

**Workshop Report**  
**on**  
**Solid Waste Management and**  
**Sustainability**

Session 2024-25



**Organized By**  
**Department of Chemistry**  
**Morigaon College**  
**782105**

*Assunima Sama*

Head  
Department of Chemistry  
Morigaon College

## Report on Solid Waste Management and Sustainability Workshop

**Date:** 06/11/2024

**Venue:** New Conference Hall, Morigaon College

**Organized by:** Department of Chemistry

**Speaker:** Prof. Pradip Baishya, Mechanical Engineering Department, Assam Engineering College, Jalukbari Guwahati

**Mrs. Binita Baishya,** Proprietor, Eco Waste Management Guwahati, Assam

**Objective of the Workshop:** The workshop aims to empower undergraduate science students with knowledge and skills to address pressing environmental challenges through effective solid waste management practices. It seeks to create awareness about the environmental and social implications of improper waste disposal and to inspire sustainable habits in everyday life.

A primary objective is to educate students on the fundamentals of solid waste management, including waste segregation, recycling, and composting, while emphasizing the significance of reducing waste at the source. The workshop will also explore the role of innovative technologies and strategies in managing waste sustainably and mitigating its environmental impact.

Through interactive sessions and hands-on activities, participants will gain practical insights into sustainable practices, such as converting organic waste into compost, upcycling materials, and implementing the principles of the 3Rs (Reduce, Reuse, Recycle). Additionally, the program aims to foster environmental stewardship, encouraging students to act as advocates for sustainability within their communities.

By linking the workshop to global challenges like climate change and the circular economy, it also aims to inspire students to explore research and career opportunities in the field of environmental science, equipping them to contribute meaningfully to a more sustainable future.

**No. of Participants:** 162

### Workshop Structure

#### Session 1: Understanding Solid Waste Management

- Overview of solid waste types: organic, recyclable, hazardous, and electronic.
- Sources and impacts of waste on ecosystems and human health.
- Discussion on the global waste crisis and the importance of adopting a circular economy.

#### Session 2: Principles of Waste Management

- Introduction to the 3Rs (Reduce, Reuse, Recycle) and their implementation.
- Techniques for waste segregation at the source.

- Understanding the lifecycle of materials and resource recovery.

### **Session 3: Practical Demonstrations and Activities**

- Hands-on training in composting organic waste using simple and advanced techniques.
- DIY upcycling projects to transform waste into useful products.
- Conducting waste audits to assess and manage waste at the institutional level.

### **Session 4: Sustainability in Action**

- Interactive discussions on case studies showcasing successful waste management initiatives.
- Exploring innovative technologies in waste management, such as bio-digesters and waste-to-energy systems.
- Identifying ways to integrate sustainable practices into personal and community life.

### **Session 5: Advocacy and Career Opportunities**

- Strategies for raising awareness and fostering sustainable behaviours in communities.
- Introduction to career opportunities and research areas in waste management and environmental science.
- Inspiring students to lead projects addressing waste management challenges.

### **Expected Outcomes**

By the end of the workshop, participants will:

1. Gain a deep understanding of solid waste management concepts and their relevance to sustainability.
2. Acquire practical skills in waste segregation, recycling, and composting.
3. Be equipped to implement sustainable practices in daily life and advocate for environmental responsibility.
4. Develop a critical perspective on global waste issues and identify actionable solutions.
5. Be motivated to explore further studies, research, or careers in the field of environmental sustainability.

### **Conclusion**

The Solid Waste Management and Sustainability Workshop is an engaging and informative platform for undergraduate science students to learn about pressing environmental challenges and the ways they can contribute to building a sustainable future. By combining theoretical knowledge with practical activities, the workshop empowers participants to take meaningful action, fostering a generation of environmentally conscious individuals prepared to address global sustainability goals.

Photos









Estd. 1964.

