

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY
JNANASANGAMA, BELAGAVI-590 018, KARNATAKA**



**REPORT ON
“AICTE Activity Points Program”**

Submitted in the partial fulfilment of requirement for the award of Degree

**BACHELOR OF ENGINEERING
IN
COMPUTER SCIENCE AND ENGINEERING**

By
SYED FARHAN
4BD20CS104



**Department of Computer Science and Engineering
Bapuji Institute of Engineering and Technology**

Davanagere-577004

2023-24

Bapuji Institute of Engineering and Technology

Davangere -577004



Department of Computer Science and Engineering

CERTIFICATE

This is to certify that **SYED FARHAN** bearing USN **4BD20CS104** of **Computer Science and Engineering** department have satisfactorily submitted the **AICTE Activity Points Program** Report. This report of the activities has been approved as it satisfies the academic requirements in respect of the activities prescribed for academic year 2023-2024 in the partial fulfillment of the requirements for the award of Degree of Bachelor of Engineering (B.E.) in Computer Science & Engineering, under the VTU during the academic year 2023-24.

Dr. Gangadhar S Ph.D.
Department Coordinator

Dr. Naresh Patel Ph.D.
Department Coordinator

Dr. Naveen H M Ph.D.
Department Coordinator

Dr. Nirmala C R Ph.D.
Head of Department
Program Coordinator

Dr. H B Aravind Ph.D.
Principal

Date:

Place: Davanagere

Evaluators Names	Evaluators Signature with seal	Points Earned

Vision and Mission of the Department

VISION

To be a center-of-excellence by imbibing state-of-the-art technology in the field of Computer Science and Engineering, thereby enabling students to excel professionally and be ethical.

MISSION

M1	Adapting best teaching and learning techniques that cultivates Questioning and Reasoning culture among the students.
M2	Creating collaborative learning environment that ignites the critical thinking in students and leading to the innovation.
M3	Establishing Industry Institute relationship to bridge the skill gap and make them industry ready and relevant.
M4	Mentoring students to be socially responsible by inculcating ethical and moral values.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

The graduates will be able to

PEO1	To apply the skills acquired in the discipline computer science and Engineering for solving the societal and industrial problems with apt technology intervention.
PEO2	To continue their career in industry/academia or to pursue higher studies and Research
PEO3	To become successful entrepreneurs, innovators and job creators to design and develop software products and services to meet the societal, technical and business challenges
PEO4	To work in diversified environment by acquiring leadership qualities with strong Communication skills accompanied by professional and ethical values

PROGRAM SPECIFIC OUTCOMES (PSOs)

PSO1	Analyze and develop solutions for problems that are complex in nature but applying the knowledge acquired from the core subjects of this program.
PSO2	To develop secure, Scalable, Resilient and distributed applications for industry and societal requirements.
PSO3	To learn and apply the concepts and construct of emerging technologies like Artificial Intelligence, Machine learning, Deep learning, Big Data Analytics, IOT, Cloud Computing, etc for any real time problems.

ACKNOWLEDGEMENT

Salutations to our beloved and highly esteemed institute, “**BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY**” for having well qualified staff and lab furnished with necessary equipment’s.

I express whole hearted gratitude to **Dr. Nirmala C R**, who is our respectable HOD of Computer Science and Engineering Department and to **Dr. Mallikarjuna S B** activity coordinator for giving me constant encouragement, support and valuable guidance throughout the course of activity program without whose stable guidance this activity would not have been accomplished.

I express my sincere thanks to our Department Coordinators, **Dr. Gangadhar S, Dr. Naresh Patel & Dr. Naveen Kumar H M** for their moral supported encouragement.

I also express my wholehearted gratitude to our principal, **Dr. H B Aravind** for his moral support and encouragement.

I would like to extend my gratitude to all the staff of **Computer Science and Engineering Department** for their help and support. I have benefited a lot from the feedback, suggestions given by them.

I would like to extend our gratitude to all our family members and friends for their advice and moralsupport.

