Bapuji Educational Association ®
Bapuji Institute of Engineering and TechnologyDavangere-577004
Department of Electrical & Electronics Engineering

"Green & Eco-Friendly Campus Initiatives – Department of Electrical and Electronics Engineering"
March 2024-25

Arun kumar. P   Dr. M. S. Nagaraj
Assistant Professor   Professor & Head of Dept
Department of Electrical and Electronics **Department of Electrical and Electronics Engineering**
Mobile No-: 8904083057   **Program Coordinator**
Staff Coordinator

Sl.No	USN	Name
1	4BD23EE001	AKASH A M
2	4BD23EE002	AMRUTA HANUMANTAPPA SHIRASANGI
3	4BD23EE003	APPAJI GAJANAN TALIKOTI
4	4BD23EE004	ASHOK L B
5	4BD23EE005	BHOOMIKA M Y
6	4BD23EE006	BHOOMIKA V
7	4BD23EE007	CHANDANA A G
8	4BD23EE008	CHANDANA B B
9	4BD23EE009	CHANDANA G S
10	4BD23EE010	CHETANA G M
11	4BD23EE011	CHHAYA R MAHALE
12	4BD23EE012	CHINTANA R C
13	4BD23EE013	GANAVI Y KONDAJI
14	4BD23EE014	GOWRAMMA G T
15	4BD23EE016	HARSHITHA T
16	4BD23EE017	IMPANA P
17	4BD23EE018	JAYANTH A K
18	4BD23EE019	KAVANA M V
19	4BD23EE020	KAVYA VENKAPPA KONAPPANAVAR
20	4BD23EE022	LOCHAN PAWAR M
21	4BD23EE023	MANOJ S M
22	4BD23EE024	NAGARAJ Y V
23	4BD23EE025	NAKSHATRA KUMBHOJE
24	4BD23EE026	NANDAN S S
25	4BD23EE027	NANDEESHA N HOLEMATA
26	4BD23EE028	NANDITHA K T
27	4BD23EE029	NAVEEN K NIMBANNANAVAR
28	4BD23EE030	NAYAN MALLANAGOUDA PATIL
29	4BD23EE031	NISHATH ANJUM
30	4BD23EE032	PRAHLAD N
31	4BD23EE033	PRAJWAL C BHAJANTRI
32	4BD23EE034	RAKSHITHA B L
33	4BD23EE035	RAMYA C M
34	4BD23EE036	ROHITH K
35	4BD23EE037	ROHITH Y
36	4BD23EE038	SAGAR
37	4BD23EE039	SAKSHI A R
38	4BD23EE040	SAMEER
39	4BD23EE041	SHAMA J
40	4BD23EE042	SHARATH M J
41	4BD23EE043	SHIVARAJ LINGARAJ HALAGERI
42	4BD23EE044	SINCHANA T M
43	4BD23EE045	SIRI S RAIKAR
44	4BD23EE046	SNEHA U

45	4BD23EE047	SOFIYA
46	4BD23EE048	SRUSTI SOSALE RAVIKUMAR
47	4BD23EE049	SUPREETA BASAVARAJ ILAKALL
48	4BD23EE050	SWASTIK SHRIDHAR HULABUTTE
49	4BD23EE051	TEJASHWINI C
50	4BD23EE052	TRUPTHI S M
51	4BD23EE053	UTTHAM H K
52	4BD23EE054	VAISHNAVI S
53	4BD23EE055	VEDAMURTHY G L
54	4BD23EE056	VIDYA G B
55	4BD23EE057	VIKAS K
56	4BD23EE058	VIKAS MANJUNATH HARAVI
57	4BD23EE059	VINUTHA A
58	4BD23EE060	VINUTHA U
59	4BD23EE061	VISMAYA H N
60	4BD23EE062	YASHASWINI H K
61	4BD23EE063	YASHODHA RAMESH GUNJAL
62	4BD24EE400	B SAI VEENU
63	4BD24EE401	HEMANTH V
64	4BD24EE402	KUSHAL T V
65	4BD24EE403	M SANGEETHA
66	4BD24EE404	PUNITH M D
67	4BD24EE405	RAHUL KAWALE

