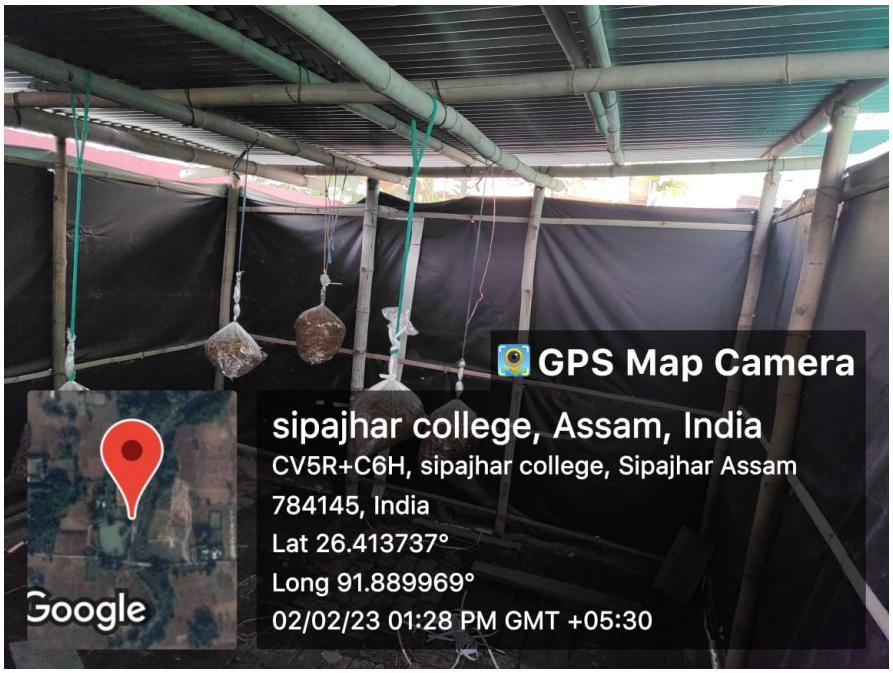
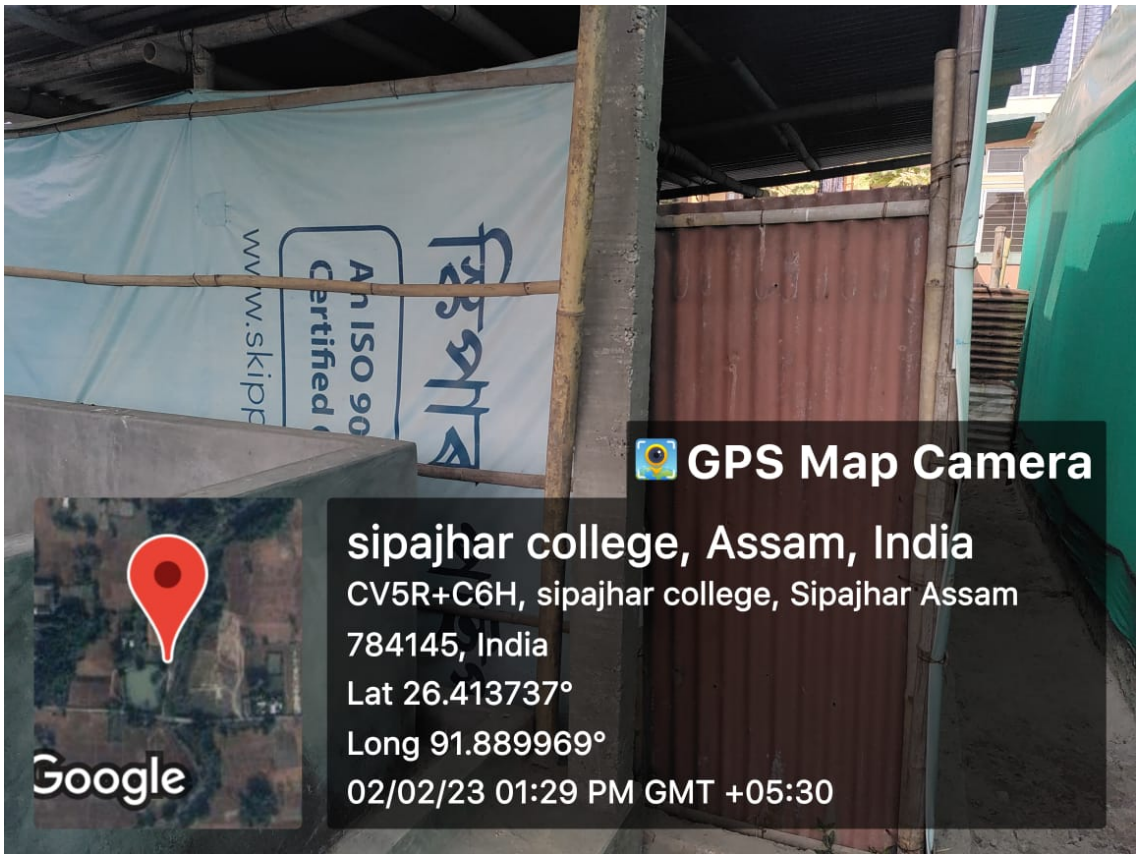
SIPAJHAR COLLEGE (AFFILIATED TO GAUHATI UNIVERSITY)

