservation

- The campaign emphasized the critical role of afforestation in addressing climate change, improving air quality, and supporting biodiversity.
- Informational pamphlets were distributed alongside the paper bags, explaining the importance of trees in maintaining ecological balance.

- Residents were encouraged to support local afforestation efforts, including tree planting initiatives in their neighborhoods.

4. Encouraging Behavioral Change in the Community

- A key goal was to inspire a shift in consumer behavior, encouraging individuals to adopt sustainable habits.
- The initiative sought to make paper bag usage a normal practice, reducing the community's reliance on plastic bags.
- Through consistent messaging and engagement, the campaign aimed to make sustainability an integral part of daily life.

5. Strengthening Community Engagement and Participation

- The campaign actively involved residents of all ages, ensuring broad participation and engagement.
- By creating a dialogue about sustainability, the initiative aimed to build a sense of shared responsibility in environmental conservation.
- Encouraging local participation in future sustainability projects, the initiative sought to lay the foundation for continued efforts in waste management and afforestation.

6. Establishing a Model for Future Environmental Initiatives

- The success of this campaign was designed to serve as an example for similar sustainability projects in other areas.
- The initiative aimed to inspire further community-driven environmental efforts, reinforcing the importance of local action in achieving global sustainability goals.



CHAPTER 3

ABOUT THE PLACE

Abbigere is a vibrant locality situated in the northern part of **Bangalore, Karnataka**. Over the years, it has transformed from a semi-urban region into a rapidly developing residential and commercial hub. Despite urban expansion, Abbigere retains a **blend of natural greenery and city life**, making it an ideal place for **environmental conservation efforts** such as the promotion of paper bags and afforestation initiatives.

1. Geographical and Environmental Aspects

- Geographical Location: Abbigere is strategically located near key areas such as Vidyaranyapura, Jalahalli, and Yeshwanthpur, making it well-connected to other parts of Bangalore.
- Climate and Weather: Like the rest of Bangalore, Abbigere experiences a moderate climate throughout the year, with pleasant winters, warm summers, and a monsoon season that supports lush greenery.
- Natural Green Cover: Despite ongoing urbanization, Abbigere still has patches of green spaces, parks, and tree-lined streets, which contribute to its relatively clean air and scenic beauty.

2. Urbanization and Environmental Concerns

- Growing Urbanization: Due to its proximity to industrial zones and IT hubs, Abbigere has seen a rise in population and infrastructure development.
- Plastic Waste Issue: Like many urbanizing areas, Abbigere has faced an increase in plastic usage and waste disposal challenges, making it essential to introduce sustainable practices.
- Afforestation Needs: With growing construction activities, there is a need to preserve and expand green cover to maintain ecological balance and improve air quality.

3. Community and Lifestyle

- Diverse Population: Abbigere is home to a mix of working professionals, students, and local business owners, creating a dynamic community.
- Local Markets and Businesses: The area has many small-scale vendors, street markets,

and grocery stores where plastic bag usage is prevalent, highlighting the importance of encouraging sustainable alternatives like paper bags.

- Educational Institutions: Presence of schools and colleges makes it an ideal location for student-led initiatives, such as the paper bag promotion campaign, which can help raise awareness among younger generations.

4. Why Abbigere Was Chosen for the Campaign

The decision to conduct the **paper bag promotion campaign** in Abbigere was driven by multiple factors:

- High Plastic Consumption: With numerous local vendors and commercial establishments, plastic bags are widely used, contributing to environmental pollution.
- Community Engagement Potential: The diverse and active population provided an opportunity to spread awareness effectively.
- Green Preservation Needs: The ongoing urban expansion posed a risk to existing green spaces, making afforestation advocacy crucial.
- Strategic Location: As a well-connected area, Abbigere serves as a model for sustainability initiatives, encouraging surrounding localities to adopt similar eco-friendly practices.



CHAPTER 4

CONDUCTION OF THE ACTIVITY

The environmental awareness campaign promoting paper bags over plastic in Abbigere, Bangalore, was executed through a structured and well-coordinated approach. The initiative involved extensive planning, team organization, community participation, and educational outreach, ensuring its effectiveness and long-term impact.

1. Planning and Preparation

Before the execution of the activity, a **detailed action plan** was developed to ensure smooth implementation.

A. Research and Pre-Assessment

- The team conducted preliminary research to assess the level of plastic consumption in Abbigere.
- Discussions with local vendors, shopkeepers, and residents provided insights into the extent of plastic bag usage and the community's willingness to adopt sustainable alternatives.
- The importance of afforestation as a complementary aspect of sustainability was also identified.

B. Resource Collection and Paper Bag Procurement

- Eco-friendly paper bags were procured in large quantities from sustainable sources.
- Informational pamphlets and posters were created to educate the community on the harmful effects of plastic and the benefits of switching to paper bags.
- A team was assigned to design and print banners, ensuring visibility and outreach during the campaign.

