

BITM Sustaina SDG Group

Club logo :

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“SUSTINA is a team of eco warriors, like engineers, who work on sustainable projects to make our land fertile and less harmful to the environment”

Vision & Mission of club

Vision :

To foster scientific and social awareness off environmental sustainability by leveraging technology.

Mission :

- To Orient students towards research and innovation for researching sustainable development goals through creative, critical and community participation.
- To promote sustainability of natural resources and motivate students to participate by practical applications.
- To develop greener solutions through technology for a sustainable future.

Eco warriors of BITM SDG group

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Our Work

We create projects focused on sustainable living, making our land fertile, and reducing harm to the environment. Our experienced team uses engaging tools and leaves behind guides and activities to provide climate change information coupled with behavior-based energy-saving choices.

Our club has successfully organized several impactful activities that promote sustainability and environmental awareness. Through the One Tree One Student initiative, we encouraged every student to plant and nurture a tree, fostering a long-term commitment to greenery. The Eco-Bricks Workshop taught participants how to repurpose plastic waste into reusable building materials, with students actively contributing eco-bricks for sustainable projects. The Sanganakallu Trekky combined historical exploration with environmental education, inspiring participants to appreciate and preserve natural and cultural heritage. Additionally, the Plantation Drive resulted in numerous trees being planted on campus, creating greener spaces through collaborative efforts. These activities reflect our commitment to fostering a culture of sustainability and community engagement.

Presentation On Sustainable Development Goals

By : Sanjay P S

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Environment and Sustainability

Introduction :

Our Mission is to bring Eco-Warriors and engineers to work on sustainable projects, educate our communities and promote eco-friendly practices.

"Welcome to the Environment and Sustainability section of the Ballari Institute of Technology and Management (BITM) website. BITM is deeply committed to integrating sustainable practices into all aspects of our operations, academics, and community engagement. This section provides a comprehensive overview of our initiatives, aligned with the United Nations' Sustainable Development Goals (SDGs). You'll find information on our water conservation programs, energy management strategies, and efforts to reduce our carbon footprint. We also detail our waste management practices, including e-waste, liquid waste, and bio-medical waste MOUs, as well as our ongoing efforts to improve our environmental performance through regular Green and Energy Audits. Explore our Green Rankings to see how we measure up and join us in our journey toward a more sustainable future."

1. Water Conservation

At Ballari Institute of Technology and Management (BITM), we recognize the importance of water conservation as a critical component of our sustainability efforts. Here are some key initiatives we've implemented :

- **Rainwater Harvesting** : We have established a rainwater harvesting system across our campus, which collects and stores rainwater for non-potable uses such as flushing toilets, watering plants, and cleaning surfaces. This not only reduces our reliance on municipal water supplies but also helps recharge groundwater levels.
- **Groundwater Recharge** : Our bore wells are used to replenish groundwater through effective recharge techniques. This ensures that naturally filtered rainwater is stored underground, maintaining healthy aquifers.
- **Efficient Water Distribution Systems** : Our campus features well-maintained water distribution networks with minimal leakages. Regular checks by our maintenance team ensure that all pipes and valves are in good condition to prevent unnecessary water loss.
- **Awareness Programs** : We conduct regular awareness programs on water conservation among students, staff, and local communities to promote responsible water usage practices.
- **Use of Water-Efficient Appliances** : All new installations include low-flow fixtures such as faucets and toilets to minimize per capita consumption without compromising hygiene standards.

By integrating these measures into our operations, BITM aims to reduce its environmental impact while fostering a culture of sustainability among its stakeholders.

2. Energy Management

At Ballari Institute of Technology and Management (BITM), we recognize that responsible energy management is crucial for minimizing our environmental impact and promoting a sustainable future. We are committed to reducing our energy consumption, improving energy efficiency, and exploring renewable energy sources. Here are some key aspects of our energy management strategy :

- **Energy-Efficient Infrastructure** : We have invested in energy-efficient lighting systems, HVAC (Heating, Ventilation, and Air Conditioning) systems, and other equipment to minimize energy waste. This includes using LED lighting throughout the campus and implementing smart building management systems to optimize energy usage.
- **Renewable Energy Initiatives** : BITM is actively exploring and implementing renewable energy sources to reduce our reliance on fossil fuels. This may include solar power installations, wind energy assessments, and other renewable energy projects. We are committed to increasing the proportion of renewable energy in our overall energy mix.
- **Energy Audits and Monitoring** : We conduct regular energy audits to identify areas where we can improve energy efficiency and reduce waste. These audits provide valuable data that informs our energy management strategies. We also monitor our energy consumption patterns closely to track our progress and identify any potential issues.
- **Energy Conservation Awareness Programs** : We conduct regular awareness campaigns and educational programs to promote energy conservation among our students, faculty, and staff. These programs encourage responsible energy consumption habits both on and off campus.
- **Smart Building Management Systems** : BITM utilizes smart building management systems to optimize energy usage based on occupancy, weather conditions, and other factors. These systems automatically adjust lighting, HVAC, and other systems to minimize energy consumption without compromising comfort or productivity.
- **Power Factor Correction** : We implement power factor correction measures to improve the efficiency of our electrical systems and reduce energy losses.
- **Procurement Policies** : Our procurement policies prioritize energy-efficient equipment and appliances, ensuring that we are making sustainable choices whenever we purchase new equipment.