Sl.No	USN	Name
1	4BD22EE001	ADARSH R P
2	4BD22EE002	AMRUTHA K N
3	4BD22EE003	APOORVA M G
4	4BD22EE005	BHARATH H
5	4BD22EE006	BHUVAN S SHETTAR
6	4BD22EE007	CHAITRA K
7	4BD22EE008	CHANDANA D N
8	4BD22EE009	CHANDANA G P
9	4BD22EE011	DEEKSHA L S
10	4BD22EE012	DEEKSHITH T P
11	4BD22EE013	DEEPAK N R
12	4BD22EE014	DHANAMMA PAWALE
13	4BD22EE016	DURGAPRASAD S
14	4BD22EE017	DURGASHREE M U
15	4BD22EE018	FARHANA R S
16	4BD22EE019	GAGAN J E
17	4BD22EE020	GURUMURTHY M V
18	4BD22EE021	HALASIDDESH Y S
19	4BD22EE022	HAMSAPRIYA N
20	4BD22EE023	HEMANTH KUMAR L
21	4BD22EE024	JEEVAN B P
22	4BD22EE025	K G SPURTHI
23	4BD22EE026	KALLESH S R
24	4BD22EE027	KARTHIK K Y
25	4BD22EE028	KEERTHI A R
26	4BD22EE030	KHUSHI G C
27	4BD22EE031	KRUTHIKA S M
28	4BD22EE033	MAHESHWARISHIVANAGOUDA PATIL
29	4BD22EE035	MOHAMMED SUHAIL
30	4BD22EE036	MOHAMMED TALHA
31	4BD22EE037	NANDITHA M
32	4BD22EE038	NAVEEN KUMAR K M
33	4BD22EE039	NIKHIL CKARINAGANNANAVAR
34	4BD22EE040	PAVAN CHANDU M
35	4BD22EE041	PRAJWAL S M
36	4BD22EE043	PRATHIKSHA K C
37	4BD22EE044	PRIYANKA G B
38	4BD22EE045	PRIYANKA N
39	4BD22EE046	PRIYANKA PARASHURAM CHINNIKATTI
40	4BD22EE047	PUNITH B J
41	4BD22EE048	R ABHISHEK
42	4BD22EE049	RAGHUNANDAN P RAO
43	4BD22EE050	RENUKA R
44	4BD22EE051	SAMAH S

45	4BD22EE052	SHAHEER HUSSAIN
46	4BD22EE053	SHALINI B S
47	4BD22EE054	SHANMUKHA M
48	4BD22EE055	SHIVANI MAHADEV BHIKKA
49	4BD22EE056	SHIVARAJKUMARMALLIKARJUN CHANNA
50	4BD22EE057	SIDDANAGOWDA SKAKKALAMELI
51	4BD22EE058	SOURNDARY R HALAGERI
52	4BD22EE059	TEJASWINI R M
53	4BD22EE060	VIDYA N
54	4BD22EE061	VINAY M L
55	4BD22EE062	VINAYAKA P S
56	4BD22EE063	Y DHANUSH
57	4BD23EE400	BHAVANI
58	4BD23EE401	DHEERAJ J R
59	4BD23EE402	HALLADA CHANDU
60	4BD23EE403	MALIGE MOUNESHA
61	4BD23EE404	SANJAY NAIK A
62	4BD23EE405	VINUTHA B P

Certificate

This is to certify that the Green & Eco-Friendly Campus initiatives documented in this report have been genuinely undertaken by the **Department of Electrical & Electronics Engineering** during the academic year 2024-25 and are submitted for AICTE compliance.

Date: Signature of HoD

Declaration

I hereby declare that the information provided in this report is true, accurate, and supported by verifiable documentary evidence.