Supporting Documents for NAAC Self Study Report (SSR) (3rd Cycle)
Period: 2017-2022

Criteria-3	Key Indicator 3.2
Research, Innovations and Extension	Innovation Ecosystem
Metric No : 3.2.1 (ADDITIONAL FILE)	Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge (patents filed, published, incubation center facilities in the HEI to be considered)

1. Mushroom cultivation:



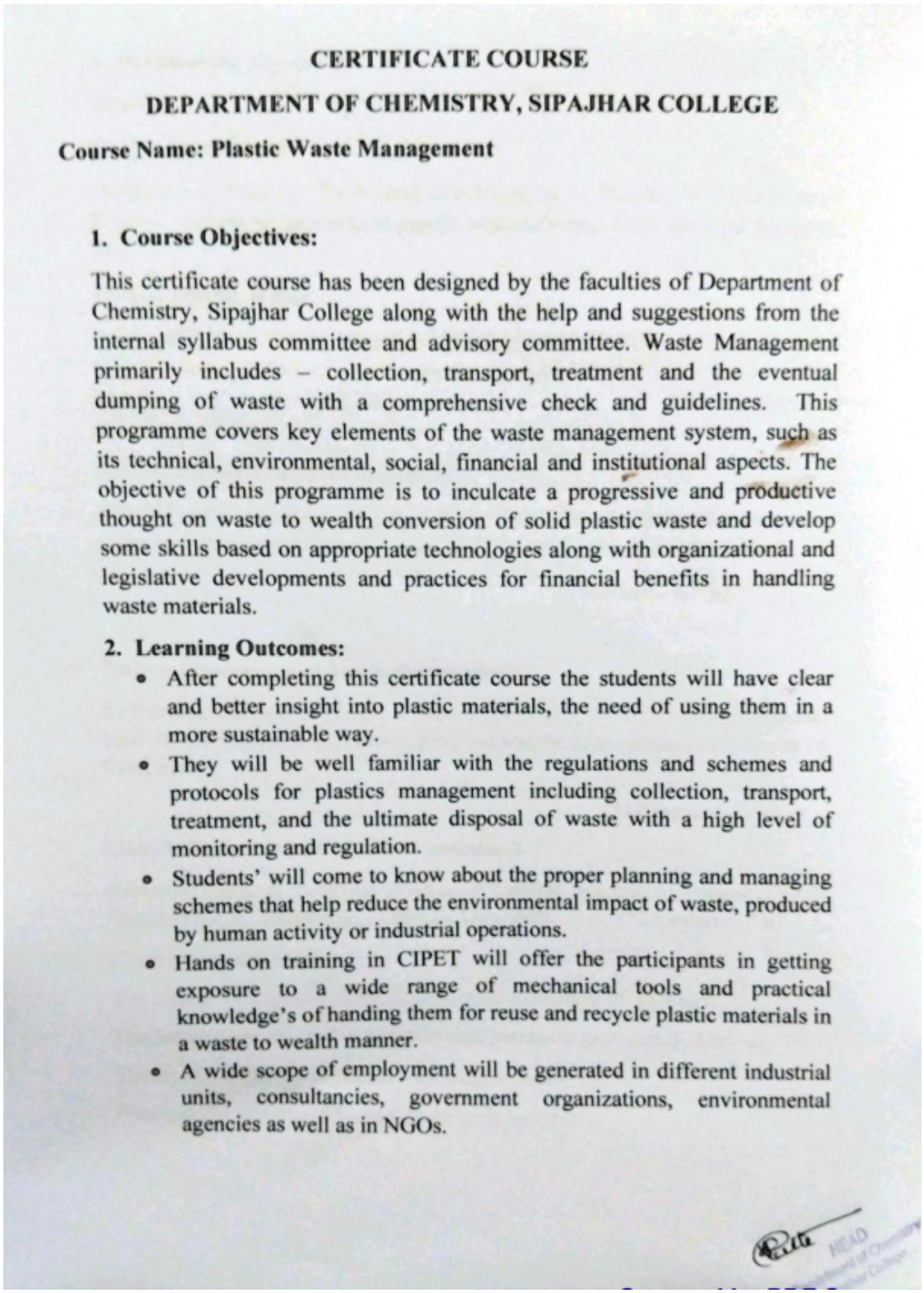

GPS Map Camera
sipajhar college, Assam, India
CV5R+C6H, sipajhar college, Sipajhar Assam
784145, India
Lat 26.413737°
Long 91.889969°
02/02/23 01:29 PM GMT +05:30
Google

2. Vermi composting unit:

3. Green House:

4. Aquarium:

5. Certificate courses:



CERTIFICATE COURSE

DEPARTMENT OF CHEMISTRY, SIPAJHAR COLLEGE

Course Name: Plastic Waste Management

1. Course Objectives:

This certificate course has been designed by the faculties of Department of Chemistry, Sipajhar College along with the help and suggestions from the internal syllabus committee and advisory committee. Waste Management primarily includes – collection, transport, treatment and the eventual dumping of waste with a comprehensive check and guidelines. This programme covers key elements of the waste management system, such as its technical, environmental, social, financial and institutional aspects. The objective of this programme is to inculcate a progressive and productive thought on waste to wealth conversion of solid plastic waste and develop some skills based on appropriate technologies along with organizational and legislative developments and practices for financial benefits in handling waste materials.

2. Learning Outcomes:

- After completing this certificate course the students will have clear and better insight into plastic materials, the need of using them in a more sustainable way.