Through these initiatives, BITM is committed to reducing its energy footprint and promoting a culture of energy conservation. We believe that responsible energy management is essential for creating a sustainable future for our institution and the wider community.

3. Energy Statistics

The Ballari Institute of Technology & Management (BITM), under the Tungabhadra Education Health & Rural Development Trust, has established an Energy Policy for the academic years 2021-2022 and 2022-2023. This policy, drafted by Greenvio Solutions, aims to improve power usage based on existing consumption patterns and strategic implementations. The policy addresses an electrical load of 10,81,895 kWh, focusing on replacing non-energy-efficient lights and conventional ceiling fans with energy-efficient alternatives to move towards a 100% energy-efficient appliance premise. It also seeks to reduce air conditioning loads and promote natural ventilation.

Objectives include increasing the use of alternate energy sources like solar streetlights and conducting stakeholder awareness programs. The policy implementation involves documenting the use of alternate energy sources to achieve a Net Zero or Net Positive Campus and utilizing sensor appliances to reduce mandatory energy consumption. This policy references the AICTE Environment Policy 2020 and provides a framework for BITM to enhance its energy efficiency and sustainability practices.

4. Waste Management

On 26 February 2024, a Letter of Appreciation was awarded to the Tungabhadra Education Health & Rural Development Trust's Ballari Institute of Technology & Management, located at #873/2, Jnana Gangotri Campus, Ballari - Hosapete Road, Near Allipur, Ballari - 583104, Karnataka, India. This recognition acknowledges the institute's commendable efforts in promoting a healthy and sustainable environment.

The letter specifically appreciates the institute's initiative in printing and displaying awareness posters related to waste management, water conservation, environmental protection, and plastic awareness. These posters have been strategically placed in appropriate locations throughout the premises, demonstrating the institute's commitment to raising awareness on these critical issues. The sender expresses hope that the institute will continue similar efforts in the future. Additionally, the letter mentions that photographic evidence of these activities was shared by the institute following suggestions made to them. The letter is signed by Ar. Nahida Shaikh, the Project Head and Green Building Consultant at Sustainable Academe, which is part of the Sustainability Department of Greenvio Solutions. Contact information for further inquiries is provided, including two email addresses: sustainableacademe@gmail.com and greenviosolutions@gmail.com.

5. Green Rankings

Ballari Institute of Technology & Management (BITM) has adopted a Green Building

Management Policy, drafted by Greenvio Solutions, for the academic years 2021-2022 and 2022-2023. This policy aims to implement cost-effective green building parameters through stakeholder intervention. Key goals include documenting green practices, increasing practical and virtual activities related to social welfare and sustainability, and collaborating with organizations for community development initiatives. The policy emphasizes campus beautification through xeriscaping and site management by dividing the campus into zones such as green, oxygen, and waste management zones.

The policy also focuses on water conservation and waste management, promoting responsible waste disposal at the source by stakeholders and through administrative measures. This policy provides a framework for BITM to enhance its green building practices. For further details, Greenvio Solutions can be contacted at greenviosolutions@gmail.com.

6. Environment Audit

The Ballari Institute of Technology & Management, governed by the Tungabhadra Education

Health & Rural Development Trust, engaged Greenvio Solutions to conduct a detailed Environment Audit over the two academic years 2021–2023. This audit aimed to evaluate the campus’s environmental sustainability and align its practices with national and international green building standards. The study included a comprehensive flora survey, documenting over 1,600 plants and trees across the campus, including species such as bamboo, teak, neem, and rain trees, contributing to a healthy and green campus environment. The audit assessed existing facilities and infrastructure, providing insights and recommendations to further develop a sustainable and eco-friendly institution.

Aligned with the institute’s mission to produce skilled graduates equipped with technical and managerial expertise, the audit supports BITM’s commitment to sustainability and environmental responsibility. The recommendations from this study can be implemented in phases, enabling the institute to progressively enhance its green initiatives and promote a healthier campus. For further information, Greenvio Solutions, the accredited consultancy behind this audit, can be contacted at greenviosolutions@gmail.com.

7. Green Audit Reports

The Ballari Institute of Technology & Management, under the Tungabhadra Education Health

& Rural Development Trust, commissioned a comprehensive two-year energy audit (2021–2023) conducted by Greenvio Solutions, an accredited environmental and architectural consultancy. The audit assessed the institute’s electrical energy consumption patterns to identify opportunities for enhancing sustainability and energy efficiency. Key findings reveal that fans account for the largest portion of energy use at 44%, followed by equipment at 31%, air conditioners at 16%, and lighting at 9%. These insights provide a clear basis for targeted energy-saving measures aligned with national and international green building standards.

The institute is committed to producing skilled graduates through advanced technical and management education, emphasizing professional ethics and collaboration with industry for skill development. The audit’s recommendations can be implemented in phases to progressively create a healthier, more sustainable campus environment. This study underscores the institute’s dedication to environmental responsibility and provides actionable guidance to optimize energy consumption, reduce operational costs, and support long-term sustainability goals. For further information, Greenvio Solutions can be contacted at sustainableacademe@gmail.com.