MORIGAON COLLEGE  
DEPARTMENT OF CHEMISTRY  
Morigaon, 782105, Assam (INDIA)

Dr. Arunima Sarma, M.Sc., Ph.D(Gau), HoD

9435147228(mobile)

Email: mcchem2021@gmail.com

No. DC/MC/2024/38

Date: 30/09/2024

To  
The Principal  
Morigaon College  
Morigaon, Assam

Subject: Permission for conducting a Workshop and organizing Hands-on Training on Solid Waste Management under DBT Star College Scheme.

Sir,

With due respect I would like to inform you that the department of Chemistry, Morigaon College plans to conduct a workshop on Solid Waste Management in the month of October under DBT Star College Scheme. In addition to this, we are also planning to organize a hands-on training session on the aforesaid topic.

The Workshop on solid waste management is crucial for educating communities about sustainable practices and reducing environmental impact. They empower participants with practical skills and knowledge to effectively manage waste, fostering healthier ecosystems.

Therefore, I request you to grant permission for conducting the Workshop as well as the training programme.

Thank you

Sincerely,

*Arunima Sarma*  
Dr. Arunima Sarma  
HoD, Chemistry  
Morigaon College

*H. G. Das*  
Principal  
Morigaon College

my workshop under direction of

# Solid waste management and sustainability

Person: Prof. Pradip Baishya.  6/11/24

Sign:

Binita Baishya.

  
6/11/24

Sign:

Signatures

Resignation

Dr. K. Benthari

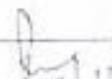
  
06/11/24

Dr. Kumar

  
06/11/2024

no

Secretary ASC (Municipality) Mangaluru

  
6/11/24

Kumar Harganika, General Secy.

  
06/11

Asst. Secy.

Asst. Prof. Commerce

Dr. Bhattacharyee

  
06/11/24

Dr. Deep Chetia, Dept of  
Education, Mangaluru College  
Abdul Gani ASM

  
06/11/24

  
06/11/2024

Dr. Satish 6/11/2024.

# Student Signal

S/N	Full Signal	
1	Rimi Nath	
2	Kuchi Bordoloi Hukaj	
3	Prastuti Das	
4	Nipa Basumatary (Research Scholar)	
5	Marsha Deka	
6	Sukanya Devi	
7	Meknaj Yasmin	
8	Shikha Nath	
9	Bahul Kumar Kanati	
10	Dagari Nath	
11	Spolish Hazarika	
12	Kaushik Kamal Nath	
13	Khadyot Kishore Nath	
14	Abhilash Patra	
15	Ibon Kumar Nath	
16	Hemjit Hazarika	
17	Susmita Biswas (3 <sup>rd</sup> Sem)	
18	Jugamita Ronghangpi (3 <sup>rd</sup> Sem)	
19	Tanita Deka (3 <sup>rd</sup> Sem)	
20	Kuldeep Deka (1 <sup>st</sup> Sem)	
21	Rahul Sarmah (1 <sup>st</sup> Sem)	
22	Nitman Jyoti Borra (1 <sup>st</sup> Sem)	
23	Madhuja Deka (1 <sup>st</sup> Sem)	
24	Sarvam Das (3 <sup>rd</sup> Sem)	
25	Ujjal Kanati (3 <sup>rd</sup> Sem)	
26	Gourav Shankar Kanati (3 <sup>rd</sup> Sem)	
27	Profishman Boruah (BSc 3 <sup>rd</sup> Sem)	
28	Rudra Baglari (BSc 1 <sup>st</sup> Sem)	
29	Abhishek Lakshari (BSc 1 <sup>st</sup> Sem)	
30	Prabin Chakraborty (BSc 1 <sup>st</sup> Sem)	