- They will be well familiar with the regulations and schemes and protocols for plastics management including collection, transport, treatment, and the ultimate disposal of waste with a high level of monitoring and regulation.
- Students' will come to know about the proper planning and managing schemes that help reduce the environmental impact of waste, produced by human activity or industrial operations.
- Hands on training in CIPET will offer the participants in getting exposure to a wide range of mechanical tools and practical knowledge's of handing them for reuse and recycle plastic materials in a waste to wealth manner.
- A wide scope of employment will be generated in different industrial units, consultancies, government organizations, environmental agencies as well as in NGOs.

Department of Mathematics

Sipajhar College, Sipajhar

Introducing a Certificate Course on

Typesetting in LaTeX

Course Duration: 30 hours
Academic Year: 2021-2022
Registration Fee: 200/-
Course Coordinator: Dr. Rupam Haloi

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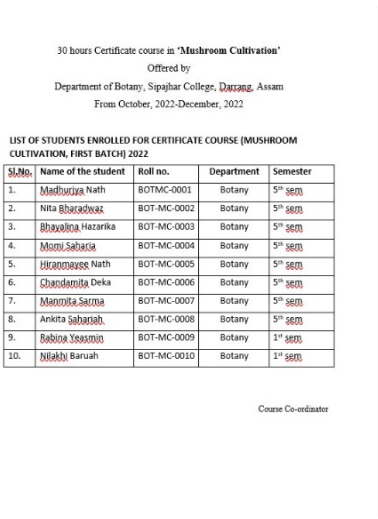
1. **Brief Outline of the Course:**
   Typesetting in LaTeX is basically software learning course in which beginners can learn how to prepare a document, ppt, write articles, or a book using the software LaTeX. If we go for higher studies, to write any scientific documents, articles, ppt related to Mathematics, Physics or Science, the most popularly used software is LaTeX. It is a great opportunity for the students of Sipajhar College that a certificate course in LaTeX is going to be introduced in advance by the Department of Mathematics, Sipajhar College. It is a 30 hours course (15 hours Lectures (L) and 15 hours Practical (P)) that will be covered between October and November 2022.