8. Gender Audit Report

The Tungabhadra Education Health & Rural Development Trust’s Ballari Institute of Technology & Management undertook a comprehensive Gender Audit for the academic years 2021–2023, conducted by Greenvio Solutions under their Sustainable Academe initiative. This audit assessed gender equality practices within the institute, focusing on student and staff demographics, gender balance, and institutional measures aligned with the United Nations Sustainable Development Goal 5 (Gender Equality). The audit revealed a student population of over 3,600 and a staff strength of nearly 400, with a balanced representation across teaching, administrative, and non-teaching roles. Survey results indicated that while gender-related practices such as anti-ragging measures and gender balance in administration were rated highly by over 50% of respondents, areas like faculty gender ratio showed room for improvement.

Current initiatives include scholarships for marginalized groups, a gender-focused newsletter, an active Anti-Sexual Harassment Committee, and industry readiness training for all students.

The audit recommends long-term strategies such as increased gender-sensitivity workshops, appointing dedicated gender in-charges, promoting equal representation in educational materials and activities, and supporting women during maternity to foster a more inclusive environment. These efforts reflect the institute's commitment to fostering gender equality and creating a supportive, equitable academic community. For further details or collaboration, Greenvio Solutions can be contacted at sustainableacademe@gmail.com.

9. Healthy and Sustainable Premises

Ballari Institute of Technology & Management (BITM), under the Tungabhadra Education

Health & Rural Development Trust, received a Letter of Appreciation from Greenvio Solutions recognizing their efforts toward creating a Healthy & Sustainable premises. This appreciation acknowledges BITM's commitment to water and waste management practices for Green Buildings, as suggested by Greenvio Solutions. It also commends the team's enthusiasm.

Greenvio Solutions recommended increasing student and staff sensitization through expert talks and signed an MoU with BITM to achieve these goals on a perpetual basis. The appreciation was issued by Ar. Nahida Shaikh, Project Head and Green Building Consultant at Sustainable Academe, the Sustainability Department of Greenvio Solutions. For further details, Greenvio Solutions can be contacted at sustainableacademe@gmail.com or greenviosolutions@gmail.com.

About Us

● History

BITM SUSTAINA SUSTAINABLE SDG Group is a dedicated initiative focused on promoting the United Nations' Sustainable Development Goals (SDGs) through various sustainability-driven activities and technical solutions.

The initiative was spearheaded by Mrs. Nilam Chedda and Dr. V Veena, who took the lead in establishing an Eco Club aimed at fostering sustainability throughout the BITM campus. Their proposal was presented to the Principal of BITM, who recognized its significance and officially approved it.

To encourage student participation, registrations for the club were conducted via a Google Form. The club's name, "BITM SUSTAINA," was suggested by Prutivi Raj (CSE-DS student) and the official logo was designed by Tushar(CSE-AIML student).

The first President of the Club is Mr. Sanjay P S, who plays a key role in leading and organizing various initiatives.

● Objectives

- To Provide sustainable technical solutions to environmental challenges
- To conduct hands-on workshops on sustainability and green technologies.
- To organize plantation drives to enhance greenery.
- To Implement an effective waste management plan.
- To Arrange industrial visits to sustainability-focused plants.

With a strong vision for environmental responsibility, BITM SUSTAINA continues to inspire students and the campus community to adopt sustainable practices and create a lasting impact.

Who are we ?

Chairperson: Dr. Yadavalli Basavaraj

Dr. Yadavalli Basavaraj, Chairperson, is a dedicated leader committed to sustainability and environmental stewardship. Through his guidance, he fosters eco-friendly initiatives, supports waste reduction efforts, and encourages sustainable practices, inspiring students and the community to actively participate in creating a greener future.

Club counsellor: Mrs. Nilam Chheda

Mrs. Nilam Chheda, Club Counsellor of the BITM Sustaina SDG Group, follows a zero-waste lifestyle and is devoted to fostering a greener future through awareness, education, and community engagement. She actively promotes sustainable practices by organizing eco-friendly events and advocating sustainability across the campus and the broader community to inspire lasting change. She motivates everyone around her to adopt a zero-waste lifestyle.

IPR Advisor: Dr. Naseeruddin

Dr. Naseeruddin advocates for sustainable innovation by guiding students in patenting ecofriendly solutions. He bridges intellectual property and sustainability, fostering green technology development and responsible innovation.

Activity co-ordinator: Dr. Santhosh V Janamatti

Dr. Santosh Janamatti is an Assistant Professor specializing in sustainability, energy efficiency, and waste reduction. He empowers businesses to adopt eco-friendly practices, organizes sustainability events like "Zero Waste Week," and champions reducing waste through recycling and minimizing single-use plastics.

Activity co-ordinator: Mrs. Brunda

Mrs. Brunda actively promotes sustainability by organizing eco-friendly events and engaging students in green initiatives. She fosters awareness on waste reduction, recycling, and sustainable living, inspiring responsible environmental practices.