SYED FARHAN

4BD20CS104

ABSTRACT

This was an attempt to implement the AICTE programmer ideas in the villages to improve quality education, create awareness among people about their mental and physical hygiene, to enhance art, culture and natural heritage. Our team visited villages called Harihar, Chitra Durga, we visited the high schools, village houses, some shops and some farms to create awareness among the people. Sarkari Hiraya Prathamika Shale i.e., the Secondary School of the village was the main point of junction. Some healthy programmes were accomplished by dividing the team into smaller groups including plantation , cleaning the surroundings (Swachh Bharat Mission), Computer and educational based seminars etc. All our efforts got successful results. We hope the people caught the awareness about the factors and phenomenon.

AICTE ACTIVITY POINT PROGRAM

The objectives of AICTE student activity are to expose students to real-time life challenges, to provide the opportunity to gather data, analyse data, propose solutions and implement solutions. Also, it paves the way for personal development and creative engineers who are proud volunteers with a sense of achievement and ready to take up projects having a social impact and creating digital awareness. Besides, it helps the students to strengthen their soft skills, leadership qualities and team spirit. Moreover, these activities inculcate entrepreneurial mindset and societal commitment

Following are the various activities conducted by the institution to enable AICTE activity points

- Cleaning our surroundings (Swachh Bharat Mission)
- Helping local schools to achieve good result
- Plantation
- Digitized Money Transactions
- Promotion of Appropriate Technologies
- Jala Shakthi Abhiyan
- Tourism Promotion
- Garbage Disposal System
- Public Awareness regarding usage of drugs

CONTENTS

TOPICS	PAGE NO.
1.Introduction	1-2
2. Activities	3-19
• Cleaning our surroundings (Swachh Bharat Mission)	
• Helping local schools to achieve good result	
• Plantation	
• Digitized Money Transactions	
• Promotion of Appropriate Technologies	
• Jala Shakthi Abhiyan	
• Tourism Promotion	
• Garbage Disposal System	
• Public Awareness regrading usage of drugs	
3.Outcome of Activity	21
4.Consolidated Summary	22

INTRODUCTION

The officials said that the AICTE programme is a non-credit programme can be taken up any time during the semester weekends and holidays. Officials of VTU said, "The activities can be spread over the years as per students' convenience. By the end of eighth semester, they should have done one of these activities. This is to ensure that engineering degree is not only about technical knowledge but students can also have some contribution towards the society and hence students need to take up social activities."

Apart from technical knowledge and skills, to be successful as professionals, students should have **excellent soft skills, leadership qualities and team spirit**. They should have entrepreneurial capabilities and societal commitment. In order to match these multifarious requirements, AICTE has created a unique mechanism of awarding **minimum 100 Activity Points** over and above the academic grades.

Every regular student, who is admitted to the 4 years degree Programme, is required to earn 100 Activity Points in addition to the required academic grades, for getting 4 Years degree Programme. Students entering 4 years Degree Programme through lateral entry are required to earn 75 Activity Points, in addition to the academic grades, for getting 4 years' degree program. Similarly, Diploma students are required to earn 75 Activity Points during 3 years of their diploma Programme.

Every student is required to prepare a file containing documentary proofs of activities, done by him/ her. This file will be duly verified by the concerned evaluator. The student should earn at least 100 activity points before he/ she appears for his/ her Final Examinations. The points students have earned will be reflected on the student's transcript.

As proposed under the AICTE Rural Internship Programme, if a student completes any long-term goal during his degree Programme, it will be counted as Internship Activity and credit requirement for the internship is fulfilled. However, if only short-term interventions under the Programme are attempted it will be counted towards AICTE Activity Point Programme requisite. The Activity is to make the Students Socially Capable, Skillful, and capability to mingle in the society other than working only in technical issues. Apart from Technical knowledge and skills, to be successful as professionals, Students should have excellent soft skills, leadership qualities and team spirit. The Activity is conducted every year to build the above said qualities for we Engineering students. The Activity point earned shall be reflected on the students fourth semester Grade Card.



Following are the various activities conducted by the institution to enable AICTE activity points.