Name: Arun kumar. P

Signature:

Designation: Assistant Professor

Date:

INDEX:

Introduction

Brief profile of the department

The Department of Electrical and Electronics Engineering provides a balanced curriculum integrating Electrical Engineering—encompassing power systems, machines, renewable energy, and grid modernization—with Electronics Engineering, covering circuits, microelectronics, VLSI, embedded systems, and communications. The four-year B.E. program establishes a robust foundation in core principles, supported by specialized labs including Power Systems, Power Electronics, VLSI, Embedded Systems, and Control & Robotics. Graduates pursue diverse careers in power utilities, semiconductors, automotive, renewables, IoT, and embedded software, aided by the department's interdisciplinary approach, strong industry collaborations, student innovation initiatives, and a focus on societal challenges. Ultimately, the department acts as a hub for technological progress, educating problem-solvers who bridge hardware and software to create a smarter and more sustainable future.

- Importance of sustainability and green practices in the department

Sustainability and green practices are central to the modern Electrical and Electronics Engineering department, shaping both education and operations. This commitment is integrated into the curriculum through mandatory courses on renewable energy, energy efficiency, and lifecycle analysis, alongside a design philosophy emphasizing recyclable materials and low-power devices. Research is driven by sustainability, focusing on smart grids, energy harvesting, wide bandgap semiconductors, and green electronics. The department leads by example with energy-efficient labs, strict e-waste management, and sustainable procurement. Project-based learning and student initiatives, such as capstone projects and IEEE-led green-tech hackathons, foster innovation. Ultimately, this focus aligns with global challenges and industry demands, preparing graduates not only to build advanced systems but to do so responsibly—ensuring technological progress contributes to a sustainable future.

Waste Management

1. **Type of Initiative** (Waste Management)

Initiatives:-

Cleanliness Drives and Campaigns

Waste Management Systems

Awareness Programs

Community Engagement

Infrastructure Development

Monitoring and Evaluation

2. **Objectives**

The Swach Bharat Abhiyan has several key objectives aimed at transforming India into a clean and hygienic nation. These objectives include:

1. **Eliminating Open Defecation**: One of the primary goals is to eradicate open defecation by constructing household and community toilets, especially in rural areas. This helps in improving sanitation and reducing the spread of diseases.

2. **Improving Solid Waste Management**: The campaign emphasizes the importance of proper waste management, including segregation of waste at source, recycling, and efficient disposal of non-biodegradable waste. This reduces environmental pollution and promotes sustainability.

3. **Promoting Cleanliness and Hygiene**: Swach Bharat aims to create awareness about the importance of cleanliness and hygiene in preventing health issues. This includes personal hygiene practices, clean surroundings, and the maintenance of public spaces.

4. **Engaging the Community**: The initiative seeks to involve citizens in cleanliness activities, fostering a sense of ownership and responsibility towards maintaining a clean environment. Community participation is crucial for the success of the campaign.

3. Date & Duration:-   25ᵗʰ November to 25ᵗʰ November   3 Hours

4. Participants

      Number of students: - 6 no's

      Number of faculty staff - 1

5. Description of the Activity

Cleanliness Drives and Campaigns:

Regular cleanliness drives and campaigns are organized to ensure a clean and hygienic environment. These drives involve students, faculty, and staff in activities such as cleaning classrooms, laboratories, playgrounds, and common areas. Special attention is given to waste segregation, recycling, and the proper disposal of non-biodegradable waste. By actively participating in these activities, the campus community develops a sense of responsibility and commitment to maintaining cleanliness.

Waste Management Systems:

Effective waste management systems are crucial for achieving the goals of the Swachh Bharat initiative. Educational institutions have implemented comprehensive waste management practices, including the segregation of biodegradable and non-biodegradable waste.

Biodegradable waste is processed through composting units to produce organic fertilizer, while non-biodegradable waste is collected and disposed of responsibly. These systems ensure efficient waste management and contribute to environmental sustainability.

Awareness Programs:

Awareness programs are conducted to educate students and the community about the importance of cleanliness and hygiene. Workshops, seminars, and interactive sessions cover topics such as waste management, sanitation practices, and the health benefits of a clean environment. The goal is to create a culture of cleanliness and hygiene that extends beyond the campus, encouraging individuals to adopt responsible practices in their daily lives.