C. Team Formation and Role Assignment

To execute the campaign efficiently, participants were divided into specialized teams, each responsible for different aspects of the activity:

1. Distribution Team – Responsible for handing out paper bags to shopkeepers, residents, and businesses.
2. Awareness Team – Engaged with the community, spreading knowledge about plastic

pollution and sustainable alternatives.

3. Documentation Team – Recorded photographs, videos, and testimonials to document the impact of the campaign.
4. Afforestation Advocacy Team – Educated people about tree planting and environmental conservation, encouraging pledges for afforestation.

2. Execution of the Activity

A. Paper Bag Distribution Drive

- The team visited major marketplaces, grocery stores, and residential areas to distribute eco-friendly paper bags.
- Each paper bag carried an environmental awareness message, urging people to replace plastic with paper.
- Shopkeepers were encouraged to use paper bags for their customers instead of plastic ones.

B. Community Engagement and Awareness Campaign

- Volunteers interacted with local residents, vendors, and students to discuss the negative environmental impact of plastic bags.
- Door-to-door campaigns and public interactions were conducted to spread awareness.
- Educational sessions highlighted plastic's contribution to pollution and its effect on soil, water bodies, and marine life.
- The health hazards associated with plastic usage were explained, encouraging people to opt for safer alternatives.

C. Afforestation Awareness and Environmental Pledges

- Informational pamphlets about the importance of trees in mitigating climate change were distributed.
- People were encouraged to take afforestation pledges, committing to plant and nurture trees.
- The team explained how afforestation helps in air purification, improving biodiversity, and combating climate change.

D. Public Display and Promotional Efforts

- Posters and banners were displayed in crowded public places to reinforce the message of sustainability.
- Some volunteers wore eco-friendly slogans on t-shirts to grab attention and start conversations.

3. Response and Community Feedback**A. Positive Reception and Behavioral Change**

- Residents welcomed the initiative, with many pledging to reduce their plastic usage.
- Several shopkeepers agreed to switch to paper bags permanently, contributing to a plastic-free environment.
- People showed increased awareness and understanding of the importance of sustainable practices.

B. Afforestation Interest and Commitment

- Many individuals expressed interest in participating in local tree-planting programs.
- Some residents pledged to take care of existing green spaces in their community.

4. Challenges Faced During Execution

While the campaign was largely successful, a few challenges were encountered:

A. Behavioral Resistance

- Some community members were hesitant to change their habits, showing reluctance in adopting paper bags.
- Shopkeepers initially worried about the cost and durability of paper bags compared to plastic.

B. Limited Awareness

- Some residents lacked basic environmental knowledge, making it necessary to use simplified messaging and visual aids.

C. Communication Barriers

- Since Abbigere has a diverse population, language differences made it challenging to communicate effectively.
- Volunteers adapted by using bilingual pamphlets and local language engagement to

connect better.

D. Long-Term Commitment Concerns

- Ensuring that the habit of using paper bags continued beyond the campaign required follow-up efforts.
- Collaboration with local authorities and environmental groups was suggested to sustain long-term engagement.



CONCLUSION

The paper bag promotion campaign in Abbigere was more than just an environmental initiative—it was a movement toward change, awareness, and responsibility. Through community engagement, education, and active participation, we witnessed how small, purposeful actions can ignite a larger cultural shift towards sustainability.

From the initial resistance to the warm acceptance of paper bags, from conversations about plastic pollution to heartfelt afforestation pledges, the campaign left an everlasting impact on the people of Abbigere. It was inspiring to see individuals embrace eco-friendly habits, proving that with the right awareness and encouragement, change is not only possible but inevitable.

Yet, this is just the beginning. Sustainability is not a one-time effort but a continuous commitment. The seeds of change we planted—both literally and figuratively—will flourish only if nurtured with perseverance and collective responsibility. As we move forward, we carry with us the hope that this initiative will inspire many more communities to take charge of their environment, one small step at a time.

Together, we are not just replacing plastic with paper; we are reshaping mindsets, restoring nature, and reclaiming the future of our planet.

Key Takeaways from the Initiative:

1. Reduction in Plastic Usage – The campaign successfully introduced an alternative to plastic bags, encouraging both residents and shopkeepers to make an eco-friendly switch.
2. Increased Awareness – The initiative helped people understand the harmful effects of plastic pollution and the benefits of using biodegradable materials like paper bags.
3. Afforestation Advocacy – Discussions on tree planting and environmental conservation inspired residents to take afforestation pledges, recognizing the crucial role of trees in sustainability.
4. Community Engagement – The campaign strengthened the bond between people and nature, fostering a sense of collective responsibility for environmental preservation.
5. Behavioral Shift – Initial resistance to change was gradually replaced with a willingness to adopt eco-friendly habits, demonstrating the power of persistence and education.