Cohort Team:

Chemistry Department: Dr. V Veena

Dr. V. Veena, Assistant Professor, emphasizes the importance of education, self-belief, and hard work for future success. Actively engaged in sustainability education and research, her work focuses on innovative battery technologies, recyclable polymers, energy-saving catalysis, and renewable energy. As a participant in BITM Sustaina Sustainable Club events, she encourages practical sustainability by guiding students in proper waste disposal, including plastic, food wrappers, and e-waste management.

Physics Department: Mrs. Revathi U

Mrs. Revathi integrates sustainability into physics education, emphasizing energy efficiency and renewable resources. She actively participates in eco-friendly initiatives, inspiring students to adopt sustainable practices in daily life.

ECE Department: Mrs. Chandrakala B.A

Chandrakala B. A., an Assistant Professor with an M.Tech in VLSI and ES, believes in fostering a cleaner environment for future generations through small yet impactful actions. She promotes sustainability by planting trees, raising awareness about environmental care, and training others to do the same. Her contributions include coordinating a tomato-growing challenge, interviewing prospective club members, and guiding eco warriors on initiatives like proper dustbin placement and reducing plastic usage. She also emphasizes the importance of civic responsibility and sustainability in her engagements.

CSE Department: Mrs. Steffi Nivedita S

S. Steffi Nivedita is an Assistant Professor with an MTech in CSE. She advocates for preserving the planet's health by responsibly using natural resources, reducing waste, and conserving biodiversity through practices like composting and the 3Rs—Reduce, Reuse, Recycle. She evaluated first and second-phase project presentations on 31/07/2024 and 26/09/2024, respectively.

MBA Department: Mr. Mohammed Khalid R

Mr. Khalid advocates for sustainable business practices, emphasizing eco-friendly entrepreneurship and corporate responsibility. He inspires students to integrate sustainability into management strategies for a greener future.

CSE - AI Department: Mrs. Prema

Prema, an Assistant Professor encourages embracing mistakes and failures as part of growth and emphasizes sustainable practices such as the 3Rs—Reduce, Reuse, Recycle— and composting.

AIML Department: Mrs. Kavya Sree K

Kavya Sree K., an Assistant Professor believes in transforming failures into stepping stones to success. She promotes environmental conservation through tree planting, choosing organic products, and advocating practices like going paperless, conserving energy, and saving water.

Mechanical Department: Mr. Irayya Shikkerimath

Irayya Shikkerimath is an Assistant Professor dedicated to sustainability and environmental stewardship. Beyond teaching, he actively supports NSS activities, waste management, and disposable solutions, contributing to a sustainable future and mentoring students in eco-friendly initiatives at BITM.

Civil Department : Mr. Vinay kumar Hungund

Vinaykumar Hunagund is an Assistant Professor dedicated to eco-conscious practices. He integrates eco-friendly principles into his professional and personal life, promoting eco-bricks, plantation efforts, reducing single-use plastics, and adopting water-saving measures like rainwater harvesting.

EEE Department: Mrs. Nagapratyusha B

Naga Pratyusha B is an Assistant Professor committed to fostering sustainability by using eco-friendly practices and inspiring others to do the same. She has participated in sustainability programs, judged student projects, and organized awareness initiatives to promote environmental consciousness among students.

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Office bearers :

President: Mr. Sanjay P S (3BR22EC146)

Sanjay P. S., a BE ECE student and Student President, advocates for regeneration, restoration, and renewal. Dedicated to learning and sharing sustainable practices, he has led impactful initiatives like banning plastic and organizing plantation drives. He also emphasizes integrating sustainability into curriculum development and research projects to promote longterm environmental stewardship

Vice President: M Usha Priya(3BR22CS175)

M. Usha Priya, a dedicated advocate for sustainability, actively leads eco-friendly initiatives as Vice President of BITM Sustaina. She promotes green practices through awareness campaigns, tree plantations, and waste reduction programs, inspiring students to adopt a sustainable lifestyle.

Secretary: Mr. M Pavan Sai (3BR22EC085)

M. Pavan Sai, a BE ECE student and Secretary of BITM Sustaina Sustainability Club, strives to grow and contribute meaningfully by embracing challenges and promoting sustainability. He led impactful initiatives like recycling drives, green workshops, and campaigns to foster eco-awareness. His team's project was among the top 15 in IIT Madras's Carbon Zero Challenge, focusing on reducing carbon emissions. Pavan champions campus-wide waste segregation, recycling systems, and student-led community gardens while advocating for sustainable habits like minimizing waste and conserving energy.

Treasurer: Mr. Sathvik V S (3BR22CS149)

Sathvik V. S., a BE CSE student and Treasurer at BITM-SUSTAINA, aims to achieve success and bring happiness to his parents. He promotes sustainability by integrating solar power into projects like plastic bottle vending machines, lithium-ion battery recycling, and eco-brick initiatives. Personally, he supports eco-friendly practices, including waste minimization and recycling. As a treasurer, he actively participates in club activities, leads initiatives such as plantation drives, and champions eco-awareness through workshops, green audits, water conservation, green transport, and composting projects.

