



PROGRAMME REPORT

PROGRAMME TITLE:

“Certificate Course on Solid Waste Management with EDP Inputs”.

PROGRAMME DESCRIPTION:

Solid waste management has gained much importance in recent times with the increase in population coupled with the expansion of urban and suburban areas. The problems of waste generation and its disposal are being felt in major cities across the country as well as the rural areas. To combat the ever growing problems relating to solid waste, a well planned management strategy should be implemented.

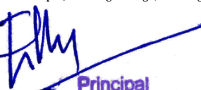
Shillong College, through the Department of Environmental Science and Entrepreneurship Development Cell would like to take the initiative of starting a certificate course on solid waste management and encourage innovative ideas and business ventures with regard to the subject matter. This course will involve the inculcation of knowledge and basic training to the participants which is necessary for setting up a proper waste management practice.

IMPORTANCE OF PROGRAMME:

The menace of solid waste is a real threat to human health, water resources, biodiversity and the ecosystem as a whole. Haphazard waste disposal can lead to spread of diseases and upset ecological balance which would greatly affect the environment of which we too are a part of. Implanting the ideology of civic sense by encouraging and contributing to waste management practices can greatly reduce the risk of dangers posed by solid waste pollution.

The city of Shillong is also not immune to issues relating to solid waste management. Disposal by open dumping, lack of waste segregation, minimal recycling and an almost absent waste reduction process are just a few of the problems that one can identify with ease. There is a major room for improvement in this sector and therein lies a huge potential for proper waste management, awareness and the entrepreneurship possibilities with regard to bio-fertilizer, waste recovery, recycling, energy recovery etc.

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Principal, Shillong College, Shillong



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OBJECTIVES:

- Educate participants about solid waste management
- Basic training in solid waste management techniques
- Encourage innovation through composting, recycling and reusing of waste material
- To reduce environmental degradation caused by solid waste (long term)

DURATION OF THE PROGRAM:

The programme will be carried over a period of 2 months.

TARGET GROUP:

Target group can vary from participants who are interested in SW management from an entrepreneurial point of view to those who want to gather information, knowledge and skills for proper SW management.

EXPECTED OUTCOME:

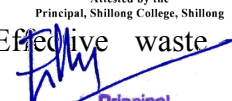
With this programme we hope to encourage the youth to take the mantle of cleaning our city for a better tomorrow as well as to create an environment of self employability in the process.

SUMMARY OF THE PROGRAMME

This course was inaugurated on the 18th of August and enrolled a number of participants. 39 participants have successfully completed the course and are going to be felicitated on the 30th November 2017.

In this course participants were given an informative insight upon the concept, assessment, sources and characterisation of solid waste. Information about proper collection, collection systems, frequency, and transportation of waste was deliberated to the students. Matters relating to the proper management of Hazardous wastes and Bio Medical waste and also their scientific disposal were also taught to the participants. Study materials and lecture on laws and rules which are important in the field of waste management were also part of the course.

Important aspects of solid waste management and how it can be viewed as resource for entrepreneurial ventures was impressed upon the participants. Effective waste

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management processes such as source reduction, segregation, sorting, composting, ~~vermin~~ composting, and disposal methods were part of the curriculum. Reusing and Recycling techniques which prevent materials from entering the waste stream are a great source for entrepreneurial ideas and a number of such techniques were shared with the participants. Another topic that was taught under this course was energy recovery from waste which included pyrolysis, gasification, anaerobic digestion etc.

The course encourages the participants to have an entrepreneurial mindset where they use the different topics being taught to them as a repository for entrepreneurial creativity. To ensure that the participants are equip with knowledge to change their ideas into businesses entrepreneurial development inputs were also taught to them so that they have a proper understanding on how to build a business. The following topics were covered under EDP inputs:

- Developing Entrepreneurial attitude and skills
- Identifying Business Opportunity in Solid waste
- Sources of Funding projects
- Making a business plan
- Legal formalities & taxation policy
- Management of resources (money, men, materials and machines)
- Marketing management.

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Principal, Shillong College, Shillong




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Resource persons:

1. Dr. Marvellous B. Lynser
Assistant Professor
Department of Environmental Science
Shillong College,
Shillong.
2. Br. K. Naronha
Director
Bethany Society
Shillong.
3. Dr. D. Paul
Professor
Department of Environmental Studies
North Eastern Hill University
Shillong.
4. Dr. E. Kharkongor
Associate Professor
Department of Economics
Shillong College
5. Mr. L. Pariat
Associate Professor, Trainer in Composting
Department of English
Shillong College
Shillong
6. Ms. I. Dhar
Research Scholar, Diploma in Geographic Information System.
Department of Environmental Studies
North Eastern Hill University
Shillong
7. Ms. Georgina Jarman Lamare
Trainer in Solid Waste Management
SIPMIU
Shillong.

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8. Mr. Balawan J. Mawrie
Assistant Professor
Department of Environmental Science.
Shillong College
Shillong.
9. Mr. E. Suiting
M.B.A Finance, Resource Person EDC
Shillong College
Shillong.
10. Mr. Eric Dkhar
M.A. Sociology Ecology, Environment and Sustainable Development
Tata Institute of Social Science, Guwahati.
11. Mr. Andrew Umdor
Shillong Municipal Board.
12. Palvy D. Kharkongor
Shillong Municipal Board.