Activity 4

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belagavi - 590018



A Report on

PLANTATION DRIVE



NON CREDIT MANDATORY COURSE

Submitted in partial fulfillment of the requirement for the award of the degree of

**Bachelor of Engineering in
Computer Science and Engineering**

By

ANISH KUMAR

1AY21CS028

Under the guidance of
Mrs. VARALAKSHMI B D

Assistant Professor

Department of Computer Science and Engineering



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ACHARYA INSTITUTE OF TECHNOLOGY**

(Affiliated to Visvesvaraya Technological University, Belagavi) 2024-2025



CERTIFICATE

OF PARTICIPATION

This is to certify that Mr. Anish Kumar has successfully participated in the activity **PLANTATION DRIVE** which was conducted on **21/07/2024** as a part of AICTE activity from the Department of CSE, AIT.

Signature of Department Coordinators

- 1) Prof. Varalakshmi B D
- 2) Prof. Bhavyashree S P

ACKNOWLEDGEMENT

The satisfaction that accompanies the successful completion of this AICTE activity point program would be incomplete without the mention of the people who made it possible through constant guidance and encouragement.

I would like to take this opportunity to express my heart-felt gratitude to Dr. C.K Marigowda, Principal Acharya Institute of Technology, for providing the necessary support to complete this activity.

I would like to thank Prof. Rajeev Bilagi, HOD, Department of Computer Science and Engineering, for his valuable support.

I wish to express my deepest gratitude and thanks to Mrs. Varalakshmi B D and Mrs. Bhavyashree S P, Assistant Professor Department of CSE, for their suggestions during this activity.

A warm thanks to all the faculties of the Department of Computer Science and Engineering, who have helped me with their views.

I would like to extend my gratitude to the Chikkabanavara Chief Office for providing us the opportunity to conduct the activity which allowed us to make a significant contribution to the society.

CHAPTER 1

INTRODUCTION

The plantation drive held in Gudemaranahalli marks a crucial initiative towards improving the local environment and promoting sustainable ecological practices within the community. This well-organized effort was designed to enhance the region's green cover while encouraging long-term environmental responsibility. The primary goal of the initiative was to plant tree saplings in a systematic manner, ensuring they received the necessary nutrients and care for healthy growth. To achieve this, organizers incorporated natural and organic elements such as compost, coconut dry shells, and manure into the planting process. This strategic approach not only provided the young plants with a strong foundation but also helped improve soil fertility, ensuring sustained growth and development over time. By enriching the soil with essential nutrients, the initiative aimed to create a self-sustaining ecosystem that would contribute to cleaner air, increased biodiversity, and improved soil health.

Beyond the immediate environmental impact, the plantation drive played a significant role in educating the local community about the importance of sustainability and collective environmental efforts. The event was structured to foster teamwork and hands-on learning, allowing participants to gain a deeper understanding of ecological conservation. Volunteers were divided into specialized teams, each assigned specific responsibilities such as planting the saplings, distributing manure, and meticulously documenting the progress of the event. This structured division of labor ensured that the initiative was carried out efficiently while also creating an engaging and interactive experience for everyone involved.

Moreover, the initiative underscored the power of collective action in addressing environmental concerns. By actively involving the community, the plantation drive instilled a sense of responsibility and ownership among participants, inspiring them to adopt more environmentally conscious habits in their daily lives. The event also served as a reminder of the vital role that individuals and communities play in fostering ecological balance. The plantation drive in Gudemaranahalli, therefore, not only brought about immediate improvements in the local environment but also laid the groundwork for continued efforts in sustainability.

CHAPTER 2

OBJECTIVES

The plantation drive in Gudemaranahalli was primarily focused on enhancing the local environment by expanding green cover and encouraging sustainable agricultural methods. By planting tree saplings and enriching the soil with organic materials like compost, coconut dry shells, and manure, the initiative aimed to improve soil fertility and promote healthy plant growth. This effort not only contributed to maintaining the region's ecological balance but also supported long-term sustainability by preventing soil erosion, improving air quality, and creating a thriving habitat for local plants and wildlife.

Beyond environmental benefits, the drive also served as an educational opportunity for the community, raising awareness about the importance of conservation and sustainable practices. Residents actively participated in planting and nurturing saplings, gaining firsthand experience in ecological restoration. By organizing participants into specialized teams for planting, nutrient distribution, and event documentation, the initiative emphasized the power of teamwork and collective responsibility in achieving environmental goals.

Additionally, the event played a crucial role in strengthening community involvement in environmental efforts. By engaging local residents at every stage of the project, the drive fostered a sense of shared responsibility toward preserving nature. The successful execution of this initiative set a strong precedent for future community-led environmental programs,

Enhancing the Local Environment

1. **Expanding Green Cover** – The plantation drive aimed to increase the number of trees in the area, contributing to a greener and healthier environment.
2. **Improving Soil Health** – By using organic materials like compost, coconut dry shells, and manure, the initiative helped enrich the soil, making it more fertile for future plant growth.
3. **Preventing Soil Erosion** – Tree roots help bind the soil, reducing erosion and improving land stability.
4. **Enhancing Air Quality** – The planted saplings will eventually help absorb carbon dioxide and release oxygen, contributing to cleaner air.
5. **Supporting Local Biodiversity** – The new trees will provide food and shelter for local wildlife, helping maintain a balanced ecosystem.