Auditor: Ms. Rehamath Unnissa (3BR22EC132)

Rehamath Unnissa, B.E., is an auditor at Sustaina, committed to promoting sustainability both professionally and personally. She ensures compliance with environmental standards, advocates waste reduction, and champions eco-friendly practices through initiatives like waste management visits, plantation drives, and awareness campaigns on sustainability.

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Event details

1. Club Inauguration of BITM Sustaina SDG Group

The BITM SUSTAINA (SDG) Group was inaugurated on 28 February 2023 with the objective of promoting sustainability and providing technical solutions to environmental challenges. The event was graced by eminent guests Dr. Doddashanayya, Environmental officer, KSPC board & Mr. Rudresh, Commissioner, City Corporation, who emphasized the importance of sustainable living, waste management, pollution control, and their impact on public health. Faculty members encouraged students to adopt eco-friendly practices within the campus and in daily life. Mrs. Nilam C, Club counsellor inspired students to actively participate as eco-warriors and marked a significant step towards fostering a culture of sustainability at BITM. Vision, Mission and Objectives were discussed by Dr. Naseeruddin, IPR Advisor. Dr. Veena read Student's Pledge for following sustainable practices.

Sustainable Development goals achieved:

- **SDG 3** – Good Health and Well-being
- **SDG 11** – Sustainable Cities and Communities
- **SDG 12** – Responsible Consumption and Production
- **SDG 13** – Climate Action
- **SDG 17** – Partnership for the goals

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2. Sustaina Club Webinar: One Tree One Student

The Sustaina Club Webinar was successfully conducted by the BITM NSS Unit in alignment with the AICTE *One Student One Tree 2023* initiative at the BITM Auditorium. The event aimed to promote environmental awareness and encourage sustainable practices among students and staff. The session was inaugurated by watering a plant, symbolizing the importance of tree plantation, and featured a keynote address highlighting the role of youth in environmental conservation. With active participation from faculty members and over 250 students, the event effectively inspired attendees to contribute towards a greener and more sustainable future.

On the occasion of World Environment Day – 2023 & one student one tree initiative, a plantation drive was also organized and successfully conducted by the Department of Chemistry in association with ICC, IQAC, NSS, and BITM Sustaina, on 20-07-2023 at the BITM campus, Allipur, Ballari. The program was initiated with the objective of creating awareness about environmental protection, promoting sustainable living practices, and emphasizing the urgent need for afforestation to combat climate change and ecological degradation. Faculty members addressed the gathering, highlighting the significance of conserving natural resources and the role of youth in building a greener future. As part of the drive, around 60 saplings of various plant species were planted at selected locations across the campus to enhance greenery and improve the overall campus ecosystem. A total of 60 students and 09 faculty members actively participated in the activity, demonstrating enthusiasm, teamwork, and a strong sense of environmental responsibility. The event not only contributed to increasing green cover but also instilled a sense of social commitment and collective responsibility among the participants towards protecting and preserving the environment for future generations.

SDGs achieved

- **SDG 4** - Quality Education: Creating awareness and educating students on sustainability practices

- **SDG 11** – Sustainable Cities and Communities Encouraging greener and healthier surroundings.
- **SDG 13** – Climate Action: Promoting tree plantation to combat climate change.
- **SDG 15** - Life on Land: Supporting afforestation and protection of terrestrial ecosystems.

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3. Sanganakallu Trekking Program

The BITM Sustaina Club successfully organized the Sanganakallu Trekking Program as an eco-awareness initiative to promote environmental responsibility, physical fitness, and heritage conservation among students. The eco-trek began with participants assembling at the BITM campus followed by a brief orientation on eco-friendly trekking and heritage conservation. The group then travelled to Sanganakallu and commenced the trek, exploring the historic hills, prehistoric rock formations, the ecological and archaeological significance of the Sanganakallu hills and natural landscapes. Throughout the trek, guidance was provided by Dr. Manjunath on the importance of preserving natural and cultural heritage by following sustainability practices and environmental responsibility. The event concluded with a reflection session and the Zero-Waste Trekking Pledge leaving students motivated towards teamwork, environmental commitment, and responsible citizenship.

SDGs achieved

- **SDG 3** – Good Health and Well-Being
- **SDG 4** – Quality Education
- **SDG 11** – Sustainable Cities and Communities
- **SDG 15** – Life on Land

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4. Waste Management Plant Visit

Participants gained enhanced awareness about pollution, its causes, and its impact on public health and the environment. Students developed a sense of responsibility towards pollution control and sustainable living practices. The program encouraged active participation in waste management and community environmental initiatives. Attendees were motivated to adopt eco-friendly habits and contribute towards reducing their environmental footprint.

SDGs achieved:

- **SDG 3** – Good Health and Well Being SDg 4
- **SDG 11** – Sustainable Cities and Communities
- **SDG 12** – Responsible Consumption and Production
- **SDG 13** – Climate Action

- **SDG 15** – Life on Land

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5. Eco brick Workshop

The Eco-Bricks workshop titled “Towards Plastic Pollution” was successfully conducted on 3rd January 2024 to create awareness about plastic waste management and sustainable environmental practices. The session highlighted the concept of eco-bricks as an effective method to reuse non-biodegradable plastic waste and reduce environmental pollution. Participants were introduced to the process through explanations and demonstrations, followed by active involvement in preparing eco-bricks. The event encouraged responsible consumption, promoted a plastic-free campus initiative, and inspired participants to adopt eco-friendly habits, thereby contributing towards sustainable cities and environmental conservation.