# Student Signature

Full Signature	Department
Manab Jyoti Bhuyan (1st Sem)	Chemistry
Ash Kumar Deka (BSc 1st Sem)	3-Minor
Rishi Deuri (1st Sem)	Botany
Sibal Borchakadi (1st Sem)	Physics
Aryan Nath (1st Sem)	Mathematics
Abdullah Ahmed (1st Sem)	Physics
Ahman (BSc 1st Sem)	Chemistry
Ahmed (BSc 1st Sem)	Chemistry
Anshu Das (BSc 1st Sem)	Chemistry
Anshu Deka (BSc 1st Sem)	Chemistry
Arbab Majumdar (B.Sc 1st Sem)	Physics
Jyoti Raja (B.Sc. 1st Sem)	3-Minor
Arun Sarman (B.Sc. 1st Semester)	Chemistry
Arif Ali (B.Sc 1st Semester)	Chemistry
Ashutosh (B.Sc. 1st Semester)	Botany
Ashutosh Ullah (B.Sc. 1st Sem)	Chemistry
Ashutosh (B.Sc 1st Sem)	Botany
Ashutosh Hussain (B.Sc. 2nd Sem)	Chemistry
Ashutosh Deka (B.Sc 1st Sem)	Chemistry 3-Minor
Ashutosh (B.Sc 1st Sem)	Zoology
Ashutosh Rahman (BSc 1st Sem)	Zoology
Ashutosh (BSC 1st Sem)	Botany
Ashutosh Deuri (B.Sc 1st Sem)	Physics
Ashutosh Jyoti Nath (B.Sc 1st Sem)	Physics
Ashutosh Nath (Bsc. 1st Sem)	Physics
Ashutosh Patra (B.Sc 3rd Sem)	Zoology
Ashutosh Deuri (B.Sc. 3rd Sem)	Zoology
Ashutosh Roybansli (3rd Sem)	Zoology
Ashutosh (3rd Sem)	Zoology
Ashutosh Ahmed (3rd Sem)	Maths
Ashutosh Fakhin (3rd Sem)	Maths
Ashutosh Borah (1st Sem)	3-Minor

S/A	Full Signature
65	Habiba Begum
66	Deepannita Dey
67	Soomoni Devi B.Sc. 1st sem
68	Rishmi Karkoti B.Sc. 1st sem
69	Prishi Reka Deka B.Sc. 1st Sem
70	Niharika Devi B.Sc. 1st sem
71	Sabiqun Nihar (B.Sc. 1st sem)
72	Ritumoni Deka B.Sc. 1st sem
73	Darshana Deka (B.Sc. 1st sem)
74	Rajwara Sultana (B.Sc. 1st Sem)
75	Ashita Kalita (B.Sc. 1st Sem)
76	Rishi Choudhary (B.Sc. 1st sem)
77	Sarika Yasmin (B.Sc. 1st sem)
78	Mami Akhara Begum (B.Sc. 1st Sem)
79	Anjan Mandal (B.Sc. 1st Sem)
80	Mitha Borla (B.Sc. 1st Sem)
81	Himanshu Nath (B.Sc. 1st sem)
82	Bhargab jyoti Chanda (B.Sc. 1st S)
83	Mayuri Boro (B.Sc. 1st sem)
84	Anshurita Nayany (B.Sc. 1st sem)
85	Parineta Devi (B.Sc. 1st sem)
86	Jaganish Sarkar (B.Sc. 1st sem)
87	Pantia Pratim Haldar (B.Sc. 1st sem)
88	Jyoti Chakraborty (B.Sc. 1st sem)
89	Dipamoni Deka (B.Sc. 3 <sup>rd</sup> sem)
90	Pratibha Karkoti (B.Sc. 3rd sem)
91	Torvi Borla (B.Sc. 3rd Sem)
92	Mamab jyoti Nath (B.Sc. 3rd Sem)
93	Rishi Deka (B.Sc. 3rd Sem)
94	Uday Kr. Nath (B.Sc. 3rd Sem)
95	Kamjam Borla (B.Sc. 1st sem)
96	Jyankumar Medhi (B.Sc. 1st sem)