Promoting Sustainable Agricultural Practices

6. **Organic Soil Enrichment** – The use of natural fertilizers instead of chemical alternatives promotes sustainable farming methods.
7. **Water Conservation** – Trees improve water retention in the soil, reducing the need for excessive irrigation.
8. **Encouraging Agroforestry** – The plantation effort demonstrated how trees can be integrated into farming systems to benefit both crops and the environment.
9. **Long-Term Carbon Sequestration** – The trees will act as carbon sinks, helping combat climate change by absorbing greenhouse gases.

Educating the Community

10. **Raising Awareness** – The event provided a hands-on learning experience about environmental conservation.
11. **Encouraging Responsibility** – Participants learned the importance of nurturing the saplings to ensure their survival.
12. **Demonstrating Practical Techniques** – Community members were trained in proper planting methods, soil management, and tree care.
13. **Showcasing Sustainable Practices** – The event highlighted how composting and organic fertilization can support plant growth naturally.

Fostering Community Engagement

14. **Strengthening Social Bonds** – The drive brought people together, promoting teamwork and collaboration.
15. **Encouraging Volunteerism** – Participants gained a sense of fulfillment by contributing to a meaningful cause.
16. **Inspiring Future Initiatives** – The success of this drive set an example for future environmental efforts in the area.
17. **Encouraging Intergenerational Participation** – The event involved people of all ages, ensuring that younger generations develop a habit of environmental stewardship.
18. **Empowering Local Leadership** – Community members took ownership of the initiative, building leadership skills and confidence.

Long-Term Sustainability and Impact

19. **Creating a Greener Future** – The trees will grow over time, contributing to long-term environmental improvements.
20. **Encouraging Ongoing Maintenance** – The initiative emphasized the need for regular follow-up care, such as watering and protecting the saplings.

21. **Building a Resilient Ecosystem** – More trees lead to better climate resilience, helping the community adapt to environmental changes.
22. **Setting a Model for Other Communities** – The success of this plantation drive can serve as inspiration for other regions to implement similar projects.
- both the environment and the people who depend on it.



CHAPTER 3

ABOUT THE PLACE

Gudemaranahalli is a quaint village nestled in the Chikkaballapur district of Karnataka, India. Known for its picturesque rural landscape, the village is deeply rooted in agriculture, serving as a vital contributor to the local economy. It forms a part of the Chikkaballapur taluk and is surrounded by lush farmlands, rolling hills, and the serene beauty characteristic of South India's countryside.

Agriculture and Economy

Farming is the backbone of Gudemaranahalli, with the village primarily cultivating staple crops such as paddy, ragi, maize, and a variety of vegetables. The agricultural cycle dictates the rhythm of daily life, with seasonal harvests playing a crucial role in sustaining livelihoods. Traditional farming methods coexist with modern agricultural practices, ensuring productivity while preserving the region's agrarian heritage. Many local families are engaged in farming-related occupations, including dairy farming and trade, further reinforcing agriculture as the primary economic driver.

Cultural Significance and Traditions

Gudemaranahalli is steeped in Kannada culture, with traditions passed down through generations. Festivals such as **Ugadi (Kannada New Year)**, **Deepavali (Festival of Lights)**, and **Sankranti** are celebrated with great enthusiasm, bringing the community together in vibrant cultural expressions. Local fairs and religious ceremonies add to the festive spirit, offering glimpses of the region's deep-rooted customs and social harmony. Temples and places of worship play an integral role in daily life, serving as centers for spiritual gatherings and cultural events.

Infrastructure and Connectivity

As a rural settlement, Gudemaranahalli's infrastructure is evolving, with facilities such as roads, schools, and healthcare centers developing gradually. While access to urban conveniences may be limited compared to larger towns and cities, the village maintains essential services to support its residents. Connectivity to nearby urban centers through road networks facilitates trade, education, and healthcare access, ensuring that villagers can benefit from broader economic and social opportunities.

Natural Beauty and Environment

The village is surrounded by scenic landscapes, characterized by vast green fields, gently

rolling hills, and a peaceful rural atmosphere. The environment offers a retreat from the hustle and bustle of city life, making it an ideal place for those who appreciate nature's tranquility. The unspoiled charm of Gudemaranahalli highlights the essence of Karnataka's countryside, where life moves at a slower yet fulfilling pace.

In essence, Gudemaranahalli embodies the spirit of rural Karnataka, where tradition and agriculture form the foundation of daily existence, and nature's beauty remains an ever-present backdrop to the lives of its people.



CHAPTER 4

CONDUCTION OF THE ACTIVITY

The plantation drive was carried out in a well-structured manner, divided into distinct phases to ensure efficiency and effectiveness. Each phase was carefully planned to facilitate smooth execution and maximize the success of the initiative.