Community Engagement:

Engaging with the local community is essential for the success of the Swachh Bharat initiative. Educational institutions organize community service projects, such as cleaning public spaces, conducting door-to-door awareness campaigns, and organizing rallies to spread the message of cleanliness. These activities help to create a ripple effect, inspiring the community to join the movement and adopt similar practices.

Infrastructure Development:

To support the Swachh Bharat initiative, significant investments have been made in infrastructure development. This includes the construction of toilets, installation of handwashing stations, and establishment of waste disposal facilities. These amenities ensure that students and staff have access to clean and hygienic facilities, promoting a healthy campus environment and preventing the spread of diseases.

Monitoring and Evaluation:

Regular monitoring and evaluation of cleanliness initiatives are conducted to assess their effectiveness and identify areas for improvement. Feedback from students, faculty, and staff is collected to make necessary adjustments and ensure continuous progress in maintaining high cleanliness standards.

6. Outcome & Impact

Environmental benefits

The campaign's primary goals include eliminating open defecation, improving solid waste management, and fostering a culture of cleanliness across urban and rural areas. With the slogan "One step towards cleanliness," Swachh Bharat Abhiyan has galvanized millions of citizens, public servants, and organizations to participate actively in this monumental effort.

Educational or social impact

Educational institutions, particularly colleges and universities, play a pivotal role in this mission. As centers of learning and social development, these institutions have the power to influence young minds and instill the values of cleanliness, hygiene, and environmental responsibility.Through sustained efforts and innovative approaches, educational institutions can lead the way in creating a cleaner, healthier India, inspiring future generations to uphold the ideals of Swachh Bharat Abhiyan.

7. Photographic Evidence

8) **Summary of Green Initiatives**

Implementing Tree Plantation Initiatives

Tree plantation is a powerful and impactful way to promote social connect and fulfill social responsibilities. By planting trees, individuals, organizations, and communities can make a significant contribution to environmental conservation, enhance social well-being, and foster a sense of community. The benefits of tree plantation extend beyond environmental stewardship, providing health, economic, and educational value. Through collective efforts, careful planning, and sustained initiatives, we can create a greener, healthier, and more sustainable world for future generations.

Embracing tree plantation as a core aspect of social responsibility demonstrates a commitment to protecting the environment and promoting the greater good. Let us come together to harness the power of trees and build a better, more sustainable future for all.

Furthermore, tree plantation initiatives serve as educational platforms, teaching participants about the importance of environmental conservation and sustainability. These activities encourage individuals to think critically about their impact on the planet and inspire them to adopt more sustainable practices in their daily lives. By involving young people in tree planting projects, we instill in them a sense of responsibility towards the environment, ensuring that the values of conservation and stewardship are passed on to future generations.

The economic benefits of tree plantation are also noteworthy. Trees enhance property values, attract tourism, and provide opportunities for sustainable income through fruit harvesting and other products. Urban forestry projects can lead to significant cost savings by reducing the need for air conditioning and improving stormwater management. Investing in tree plantation is an investment in the long-term health and prosperity of communities.

1. Initiative: - Tree Plantation

Date (from-to):- 24ᵗʰ December to 24ᵗʰ December

Theme: - Social connect and Responsibilities

Names of Participants (Students and faculties):-

1) APPAJI GAJANAN TALIKOTI
2) MANOJ S M
3) B SAI VEENU
4) SWASTIK SHRIDHAR HULABUTTE
5) SHIVARAJ LINGARAJ HALAGERI
6) PRAJWAL C BHAJANTRI

Names of faculty

Arunkumar P

Objectives

- ➢ To encourage projects and initiatives on afforestation, landscape and ecosystem restoration, soil and water conservation, water quality maintenance, waste management, clean energy resources and climate change mitigation
- ➢ To take into account environment, occupational health aspects in planning and decision-making.
- ➢ To encourage rural development programs and provide with professional resource support our institute