SDGs achieved:

- **SDG 11:** Sustainable Cities and Communities
- **SDG 12:** Responsible Consumption and Production
- **SDG 13:** Climate Action
- **SDG 14:** Life Below Water
- **SDG 15:** Life on Land
- **SDG 17:** Partnerships for the Goals

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6. Tomato growing challenge

The 15-week "Tomato Growing Challenge" was a community-based initiative promoting sustainable agriculture, healthy eating, and environmental responsibility by encouraging individuals to grow tomatoes at home. Participants learned about organic farming, composting, and water conservation through digital workshops and peer engagement. The program led to increased sustainability awareness, healthier habits, and greater community participation.

The Tomato Growing Challenge successfully fulfilled its goals of engaging communities in sustainable practices, fostering agricultural literacy, and reinforcing the value of food. The initiative not only contributed to individual growth but also brought communities together under a common cause aligned with global development objectives.

SDGs achieved:

- **SDG 2:** Zero Hunger
- **SDG 3:** Good Health and Well-being
- **SDG 6:** Clean Water and Sanitation
- **SDG 11:** Responsible Consumption and Production
- **SDG 13:** Climate Action
- **SDG 17:** Partnerships for the Goals
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7. World Environment Day

The event was organized to commemorate World Environment Day 5th June, 2024 with a focus on land restoration, combating desertification, and building drought resilience. It aimed to raise awareness among students and faculty about current environmental challenges and the importance of sustainable land and ecosystem management. Through expert talks and interactive discussions, participants gained valuable insights into environmental protection measures, climate action, and individual responsibilities toward sustainability. The program successfully encouraged environmental consciousness and motivated attendees to adopt eco-friendly practices in their daily lives.

SDGs achieved :

- **SDG 6 – Clean Water and Sanitation**
- **SDG 13 – Climate Action**
- **SDG 15 – Life on Land**

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8. Plantation drive

Plantation Drive is held on 10th and 11th June 2024 Ballari Forest Department area near BITM College. BITM SUSTAINA Sustainable group in association with NSS. Dr. Santosh V Janamatti was the Event Co-ordinator and Sanjay P S and Sathvik V S were the Student Co-ordinators of the event. On June 1st 2024, BITM SUSTAINA Club submitted the Requesting letter for Issuance of Samplings to Forest Department and Horticulture Department. Later club has received 100 saplings 50 plants from Forest Department and 50 plants from Horticulture Department. Totally we had received the 50 registrations from club for Plantation drive event.

Plantation Drive Day – 1

On 10th June 2024 all the registered club members had gone to forest Department area for digging 50 pots were dug by all the club members on day 1. It was a really great experience to all us that we are going to closely to nature and getting connected to it.

Plantation Drive Day -2

On 11th June 2024 along with the 50 registered club members another 50 students from Kishkinda university and 5 MBA student had joined for the event. All the participants of club had actively participated in the event. BITM Principal had come to our plantation event we had received positive feedback from the sir. Totally we planted 100 plants around the forest department area.

SDGs achieved:

- **SDG 3:** Good Health and Well-being
- **SDG 11:** Sustainable Cities and Communities
- **SDG 13:** Climate Action
- **SDG 15:** Life on Land
- **SDG 17:** Partnerships for the Goals

https://drive.google.com/drive/folders/1Gp85tTIYyauipit16AFPawrT0uW2d2ty?usp=drive_link

9. Ban of Single use plastic

Great Initiative taken by BITM SUSTAINA Sustainable Club that ***BAN ON SINGLE USE CUTLERIES*** from 15 July 2024. This Ban includes paper cups, disposable plates, spoons, bowls, plastic bottle and straws. A small change brought great impact in our Campus ***Our BITM Coffee Day and canteen from today they have started giving coffee in steel glass and snacks in steel plate.***

SDGs achieved:

- **SDG 11:** Sustainable Cities and Communities
- **SDG 12:** Responsible Consumption and Production
- **SDG 13:** Climate Action
- **SDG 15:** Life on Land

https://drive.google.com/drive/folders/1z6RLQVrwz-jgJV5WE8FEu87AFzP3DMG1?usp=drive_link

10. Student Committee Inauguration

During the event, students presented their projects, highlighting the problems they aimed to solve, the methodology they used, and the results they achieved. The presentations were followed by a question-and-answer session, where the Club Counsellor, Mrs. Nilam C and IPR Advisor, Dr. Naseeruddin, comprising of Cohort members and students, engaged with the presenters, providing feedback and suggestions.

The event was a huge success, with student participating and presenting their projects. The event achieved its objectives of promoting sustainability, fostering scientific and social awareness, and encouraging students to work towards achieving the sustainable development goals.