1. Preparation Phase

This phase focused on laying the groundwork to ensure optimal conditions for the saplings.

- **Site Selection and Pit Digging:** Suitable locations were identified for planting the saplings, and pits were dug to the appropriate depth. This step was essential to provide adequate space and a supportive environment for plant growth.
- **Material Transportation:** Necessary resources such as compost, dried coconut shells, and manure were transported to the site. Proper planning and organization were required to ensure all materials were available on time and in the required quantity.

2. Team Formation and Task Allocation

To streamline the activities and improve efficiency, participants were divided into specialized teams, each responsible for a specific task:

- **Plantation Team:** Focused on planting the saplings at the right depth while maintaining adequate spacing between them.
- **Manure Distribution Team:** Tasked with applying compost, dried coconut shells, and manure around the saplings to enhance soil quality and provide necessary nutrients.
- **Mulching Team:** Responsible for spreading mulch around the plants to retain soil moisture, suppress weed growth, and improve overall soil health.
- **Media Team:** Documented the entire plantation drive through photographs and videos, helping to spread awareness about the initiative through different media channels.

3. Implementation Phase

This phase involved the actual execution of the plantation activities in a systematic manner.

- **Planting and Mulching:** Teams worked together to plant the saplings and cover the

soil around them with mulch for added protection.

- **Nutrient Application:** The manure distribution team applied compost and organic materials to enrich the soil, ensuring that each sapling received adequate nourishment.
- **Supervision and Coordination:** Team leaders oversaw the process to maintain efficiency, resolve any issues, and ensure all tasks were completed on schedule.

Challenges Encountered

Despite careful planning, several obstacles arose during the plantation drive:

1. Logistical Challenges:

- Transporting materials to the site was difficult, requiring efficient scheduling and resource management.
- Ensuring sufficient tools and equipment for all participants was another challenge, necessitating careful coordination.

2. Unfavorable Weather Conditions:

- Sudden weather changes, such as heavy rain or extreme heat, disrupted the plantation schedule.
- Protective measures had to be taken to shield the saplings from harsh environmental conditions.

3. Team Coordination Issues:

- Managing multiple teams simultaneously and ensuring smooth collaboration was complex.
- Avoiding delays and task overlaps required strong leadership and effective communication.

CONCLUSION

The plantation drive in Gudemaranahalli stands as a testament to the power of collective effort and strategic environmental action. Through meticulous planning, teamwork, and sustainable practices, the initiative not only enriched the local ecosystem but also instilled a sense of environmental responsibility among participants. The use of compost, coconut dry shells, and manure ensured that the saplings received adequate nourishment, increasing their chances of long-term survival and growth.

One of the key takeaways from this initiative was the role of community engagement in driving meaningful environmental change. By actively involving individuals in the planting process, distributing nutrients, and documenting the event, the drive fostered awareness and strengthened the bond between people and nature. The challenges faced during execution were met with resilience and collaboration, further emphasizing the importance of determination and adaptability in environmental efforts.

Looking ahead, the true impact of this initiative will be realized through consistent follow-up efforts, including regular maintenance, monitoring of sapling growth, and community-driven activities to sustain the momentum. Encouraging long-term participation and raising awareness about the benefits of afforestation will be essential in ensuring that the saplings grow into thriving trees, contributing to biodiversity, cleaner air, and a healthier ecosystem.

In essence, this plantation drive was more than just an event—it was a step toward long-term environmental stewardship. If sustained and expanded, such initiatives have the potential to create a lasting ecological legacy, benefiting not just the present community but also future generations who will inherit a greener and more sustainable world.

Activity 5

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belagavi - 590018



A Report on

Reduction in Energy Consumption



NON CREDIT MANDATORY COURSE

Submitted in partial fulfillment of the requirement for the award of the degree of

Bachelor of Engineering in Computer Science and Engineering

By

ANISH KUMAR

1AY21CS028

Under the guidance of
Mrs. VARALAKSHMI B D

Assistant Professor

Department of Computer Science and Engineering



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING ACHARYA INSTITUTE OF TECHNOLOGY

(Affiliated to Visvesvaraya Technological University, Belagavi)

2024-2025



CERTIFICATE

OF PARTICIPATION

This is to certify that Mr. Anish Kumar has successfully participated in the activity **Reduction in Energy Consumption** which was conducted on **17/03/2024** as a part of AICTE activity from the Department of CSE, AIT.

Signature of Department Coordinators

- 1) Prof. Varalakshmi B D
- 2) Prof. Bhavyashree S P

ACKNOWLEDGEMENT

The satisfaction that accompanies the successful completion of this AICTE activity point program would be incomplete without the mention of the people who made it possible through constant guidance and encouragement.

I would like to take this opportunity to express my heart-felt gratitude to Dr. C.K Marigowda, Principal Acharya Institute of Technology, for providing the necessary support to complete this activity.

I would like to thank Prof. Rajeev Bilagi, HOD, Department of Computer Science and Engineering, for his valuable support.