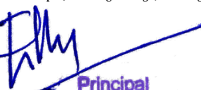
Awareness Programme:

Two participants from the course, namely Mebaaihun Sunabi and Alvareena P. Kahit were selected as resource persons for a Solid Waste Awareness Programme conducted by the NCC unit of Shillong College for the NCC cadets of the college.

Field Trips/training programme:

- Field trips to the Solid Waste Landfill site at Mawiong were undertaken where training in Bokashi composting, vertical composting etc was given to the participants.
- Training for using waste as a resource was done at Bethany Society Shillong
- Another training on recycling and reusing of paper was also conducted at Bethany Society Shillong

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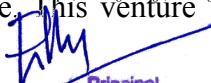
The Two Month Course on Solid Waste Management with Entrepreneurial Development Inputs was conducted by the Department of Environmental Science and Entrepreneurial Development Cell of Shillong College between August and October in 2017. This course entails various aspects of solid waste management and also provided participants of the course with numerous training programs with regard to the subject matter. The course also taught the students about the entrepreneurial potential of using waste as a resource and educated them about the important basics of creating and running a successful business venture.

Academically, with Environmental Science being a compulsory subject and waste management being part of the curriculum, this course will most definitely be advantageous to better understand the different features of waste management, its importance and application. This course has further increased the awareness level of the participants and gives them the ability to spread their knowledge with not only their peers but with other people around them as well. The interactive training sessions that were conducted also gave the participants hands on experience about various waste management techniques which can be used as entrepreneurial ideas in the future to generate self employment if needed.

We also keep in contact with various participants to help and guide them with any queries regarding what they have learnt from the course. We are also happy to share that a few of our participants are engaging with solid waste management practices and a couple of them have initiated small ventures on their own. An insight of their works are as follows:

Mebaaihun Sunabi:

Mebaaihun Sunabi started a home based venture called Organic Tribe.

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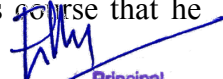


was formed based on inspiration drawn from reducing generation of toxic and hazardous waste which Meba had picked up as a participant of the course. The vision of Organic Tribe is to encourage an eco friendly lifestyle with the products it makes. Organic Tribe produces organic based soap and lip balms which are sold at reasonable rates. Based on information from Ms. Mebaaihun, the demand for her products has been steadily rising. One can make orders from instagram and facebook pages of Organic Tribe or contact Ms. Mebaaihun herself. Containers are also reused and discounts are given to the customers who bring back the containers for refills.



Obedson Lamare:

Mr. Obedson has started Vermi Composting and is now under the process of forming a self help society where various types of work will be carried out and one of them being the production of Vermi-Compost which he had learned during the two months course that he


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attended in the college. Highlighted below is his trail run of making vermin compost by incorporating egg shells and tea leaves.



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Certificate Course on “Solid Waste Management with EDP Inputs”

A Two Month Certificate Course on “Solid Waste Management with EDP Inputs” conducted by the Department of Environmental Science along with the Entrepreneurship Development Cell and Internal Quality Assessment Cell of Shillong College from August-October, 2017 with the financial support from the RUSA Scheme for Equity Assurance.



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As part of the course, a one day seminar on “Solid Waste Management: Importance and Entrepreneurial Opportunities” organized by the Department of Environmental Science, the Entrepreneurship Development Cell and the IQAC, Shillong College on the 30th November, 2017.

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Principal, Shillong College, Shillong

A handwritten signature in blue ink, appearing to be "J. M. J.", is written over a horizontal line.

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PROGRAMME PROPOSAL

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TARGET GROUP:

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EXPECTED OUTCOME:

With this programme we hope to encourage the youth to take the mantle of cleaning our city for a better tomorrow as well as to create an environment of self employability in the process.

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SHILLONG COLLEGE



Assessed and Re-Accredited in 2016 by NAAC as A Grade with CGPA: 3.06

Ref. No. Sc/RUSA/Eq(SWM)/2017-18/1

Date : 04-08-2017

To
Shri. B. Mawrie
Dept. of Environmental Studies
Shillong College.

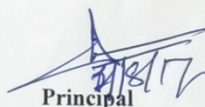
Sub: Work Order for Certificate Course on Solid Waste Management Exam under Equity Assurance Implementation Programme-RUSA.

Sir,

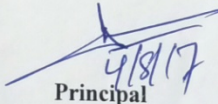
With reference to the subject cited above, I am glad to inform you that the College has appointed you as a Course Coordinator for the said subject. In this connection you are permitted to start the Coaching Class with effect from 21st August 2017 as per the routine and other papers submitted by you.

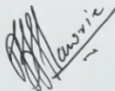
Thanking you.

Yours Sincerely,


Principal

Copy to : Principal Consultant, RUSA, Meghalaya, Shillong


Principal



P.O. Laitumkhras, Shillong – 793003
Meghalaya.

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Page 1 of 1

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