SDGs achieved:

- **SDG 13:** Climate Action
- **SDG 16:** Peace, Justice and Strong Institutions
- **SDG 17:** Partnerships for the Goals

https://drive.google.com/drive/folders/1bziHtsZEXY2GmUyVGXaUK4GDGd3arNcj?usp=drive_link

11. Social Outreach Program

The BITM Sustaina Sustainable Club conducted a Social Outreach Program on 23rd August 2024 under the theme “Awareness of Sustainability” to extend environmental education beyond the campus and into the community. The offline program focused on spreading awareness about sustainable living practices, waste reduction, resource conservation, and environmental protection. Club members actively interacted with participants, delivered informative sessions, and encouraged practical actions such as minimizing plastic usage, maintaining cleanliness, and adopting ecofriendly habits in daily life. The initiative aimed to instill a sense of collective responsibility and empower individuals to contribute towards a cleaner and greener society. Overall, the event strengthened community engagement, enhanced students’ leadership and communication skills, and reinforced the club’s commitment to promoting sustainability at the grassroots level.

SDGs achieved:

- **SDG 4** – Quality Education
- **SDG 11** – Sustainable Cities and Communities
- **SDG 12** – Responsible Consumption and Production
- **SDG 13** – Climate Action
- **SDG 15** – Life on Land

https://drive.google.com/drive/folders/1_LOBFj0RUXJw-xNpCz1BkV5-vMOgWR1-?usp=drive_link

12. Induction program to the freshers

The BITM SUSTAINA Sustainable Group successfully planned an event as part of the Student Induction Program on September 26th, 2024. The event's primary objectives were to emphasize student responsibility and raise knowledge of environmental sustainability. The purpose of the event was to develop civic sense among the students and also raise awareness of the negative impact of plastic pollution on the environment in order to teach students about sustainable trash management, a focus was placed on demonstrating how used plastic might be converted into environmentally acceptable bricks.

Talk on Civic Responsibilities

In order to help students understand their responsibilities as members of society, the event began with a civic awareness talk. Topics covered included maintaining clean public areas and managing waste properly,

emphasizing how even small daily actions can have a significant impact on creating a well-organized and environmentally friendly community.

Quiz

The presentation ended with a development-focused quiz designed to check participants' knowledge of important topics such as waste management strategies and renewable energy sources, as well as their awareness of environmental conservation initiatives.

Eco brick activity

At the end of the day, everyone came together for a practical workshop on creating eco bricks from recycled plastic materials to use as building blocks of bigger ones. This is a creative way to address the problem of plastic waste and encourage participants to switch to sustainable practices while providing valuable information on waste management and recycling initiatives in a fun and visible way.

In conclusion.

The event conducted by BITM SUSTAINA Sustainable Group at student induction program was a huge success! The agenda's combination of workshops and practical experiences helped participants understand their civic duties and how they might support environmental initiatives. The students' positive comments demonstrated the initiative's effectiveness in increasing environmental preservation awareness.

SDGs achieved:

- SDG 4: Quality Education
- SDG 11: Sustainable Cities and Communities
- SDG 12: Responsible Consumption and Production
- SDG 13: Climate Action
- SDG 16: Peace, Justice and Strong Institutions

https://drive.google.com/drive/folders/1sk9uB-oFyjJUhfOzHz7GOMJqU5oHakT?usp=drive_link

13. Campus Washroom Audit (Resource Management)

The washroom audit was conducted on 8th October 2024 to evaluate water conservation practices, hygiene standards, and overall sanitation conditions within the campus facilities. The team inspected washroom infrastructure to identify leakages, water wastage, and maintenance issues while assessing cleanliness and availability of essential amenities. Observations were systematically recorded, and areas requiring immediate attention were noted. Based on the findings, practical and sustainable improvement measures were suggested to enhance hygiene, reduce water wastage, and ensure a safe and well-maintained environment. A detailed audit report was prepared and submitted to the concerned authorities for further action.

SDGs achieved:

- **SDG 3:** Good Health and Well-being
- **SDG 6:** Clean Water and Sanitation
- **SDG 12:** Responsible Consumption and Production
- **SDG 9:** Industry, Innovation and Infrastructure
- **SDG 11:** Sustainable Cities and Communities

https://drive.google.com/drive/folders/1a_bk1GUZbT6aVXp69X42vvErpKKJXy9N?usp=drive_link

14. Intellectual Property Rights (IPR) and its Importance for Innovators

& Entrepreneurs

Dr. Naseeruddin, the resource person, outlined various types of Intellectual Property Rights (IPRs) in both the Indian and global contexts. He explored the history of patents and other IPRs worldwide. The significance of the knowledge economy was also introduced to the participants, emphasizing the role of intangible assets in the economic growth of countries and tech giants like Apple, Samsung, Microsoft, and Google. Dr. Naseeruddin further discussed the critical importance of IPR protection for startups and entrepreneurs. A case study was presented, focusing on the nurturing of various startups in relation to IPR. The participants were highly engaged and excited to learn about the importance of being innovative and protecting their innovations.