- Cleaning our surroundings (Swachh Bharat Mission)
- Helping local schools to achieve good result
- Plantation
- Digitized Money Transactions
- Promotion of Appropriate Technologies
- Jala Shakthi Abhiyan
- Tourism Promotion
- Garbage Disposal System
- Public Awareness regrading usage of drugs

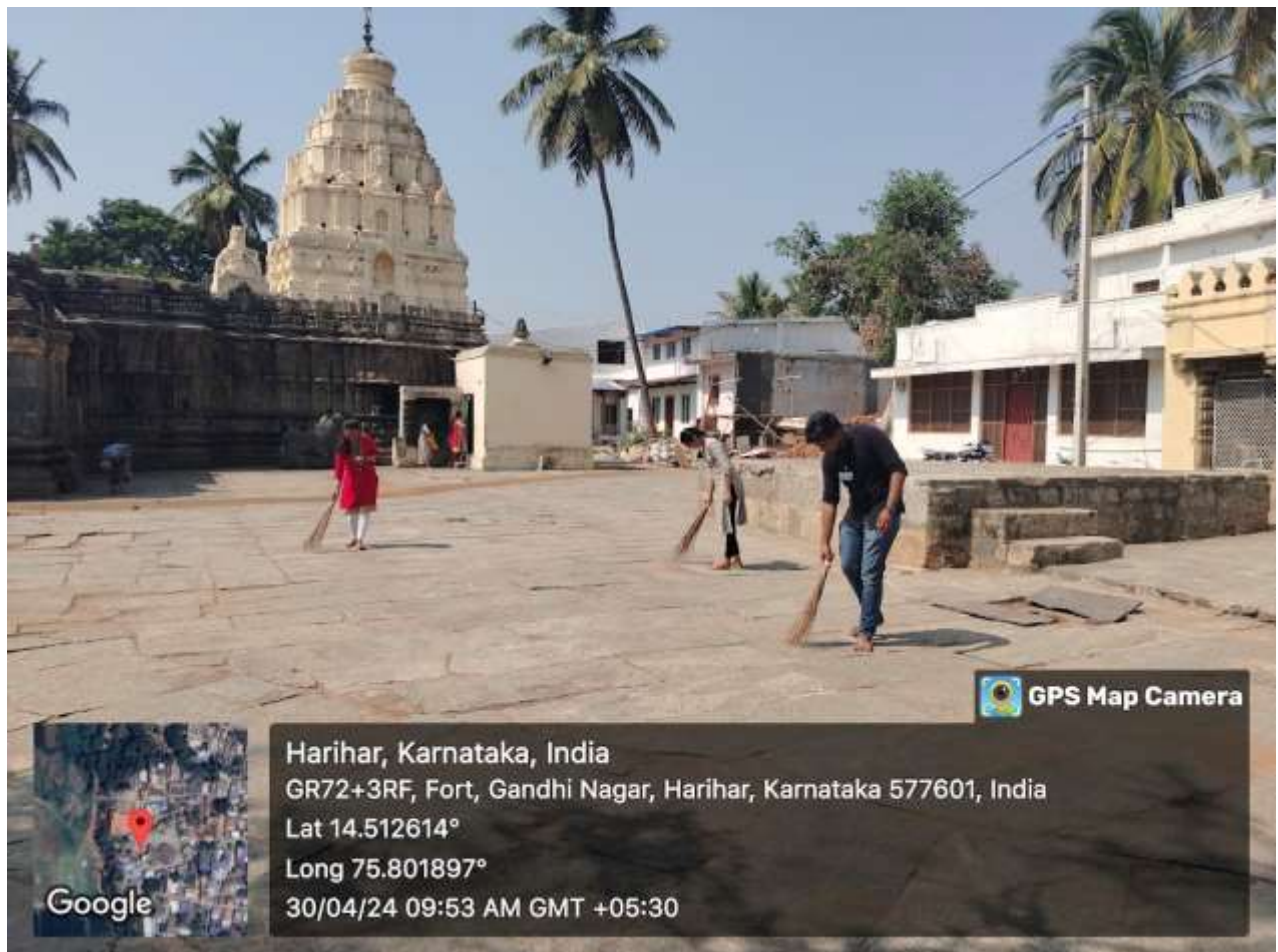
ACTIVITIES

1. SWACHH BHARAT MISSION

Swachh Bharath Mission, which was made compulsory by All India Council for Technical Studies (AICTE) for environmental education and to promote development in the country in a coordinated and integrated manner by the upcoming generation. As per the program, our program was scheduled on 30 April 2024 to 31 April 2024. Our destination was Gandhi Nagar, Harihar and we have managed to cover all the parts of this village trying to aware the village people about modern technologies and necessities. We had covered more than 30 houses each day in groups by taking survey and spreading awareness for the first day and the other day we shared our time with school students giving them information about Swachh Bharath Abhiyan.