I wish to express my deepest gratitude and thanks to Mrs. Varalakshmi B D and Mrs. Bhavyashree S P, Assistant Professor Department of CSE, for their suggestions during this activity.

A warm thanks to all the faculties of the Department of Computer Science and Engineering, who have helped me with their views.

CHAPTER 1

INTRODUCTION

In today's world, energy conservation is not just an option but a necessity. With the increasing demand for electricity and the depletion of non-renewable resources, it has become crucial to adopt sustainable energy-saving practices. Reducing energy consumption not only helps in lowering electricity bills but also plays a significant role in minimizing environmental impact, reducing carbon emissions, and preserving natural resources for future generations.

The excessive use of electricity, fuel, and other energy sources has led to severe environmental concerns, such as global warming, climate change, and pollution. Many people remain unaware of the impact of their daily energy consumption habits. Therefore, our awareness campaign was designed to educate and encourage individuals, households, and businesses to adopt energy-efficient measures and contribute to a more sustainable future.

To make this initiative engaging and effective, we created chart papers, posters, and informational materials that highlight simple yet impactful ways to conserve energy. These materials were displayed in public places, schools, and offices to spread awareness and inspire people to take immediate action.

Our campaign emphasizes:

- **Practical energy-saving tips** for households, offices, and industries.
- **The importance of renewable energy sources** such as solar and wind energy.
- **The environmental and financial benefits** of reducing energy consumption.
- **Innovative technologies** that promote energy efficiency, such as LED lighting and smart appliances.
- **Long-term strategies** for sustainable living and energy conservation.

Through this initiative, we aim to foster a culture of energy responsibility where individuals and organizations recognize the importance of reducing energy wastage and actively participate in making a difference. Every small step counts, and together, we can create a future that is both energy-efficient and environmentally sustainable.

CHAPTER 2

OBJECTIVE

The primary objective of this initiative is to create awareness and educate individuals, households, and businesses about the importance of reducing energy consumption. By promoting simple and practical energy-saving practices, the initiative aims to minimize energy waste, lower electricity costs, and contribute to environmental sustainability. The campaign focuses on providing actionable steps that can be implemented in daily life to achieve long-term energy efficiency.

Specific Objectives:

1. Raising Awareness About Energy Conservation

- Educate people about the environmental and economic benefits of reducing energy consumption.
- Highlight the negative effects of excessive energy use, such as resource depletion and climate change.
- Use posters, charts, and presentations to effectively communicate energy-saving methods.

2. Encouraging the Use of Energy-Efficient Appliances

- Promote the adoption of LED bulbs, energy-saving fans, and smart appliances.
- Spread awareness about energy ratings and how choosing star-rated appliances can reduce electricity bills.
- Educate people on the long-term benefits of using energy-efficient equipment.

3. Reducing Unnecessary Energy Wastage

- Encourage simple habits like turning off lights, fans, and electronic devices when not in use.
- Promote the use of natural light during the daytime to reduce dependency on artificial lighting.
- Advocate for setting air conditioners at an optimal temperature to conserve energy.

4. Promoting Renewable Energy Sources

- Inform people about the advantages of using solar panels, wind energy, and other renewable energy sources.
- Encourage businesses and households to explore renewable energy alternatives to reduce dependency on fossil fuels.
- Explain how government subsidies and incentives can support the transition to renewable energy.

5. Encouraging Sustainable Practices in Workplaces and Schools

- Promote energy-saving measures in offices, schools, and industries to create a culture of conservation.
- Encourage the use of energy-efficient building designs and insulation to reduce heating and cooling costs.
- Suggest policies like switching to energy-saving modes on computers and appliances.

6. Reducing Carbon Footprint and Environmental Impact

- Educate individuals on how reducing energy consumption directly lowers carbon emissions.
- Advocate for lifestyle changes such as carpooling, using public transport, and reducing fuel consumption.
- Encourage participation in tree plantation drives to offset carbon footprints.

7. Long-Term Sustainability and Behavior Change

- Encourage individuals to adopt energy-saving habits as a lifelong practice.
- Promote continuous education programs on energy conservation.
- Inspire communities to take collective action towards a more energy-efficient future.

Through this initiative, the goal is to instill a sense of responsibility in individuals and organizations to adopt energy-efficient habits, leading to a sustainable and environmentally friendly future.

CHAPTER 3

ABOUT THE PLACE

Abbigere, located in the northern part of Bangalore, Karnataka, is a rapidly growing locality known for its mix of residential areas, educational institutions, small businesses, and industrial zones. Due to its increasing urbanization and rising population, energy consumption in the area has seen a significant surge. The Reduction in Energy Consumption campaign in Abbigere aimed to educate residents, business owners, and students about practical ways to minimize electricity usage, reduce wastage, and promote sustainable energy practices.