Full Signature	Dept
Sunajit Deka (B.Sc 1st Sem)	3 Minor
opshikha Patra (B.Sc 1st Sem)	Botany
aharnaw Pathak (B.Sc 1st Sem)	Physics
stasree Patra (B.Sc 1st Sem)	3 Minor
an patra (B.Sc 1st Sem)	3 Minor
nkana patra (B.Sc 1st Sem)	3 Minor
pimona Boudoi (B.Sc 1st Sem)	Botany
beta Khutum (B.Sc 1st Sem)	Zoology
arani Devi (B.Sc 1st Sem)	Zoology
ni Saikia (B.Sc 1st Sem)	3 Minor
amita Mola (B.Sc 1st Sem)	3 Minor
a Kakati (B.Sc 1st Sem)	Zoology
lita Mandal (B.Sc 2nd Sem)	Zoology
anibar Rahman (B.Sc 1st Sem)	Chemistry
Riya Nath (B.Sc 1st Sem)	Maths
Layanika Goswami (B.Sc 1st Sem)	Maths
adhamita Saha (B.Sc 1st Sem)	Maths
abruja Fardousi (B.Sc 1st Sem)	3 Minor
adoosi Laila	Maths
as Nandhya (B.Sc 1st Sem)	Zoology
ina Khutum (B.Sc 1st Sem)	3 Minor
ina Khutum (B.Sc 1st Sem)	Chemistry
fa Afroz (B.Sc 1st Sem)	Zoology
ishwari Devi (B.Sc 1st Sem)	Chemistry
an Paul (B.Sc 3rd Sem)	Botany
nabha Rani (B.Sc 3rd Sem)	Zoology
bi Ajrouj (B.Sc 2nd Sem)	Zoology
ja Begum (B.Sc 1st Sem)	Chemistry
hjebin Ahmed (B.Sc 1st Sem)	3 Minor
niti rekha Patra (B.Sc 1st Sem)	Zoology
otika Devi (B.Sc 1st Sem)	Zoology
rpida Akhtar (B.Sc 3rd Sem)	Zoology

132	Omra Khushbu Jahan	B.Sc 1st sem
133	Chayanika Kakati	B.Sc 1st Sem
134	Bhaiswati Deka	B.Sc 1st Sem
135	Apsara Begum	B.Sc 1st sem
136	Manuza Jinnat Ahmed	B.Sc 1st sem
137	Kapil Kaur Singh	B.Sc 1st sem
138	Vijal Deka	B.Sc 1st sem
139	Nilam Hazarika	B.Sc 1st Sem
140	Hirak Jyoti Nath	B.Sc 3rd Sem
141	Bedanta Bikash Bora	B.Sc 3rd Sem
142	Samima Khatun	B.Sc 1st Se
143	Sumita Bhowan	B.Sc 1st Sem
144	Eusupri Mazumdar	B.Sc 1st sem
145	Afsana Nasir	B.Sc 1st Se
146	Jashib Agram	B.Sc 1st Sem
147	Umati Faruk	B.Sc 1st Sem
148	Yahiwa Rahmatullah	B.Sc 1st Sem
149	Fareed Islam	B.Sc 1st sem
150	Inamul Hossain	B.Sc 1st sem
151	Abhijit Nath	B.Sc 1st sem
152	Bhaskar Jyoti Nath	B.Sc 1st Sem
153	Eklas Uddin Ahmed	B.Sc 1st sem
154	Bedoni Lalwari	B.Sc 1st sem
155	Washim Akram	B.Sc 1st sem
156	Sanku Das	B.Sc 1st sem
157	Abhishek Singhani	B.Sc 1st sem
158	Abhisit Nath	B.Sc 1st sem
159	Arum Bora	B.Sc 3rd Sem
160	Rudraj Banerjee	B.Sc 3rd Sem
161	Dipankar Deka	B.Sc 3rd Sem
162	Nishan Chakraborty	B.Sc 3rd Sem