Our program was coordinated by our faculties Dr. Mallikarjuna S B. We have extreme gratitude to our beloved Head of Department Dr. Nirmala C R for helping us complete this event. For the accomplishment of this event. Joining hands to clean our surroundings is the best work that has been displayed above regarding this programme. Hygiene is the most important aspect by letting know people that the work has been achieved in here. Saplings have been planted and taken care of. Decorative flower plants are revived.



2. HELPING LOCAL SCHOOLS TO ACHIEVE GOOD RESULT

Supporting local schools to achieve good results involves a multifaceted approach encompassing various strategies. Firstly, investing in teacher training programs is crucial to enhance educators' pedagogical skills and subject knowledge. Additionally, updating the curriculum to align with modern educational standards and incorporating innovative teaching methodologies can significantly impact student learning outcomes. Improving infrastructure, including libraries, laboratories, and technology resources, creates a conducive learning environment essential for academic success. Moreover, implementing student support initiatives such as tutoring programs and mentorship opportunities can provide essential assistance to learners facing challenges.



As per the program, our program was scheduled on 30 Dec 2022 and 02 May 2024 to 03 May 2024. Our destination was Harapan Halli and Chitradurga we have managed to cover all the parts of this village trying to aware the village students about modern technologies and necessities. Furthermore, fostering parental involvement through regular communication, workshops, and awareness sessions is vital for creating a supportive educational ecosystem. Lastly, forging partnerships with local businesses, NGOs, and community organizations can provide additional resources and expertise to enrich the learning experience and promote overall school success.

Our program was coordinated by our faculties Dr. Mallikarjuna S B. We have extreme gratitude to our beloved Head of Department Dr. Nirmala C R for helping us complete this event. For the accomplishment of this event. Joining hands to clean our surroundings is the best work that has been displayed above regarding this programme. Furthermore, enhancing the school infrastructure plays a pivotal role in creating an optimal learning environment. Adequate facilities such as well-equipped libraries, modern laboratories, and access to technology resources are essential for enriching the educational experience and facilitating hands-on learning opportunities.

Furthermore, fostering strong partnerships between schools, parents, and the wider community is crucial for creating a supportive educational ecosystem. By actively involving parents in their child's education through parent-teacher associations, workshops, and regular communication channels, schools can build trust, collaboration, and a shared commitment to student success.





3. PLANTATION

Plantation Program, which was made compulsory by All India Council for Technical Studies (AICTE) for environmental and protection education and to promote development in the country in a coordinated and integrated manner by the upcoming generation.

As per the program, our program was scheduled on 30 April 2024. Our destination was the village near Harihar and we have managed to cover all the parts of this village trying to aware the village people about modern technologies and necessities. We had covered more than 20 farms each day in groups by taking survey and spreading awareness for the first day and the other day we shared our time with school students giving them information about importance of protecting environment.



Our program was coordinated by our faculties Dr. Mallikarjuna S B. We have extreme gratitude to our beloved Head of Department Dr. Nirmala CR for helping us complete this event. For the accomplishment of this event. Trees play an essential part of every community and one must make huge efforts to maintain it that way. The tree plantation drive was conducted with an aim to control global warming, make environment pollution free and spread awareness on the importance of

keeping a clean environment, it stated. As part of the initiative, saplings were planted by the students of BIET. During the event, the programme they educated about the importance of trees in maintaining ecological equilibrium, it added.

Due to increasing cases of COVID-19 pandemic and rapid deforestation, the significance of social distancing, proper sanitization and benefits of tree plantation for maintaining the ecological equilibrium was explained to the villagers, was stated. As part of the initiative, besides planting the saplings, masks, sanitizers and other essential items were provided to the villagers. The village authorities expressed their gratitude and appreciated the endeavour of BIET students for initiating such an informative event, was added.