1. Geographical and Environmental Context

- Location and Connectivity: Abbigere is well-connected to other parts of Bangalore, including key areas like Vidyaranyapura, Jalahalli, and Yeshwanthpur. Its accessibility makes it an ideal location for implementing energy conservation initiatives that can influence surrounding communities.
- Climate and Energy Demand: The area experiences moderate weather conditions, but rising temperatures in summer increase the demand for air conditioners, fans, and coolers, leading to higher electricity consumption. In contrast, winter months witness increased use of heating appliances.
- Urbanization and Energy Challenges: With rapid expansion, Abbigere is witnessing a rise in electricity consumption due to new residential and commercial developments. The need for sustainable energy usage is becoming more critical to prevent excessive power wastage.

2. Community and Infrastructure

Abbigere is home to a diverse population, including working professionals, students, small-scale business owners, and local vendors. Each group contributes to energy consumption in different ways, making it essential to educate and promote energy-saving habits across various sectors.

- **Residential Areas:**

- Homes in Abbigere heavily rely on electricity for lighting, cooling, cooking, and electronic gadgets.
- The campaign aimed to encourage the use of LED bulbs, switching off unused appliances, and promoting natural lighting to reduce energy consumption.

- **Commercial and Business Establishments:**

- The locality has numerous shops, offices, and markets, where electricity is often used inefficiently.
- Business owners were encouraged to install energy-efficient appliances, automate lighting systems, and reduce power wastage in their establishments.

- **Educational Institutions:**

- Abbigere has several schools, colleges, and coaching centers, making it a crucial area for spreading awareness among students about energy conservation.
- Schools were encouraged to implement energy-saving policies, such as using solar panels, reducing AC usage, and optimizing classroom lighting.

- **Public Places and Street Lighting:**

- The campaign highlighted the importance of using LED streetlights and reducing unnecessary public electricity usage to minimize energy wastage in government offices and community centers.
- Authorities were urged to adopt smart lighting solutions to improve energy efficiency in public areas.

3. Energy Consumption Trends and Challenges in Abbigere

- Growing Electricity Demand: With urbanization, the demand for power-intensive devices such as refrigerators, washing machines, and air conditioners has increased.
- Lack of Awareness on Energy Conservation: Many residents were unaware of simple ways to save electricity and reduce their monthly bills.
- Dependence on Non-Renewable Energy: Most electricity in the locality comes from traditional power grids, increasing carbon emissions.
- Limited Use of Renewable Energy: Despite Bangalore's solar-friendly climate, the adoption of solar panels and renewable energy solutions remains low.
- Power Wastage in Common Areas: Many shops, houses, and offices leave lights and electronic devices running unnecessarily, leading to avoidable energy losses.

4. Why Abbigere Was Chosen for the Campaign

The decision to conduct the Reduction in Energy Consumption campaign in Abbigere was based on multiple factors:

- Rapid Urbanization and Rising Energy Demand: With new buildings and businesses emerging, energy usage is increasing, requiring better awareness and energy-efficient practices.
- High Scope for Energy Conservation: Simple initiatives like switching to LED bulbs, using energy-saving fans, and optimizing AC usage could significantly reduce power consumption in the area.
- Influence on Surrounding Communities: As a well-connected locality, Abbigere's success in energy conservation can serve as an example for nearby areas to adopt similar practices.
- Potential for Renewable Energy Adoption: Encouraging the use of solar power in households, schools, and offices could help reduce dependency on traditional electricity sources.

CHAPTER 4

CONDUCTION OF THE ACTIVITY

The Reduction in Energy Consumption awareness campaign in Abbigere, Bangalore, was conducted through a well-organized and structured approach. The initiative involved planning, community engagement, educational activities, and promotional efforts to spread awareness about the importance of saving energy. The campaign aimed to encourage residents, businesses, and educational institutions to adopt energy-efficient practices in their daily lives.

1. Planning and Preparation

Before implementing the campaign, a detailed plan was developed to ensure maximum outreach and effectiveness.

A. Research and Data Collection

- A survey was conducted in residential areas, schools, businesses, and public spaces to understand the current energy consumption patterns.
- Discussions with local authorities, shop owners, and households helped identify major areas of energy wastage and opportunities for improvement.
- Data was gathered on common electricity usage habits, such as reliance on inefficient lighting, excessive appliance usage, and lack of awareness about energy-saving techniques.

B. Designing Awareness Materials

- Posters, chart papers, and banners were created with simple, easy-to-understand messages about reducing energy consumption.
- Informational pamphlets with energy-saving tips, benefits of LED bulbs, and the importance of turning off unused appliances were printed for distribution.
- Visual aids were designed to explain how renewable energy sources like solar power can be implemented in homes and businesses.

C. Team Formation and Role Assignment

To ensure smooth execution, volunteers were divided into different teams, each handling specific tasks:

1. Presentation and Awareness Team – Educated people on practical energy-saving methods through demonstrations and discussions.
2. Poster and Chart Display Team – Placed posters in public spaces, schools, and business areas to spread awareness visually.
3. Survey and Feedback Team – Collected feedback from residents and shop owners to understand their perspectives on energy conservation.
4. Renewable Energy Advocacy Team – Focused on educating people about solar power, efficient appliances, and sustainable energy alternatives.