SDGs achieved:

- **SDG 4:** Quality Education
- **SDG 8:** Decent Work and Economic Growth
- **SDG 9:** Industry, Innovation and Infrastructure
- **SDG 16:** Peace, Justice and Strong Institutions
- **SDG 17:** Partnerships for the Goals

https://drive.google.com/drive/folders/146P-d-xVkp35YhKysAaXstYKqWByT0Rs?usp=drive_link

15. Induction Program of Batch 2 Eco Warriors

The Inauguration of Batch-2 Eco Warriors under the BITM Sustaina SDG Group was successfully conducted on 12th December 2024 to welcome and induct new members into the club's sustainability initiatives. The program began with a formal inauguration ceremony, followed by addresses from dignitaries highlighting the importance of environmental responsibility and youth participation in achieving Sustainable Development Goals. The session provided an overview of the club's vision, mission, and upcoming activities, encouraging students to actively contribute to campus and community sustainability efforts. The event concluded with a collective pledge, marking the beginning of a renewed commitment towards environmental conservation and responsible citizenship

SDGs achieved :

- **SDG 4** – Quality Education
- **SDG 13** – Climate Action
- **SDG 16** - Peace, Justice and Strong Institutions

https://drive.google.com/drive/folders/1LqeV4rl5aq3NavFkNDvUxRH_iPRr7APw?usp=drive_link

16. Recruitment drive Buddy Warriors

The Recruitment Drive commenced with an introduction to the BITM Sustaina Sustainable Club and its vision towards achieving Sustainable Development Goals. The session highlighted the opportunities available for members, including sustainability projects, leadership roles, and mentorship support. Interested students were guided through the registration process using the QR code and informed about the selection procedure.

The program concluded with an interaction session to clarify doubts and encourage active participation.

The BITM Sustaina Sustainable Club successfully conducted a Recruitment Drive on 5th March 2025 to induct enthusiastic and socially responsible students into its sustainability initiatives. The program introduced participants to the club's vision, mission, and ongoing projects aligned with the Sustainable Development Goals. Students were

informed about opportunities for leadership, mentorship, and active involvement in environmental and community-based activities, and were guided through the registration process. The drive witnessed an encouraging response, strengthening the club's membership base and fostering a renewed commitment towards promoting sustainability within the campus and beyond.

SDGs achieved :

- **SDG 4:** Quality Education
- **SDG 11:** Sustainable Cities and Communities
- **SDG 16:** Peace, Justice and Strong Institutions
- **SDG 17:** Partnerships for the Goals

https://drive.google.com/drive/folders/183PzWr-SP2xPgkLC7Rc9SWpjlvsQ0ix?usp=drive_link

17. World Environment Day 2025

World Environment Day (WED) is celebrated annually on 5 June and encourages awareness and action for the [protection of the environment](#). The World Environment Day 2025 theme in India, as globally, is "Beat Plastic Pollution". This theme emphasizes the need to tackle the escalating plastic waste crisis and highlights the importance of finding real solutions to end plastic pollution. Plastic pollution permeates every corner of the planet. For decades, plastic pollution has seeped into every corner of the world and by 2040, plastic leakage to the environment is predicted to grow by 50 per cent. These pollutants creep into our bodies through leaching into the water we drink, into the food we eat and even the air that we breathe. While plastic pollution is a major concern, it is also one of the most fixable of today's environmental challenges, with some obvious solutions at hand. World Environment Day 2025 calls for collective action to tackle plastic pollution.

SDGs achieved:

- **SDG 9:** Industry, Innovation and Infrastructure
- **SDG 12:** Responsible Consumption and Production
- **SDG 13:** Climate Action
- **SDG 17:** Partnerships for the Goals

18. Eco Aura Workshop

The Eco-Aura Workshop – 2025, organized by the BITM Sustaina SDG Group, was a hands-on innovation program designed to empower students to develop sustainable solutions to real-world challenges under the theme “Problem Me – Solution We.” Conducted over multiple weekends, the workshop provided participants with mentorship, practical training in prototype development, and exposure to innovation methodologies.

Students actively engaged in teamwork, design thinking, and project presentations, gaining valuable insights into incubation and IPR opportunities. The event successfully fostered creativity, entrepreneurial mindset, and a strong commitment towards sustainable development and impactful innovation.

SDGs achieved:

- **SDG 4:** Quality Education
- **SDG 9:** Industry, Innovation and Infrastructure
- **SDG 12:** Responsible Consumption and Production
- **SDG 13:** Climate Action
- **SDG 16:** Peace, Justice and Strong Institutions
- **SDG 17:** Partnerships for the Goals

https://drive.google.com/drive/folders/1UjzpfelFHFAhoa6BcR18AaE0XNSbzbvTj?usp=drive_link

19. Valedictory Function

The Valedictory Function of the Eco Aura Workshop – 2025 marked the successful conclusion of the innovation program organized by the BITM Sustaina SDG Group. The event provided a platform for participants to present their projects and share key insights gained during the workshop. Certificates and appreciations were distributed to students, mentors, and coordinators in recognition of their dedication and efforts. The program concluded with encouraging remarks from the dignitaries, reinforcing the importance of sustainable innovation and motivating students to continue contributing towards impactful environmental solutions.

SDGs achieved:

- **SDG 4:** Quality Education
- **SDG 9:** Industry, Innovation and Infrastructure
- **SDG 17:** Partnerships for the Goals
- **SDG 8:** Decent Work and Economic Growth

https://drive.google.com/drive/folders/1_dv0MertNgvnpu93wU_KqQFM8pwLNUI-?usp=drive_link