Aim and Objective of Tree plantation:

- To create green belt and avenues for meeting aesthetic recreational needs to the people.
- To beautify the areas for scenic beauty.
- To reduce the surface run-off discharge and checking soil erosion along the embankments.
- To reduce temperature and increase humidity.
- To reduce noise pollution to the neighboring household population.
- To reduce the impacts of air pollution and dust as trees and shrubs are known to be natural sink for air pollutants.
- To provide much needed shade on glaring hot roads during summer.
- Moderating the effect of wind and incoming radiation.
- To define the ROW especially highlight sharp horizontal curves during night.
- To promote road development as eco-friendly activity.

4. DIGITIZED MONEY TRANSACTIONS

Digital Awareness Program, which was made compulsory by All India Council for Technical Studies (AICTE) for technical education and to promote development in the country in a coordinated and integrated manner by the upcoming generation.

As per the program, our program was scheduled from 05 May 2024 to 06 May 2024. Our destination was the village named Harapanahalli and we have managed to cover all the parts of this village trying to aware the village people about modern technologies and necessities. We had covered more than 20 houses each day in groups by taking survey and spreading awareness for the first day and the other day we shared our time with school students giving them information about Digital Library and career guidance. Our program was coordinated by our faculties Dr. Mallikarjuna S B. We have extreme gratitude to our beloved Head of Department Dr. Nirmala CR for helping us complete this event. For the accomplishment of this event.



Aim and Objective of Digital Awareness Programme: -

- Extend student learning beyond the walls of the classroom.
- Prepare students to be safe, responsible and innovative digital citizens
- Engage students in real-world problems by collaborating with others in the classroom and across the world.
- Enable students to take responsibility for their own learning.
- Provide students with the tools to be successful in their future endeavours in
- higher education and/or careers. Provide equal access to technology and tools to all students in order to provide equal opportunities for all students.

5. PROMOTION OF APPROPRIATE TECHNOLOGIES

Effective drawing instruction involves a balance of structured guidance and freedom for exploration. Teachers can introduce students to a variety of drawing techniques and mediums, from pencil and charcoal to ink and pastels, allowing them to discover their preferred tools and styles. Drawing lessons can encompass still life studies, figure drawing, landscape sketches, and imaginative compositions, catering to diverse interests and abilities. Moreover, incorporating art history and cultural references into drawing lessons enriches students' understanding of artistic traditions and influences, inspiring them to draw inspiration from the past while forging their own artistic identities. As per the program, our program was scheduled from 02 May 2024 to 03 May 2024. Our destination was the village named Harapanahalli and we have managed to cover all the parts of this village trying to aware the village people about modern technologies and necessities.



Our program was coordinated by our faculties Dr. Mallikarjuna S B. We have extreme gratitude to our beloved Head of Department Dr. Nirmala CR for helping us complete this event.

Teaching language learning to school students is a multifaceted endeavor that encompasses cultural exploration, cognitive development, and practical skill acquisition. Through language learning, students not only gain proficiency in a new means of communication but also develop a

deeper understanding of diverse cultures, traditions, and perspectives. By emphasizing the interconnectedness of language and culture, educators can instill in students a sense of empathy, curiosity, and global awareness. Furthermore, language learning fosters critical thinking, problem-solving, and multitasking skills as students navigate grammar rules, vocabulary acquisition, and cultural nuances. Effective language instruction involves a balance of formal instruction, authentic immersion experiences, and the use of technology-enhanced learning tools. By providing students with the necessary resources, strategies, and motivation to engage in language learning, educators empower them to become lifelong learners capable of bridging linguistic and cultural divides in an increasingly interconnected world.

6. JALA SHAKTHI ABHIYAN

Jal Shakti Abhiyan, which was made compulsory by All India Council for Technical Studies (AICTE) for environmental education and to promote Development in the country in a coordinated and integrated manner by the upcoming generation as per the program, our program was scheduled from 01 May 2024 to 02 May 2024. Our destination was the village named Harihar and we have managed to cover all the parts of this village trying to aware the village people about modern technologies and necessities. We had covered more than 20 houses each day in groups by taking survey and spreading awareness for the first day and the other day we shared our time with school students giving them information about Jal Shakti Abhiyan, many students actively participated in this program Our program was coordinated by our faculties Dr. Mallikarjuna S B We have extreme gratitude to our beloved Head of Department Dr. Nirmala CR for helping us complete this event.