2. Execution of the Awareness Activities

The campaign was carried out in different locations of Abbigere, including residential neighborhoods, markets, educational institutions, and public offices.

A. Conducting Public Awareness Sessions

- Door-to-door interactions were held to educate residents about simple energy-saving habits such as switching off appliances when not in use, using energy-efficient bulbs, and reducing unnecessary power consumption.
- Volunteers explained the benefits of reducing energy usage, including lower electricity bills, reduced environmental impact, and increased efficiency.
- Interactive sessions in schools taught students about the importance of conserving energy and how they could implement these habits at home.

B. Poster and Chart Paper Displays

- Posters were placed in key locations, such as markets, parks, schools, and community centers, displaying energy conservation tips.
- Hand-drawn charts with illustrations and statistics were used to highlight how much energy is wasted due to carelessness and how small changes can make a big difference.

C. Demonstrations and Practical Guidance

- Demonstrations of energy-efficient appliances were conducted, showing the difference between incandescent bulbs, CFLs, and LED lights in terms of power consumption.
- A live example of how to set the right temperature for air conditioners to optimize energy use was given in some public places.
- The importance of natural lighting and ventilation in reducing electricity consumption was discussed with residents.

D. Community Engagement and Participation

- Local businesses were encouraged to reduce energy waste by switching to LED lighting and optimizing air conditioning usage.
- Shopkeepers and market vendors were advised to turn off unnecessary lights during daylight hours and use energy-efficient cooling systems.
- Government offices and public buildings were urged to adopt energy-saving measures, such as automated lighting systems and solar power adoption.

3. Challenges Faced and How They Were Overcome**A. Resistance to Change**

- Some residents and shopkeepers were hesitant to change their habits, believing that energy-saving measures would be costly or inconvenient.
- Volunteers explained the long-term financial benefits of using energy-efficient appliances and reducing electricity bills.

B. Lack of Awareness

- Many people were unaware of the impact of excessive electricity consumption on the environment.
- Posters and simple educational materials were used to break down the information into easy-to-understand points.

C. Language and Communication Barriers

- Since Abbigere has a diverse population, some residents faced difficulties in understanding technical terms.
- Volunteers communicated in multiple local languages and used visual aids to make the message more accessible.

D. Encouraging Long-Term Commitment

- The challenge was to ensure that energy-saving habits continued beyond the campaign.
- Follow-up visits and reminder posters were placed in high-traffic areas to reinforce the message.

4. Community Feedback and Impact

The campaign received positive responses from the residents and businesses of Abbigere.

A. Behavioral Changes Observed

- Many residents started turning off appliances when not in use after understanding how small efforts could lead to big savings.
- Shopkeepers who were previously unaware of LED benefits switched from traditional bulbs to energy-saving lights.
- Some houses and schools began considering the use of solar panels to reduce electricity dependency.

B. Increased Awareness About Energy Conservation

- People became more conscious of energy consumption habits, leading to a visible reduction in unnecessary electricity usage.
- Many families pledged to teach children about responsible energy use to ensure long-term awareness.

C. Institutional and Business Impact

- Several offices and schools adopted energy-efficient policies, such as turning off computers and lights after working hours.
- Businesses explored cost-effective energy solutions, helping reduce overhead expenses.

CONCLUSION

The Reduction in Energy Consumption campaign in Abbigere, Bangalore, successfully raised awareness about the importance of energy conservation and encouraged residents, businesses, and institutions to adopt sustainable energy-saving practices. Through posters, interactive discussions, and practical demonstrations, the initiative highlighted simple yet effective ways to minimize energy wastage, such as switching to LED bulbs, optimizing appliance usage, and adopting renewable energy sources. The campaign not only helped people understand the financial benefits of energy efficiency but also emphasized its positive impact on the environment by reducing carbon emissions and promoting sustainability.

One of the key achievements of this initiative was the behavioral shift observed among the community members. Many residents pledged to be more conscious of their electricity usage, while local businesses and institutions started implementing energy-saving policies, such as automated lighting systems, power-saving appliances, and efficient cooling solutions. Schools played a crucial role in reinforcing these habits among students, ensuring that the message of energy conservation extends beyond this campaign and continues as a long-term practice. The growing interest in solar energy and other renewable sources also indicates that the community is gradually moving towards a more sustainable and eco-friendlier lifestyle.

While the campaign made significant progress, continuous efforts are needed to sustain and expand these energy-saving habits in Abbigere. Future initiatives should focus on promoting renewable energy adoption, encouraging government incentives for energy efficiency, and strengthening collaborations with local authorities. Additionally, continued awareness programs and follow-up activities can help ensure that the impact of this campaign remains long-lasting and inspires neighboring communities to take similar steps toward energy conservation. With sustained commitment and collective action, Abbigere has the potential to become a model locality for energy efficiency, leading the way toward a greener and more sustainable future.