Ministry of Jal Shakti is taking up a nation-wide campaign "Jal Shakti Abhiyan: Catch the Rain" focusing on saving and conserving rainwater with the theme "Catch the rain, where it falls, when it falls" from 31 April 2024 to 05 May 2024 in the pre-monsoon and monsoon periods of 2024, covering both urban and rural areas of all the districts in the country.

National Water Mission, Ministry of Jal Shakti launched a campaign "Catch the Rain" with the tag line "Catch the rain, where it falls, when it falls" in 2020 to nudge the states and all stakeholders to create Rain Water Harvesting Structures (RWHS) suitable to the climatic conditions and sub-

soil strata, with people's active participation. The main aim behind setting up of "Jal Shakti Kendra" in each district is:

To assist the dams/Collectors to co-ordinate all activities related to Water Conservation in the district. This will NOT be a fund providing center, but will function as a support center for the District Magistrates/Collectors on water related issues including the plan preparation.



To act as a KNOWLEDGE CENTRE for the public to get information related to water and water sources in the district and a technical guidance center to advice local people about the APPROPRIATE rain water harvesting Structures, suitable to the climatic conditions and soil strata to be taken up to store rainwater.

7. TOURISM PROMOTION

Tourism promotion is a multifaceted endeavor crucial for socio-economic development, cultural exchange, and environmental conservation. our program was scheduled from 30 December 2022 to 31 December 2022 and 30 April 2024. Our destination was the Chitra Durga and we have managed to cover all the parts of this place trying to aware the visiting people and students about modern technologies and necessities. By fostering tourism initiatives, countries can stimulate economic growth by creating job opportunities, generating revenue through tourism-related services, and supporting local businesses. Additionally, tourism promotion enhances cultural exchange by showcasing unique traditions, heritage sites, and culinary delights to domestic and international visitors, fostering mutual understanding and appreciation among diverse communities.



Our Program was Co-ordinated by our faculties Dr. Mallikarjuna S B. We have extreme gratitude to our beloved Head of Department Dr. Nirmala CR for helping us complete this event. Furthermore, sustainable tourism practices prioritize environmental conservation and responsible tourism management, ensuring the preservation of natural resources and ecosystems for future generations. Through strategic partnerships with government agencies, industry stakeholders, and community organizations, tourism promotion initiatives can effectively leverage digital marketing campaigns, promotional events, and infrastructure development to attract

tourists, boost visitor engagement, and enhance the overall tourism experience.



8. PUBLIC AWARENESS REGRADING USAGE OF DRUGS

Public awareness regarding the usage of drugs is paramount in combating the pervasive issue of substance abuse. Our program was scheduled from 15 July 2022 to 20 July 2022 and 30 December 2022. Our destination was the Davangere and we have managed to cover all the parts of this city trying to aware the people about modern technologies and necessities. These campaigns not only highlight the detrimental effects of drug abuse on individuals and communities but also emphasize the importance of prevention, early intervention, and treatment. By disseminating accurate information about the risks associated with different types of drugs, including opioids, stimulants, and narcotics, public awareness initiatives empower individuals to make informed decisions and resist peer pressure to experiment with drugs. Furthermore, these campaigns raise awareness about the signs and symptoms of substance abuse, enabling early detection and intervention to prevent escalation into addiction. Through educational workshops, seminars, and outreach events, communities are equipped with the knowledge and resources to recognize and address substance abuse issues effectively.

In addition to educating individuals about the risks of drug abuse, public awareness campaigns strive to reduce the stigma surrounding addiction and promote empathy and support for those affected. By sharing personal stories of recovery and resilience, these campaigns humanize the



issue of addiction and encourage individuals to seek help without fear of judgment or discrimination. Moreover, public awareness efforts aim to mobilize community resources and

support networks to provide accessible treatment options, counseling services, and rehabilitation programs for individuals struggling with substance abuse.

Through collaboration with healthcare providers, law enforcement agencies, schools, and community organizations, public awareness campaigns create a network of support that promotes holistic healing and recovery for individuals affected by addiction.

As a responsible citizen leading the Jatha, my responsibilities extended to ensuring the safety and organization of the participants. I played a crucial role in maintaining order, adherence to the planned route, and creating a cohesive atmosphere during the rally.

This leadership role allowed me to contribute directly to the success of the event by ensuring that the message against drug abuse was conveyed effectively to the participants and the public along the route.

Beyond raising awareness and fostering support, public awareness campaigns also advocate for policy changes and legislative measures to address the root causes of drug abuse and improve access to prevention and treatment services.

By engaging policymakers, advocacy groups, and stakeholders in dialogue and action, these campaigns drive systemic changes that prioritize public health and safety.

This includes initiatives to enhance drug education programs in schools, implement evidence-based prevention strategies, expand access to medication-assisted treatment, and strengthen enforcement efforts to combat drug trafficking and distribution.



Through comprehensive and sustained public awareness efforts, communities can mobilize collective action to address the complex challenges of drug abuse and create a healthier, safer, and more resilient society for all.

9. WASTE MANAGEMENT SYSTEM IN RURAL AREAS

Wastes arise in association with almost every human activity and reflect the diversity of man's actions. Some waste may have some value to someone either in its present stage or in a converted stage. Our program was scheduled from 10 May 2024 to 12 May 2024. Our destination was the Davangere and we have managed to cover all the parts of this city trying to aware the people about modern technologies and necessities. The rural organic waste includes agricultural, domestic and rural industrial wastes. Agricultural waste is preliminary originated from animals (excreta and by products of dead animals) and plants (leaves, stalks, stubbles and shells) (Varshney, 1987). The nature, proportion and methods of utilization of organic wastes differ widely from place to place.



There remains unutilized a huge amount of recyclable industrial and organic wastes (cow dung). It is seriously needed to use them in environment friendly way even to protect the civilians from highly degraded and polluted environment. The usual useful source the cow dung production in the country is about 225 million tons (AIS, 2003) and that from other animals and poultry is about 9.3 million tons per year according to the census of agriculture 1996 (BBS, 2003) considering an average production of fresh dung as 9.5 kg per cattle, 200 goat or sheep, 60 g per local and 233 g per exotic poultry and 80 g per duck. The total recyclable produce thus stands about 279.88 MT or dry matter product of 139.94 million tons. Considering a dry matter (DM) need of 7.5 ton per hectare for an average yield of agricultural crops, this amount of SW can be used for 9329333 hectares of land for double crop (15 t/ha compost) per year which accounts more than total operated land (8293343.73 hectares) of the country. But unfortunately, the major parts of these wastes are wasted and lost due to non-recycling and proper preservation.

OUTCOME OF ACTIVITY

This Activity Points earned shall be reflected on the student's eighth semester Grade Card. Skill in Socio-Economical Status. Exposure to Society in return good relation with the surrounding world and to the current technological developments relevant to the subject area of training is one other outcome of this activity. Experience gained from the 'Activity Points Programme' will be recorded and used for various relevant purposes. Create conditions conducive to quest for knowledge and its applicability on the job. This Activity also made students to earn knowledge, social responsibility towards society. Thus, ensures that technical knowledge is also an integral part of education to develop the standards of society.

CONSOLIDATED SUMMARY

Date	Activity Name	No. of Hours Spent	Mentor Signature
DAVANGERE			
15-07-2022 - 20-07-2022	Public awareness regrading usage of drugs	40	
10-05-2024- 12-05-2024	Waste Management System in Rural areas	30	
CHITRADURGA			
30-12-2022- 31-12-2022	Tourism promotion	20	
HARIHAR			
30-04-2024- 31-04-2024	Swachh Bharat Mission	30	
01-05-2024- 02-05-2024	Jala Shakthi Abhiyan	15	
HARAPANAHALLI			
02-05-2024- 03-05-2024	Helping local school to achieve good result	20	
04-05-2024	Plantation	15	
05-05-2024- 06-05-2024	Digitized Money Transactions	15	
07-05-2024- 08-05-2024	Promotion of appropriate technologies	15	
Total		200	

Mentor

Department Coordinator

Head of the Department