2. **Course Objective:**
   The main motive is to impart the knowledge and understanding about LaTeX system, explain the procedure of LaTeX typesetting and familiarize the participants with various document formats of LaTeX and enable them to prepare research articles, thesis, books, and presentations with confidence. The broad objectives of the course are:
   - To understand LaTeX, a document preparation system for high – quality typesetting.
   - To understand features of LaTeX.
   - To have hands on experience to become a user of LaTeX.
   - To get motivated in learning to typeset regional language such as Assamese through LaTeX.

3. **Course Outcome:**
   After completion of the course, students will be able to learn:
   - Typesetting of complex mathematical formulae using LaTeX.
   - Use tabular and array environments within LaTeX.
   - Use various methods to either create or import graphics into a LaTeX document.
   - Typesetting of journal articles, technical reports, thesis, books, and slide presentations.
   - Automatic generation of table of contents, bibliographies and indexes.
   - Writing regional language in LaTeX.

The detail syllabus of the course is as follows:



30 hours Certificate course in **'Mushroom Cultivation'**

Offered by

Department of Botany, Sipajhar College, Darrang, Assam

From October, 2022-December, 2022

LIST OF STUDENTS ENROLLED FOR CERTIFICATE COURSE (MUSHROOM CULTIVATION, FIRST BATCH) 2022

Sl.No.	Name of the student	Roll no.	Department	Semester
1.	Madhuriya Nath	BOTMC-0001	Botany	5th sem
2.	Nita Bharadwaz	BOT-MC-0002	Botany	5th sem
3.	Bhavajina Hazarika	BOT-MC-0003	Botany	5th sem
4.	Momi Saharia	BOT-MC-0004	Botany	5th sem
5.	Hiranmayee Nath	BOT-MC-0005	Botany	5th sem
6.	Chandamita Deka	BOT-MC-0006	Botany	5th sem
7.	Manmita Sarma	BOT-MC-0007	Botany	5th sem
8.	Ankita Sahariah	BOT-MC-0008	Botany	5th sem
9.	Rabina Yeasmin	BOT-MC-0009	Botany	1st sem
10.	Nilakhi Baruah	BOT-MC-0010	Botany	1st sem

Course Co-ordinator

COTTON UNIVERSITY
DEPARTMENT OF BOTANY
Panbazar, Guwahati-1, Assam (India)

hod.botany@cottonuniversity.ac.in
www.cottonuniversity.ac.in

Date: 21.10.2022

To
Dr Karabi Devi
Associate professor
Sipajhar College
Mangaldoi, Assam

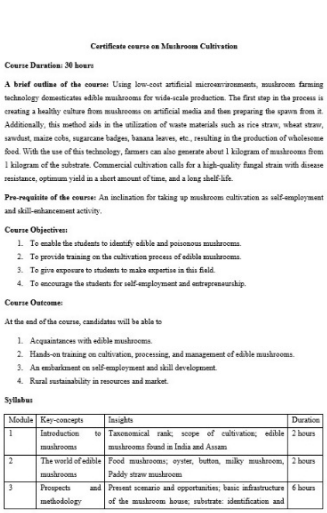
Sub: Recommendation for proposed Certificate course

Dear Dr Karabi Devi
The proposal for certificate course on Mushroom cultivation will be fruitful for the students. I wish to add some points in your objectives. Second objective may change to: To provide training on the cultivation process of edible mushrooms for home and commercial purposes. And in fourth objective if your authority permits you can add local youth and farmers along with students.
Your Proposal is recommended for further official process.

Thanks and Regards

Dr Manmita Sarma
Head, Department of Botany
Cotton University
Guwahati

Head of the Department
Department of Botany
Cotton University, Guwahati-1
Assam



Certificate course on Mushroom Cultivation

Course Duration: 30 hours

A brief outline of the course: Using low-cost artificial microenvironments, mushroom farming technology domesticates edible mushrooms for wide-scale production. The first step in the process is creating a healthy culture from mushrooms on artificial media and then preparing the spawn from it. Additionally, this method aids in the utilization of waste materials such as rice straw, wheat straw, sawdust, maize cobs, sugarcane badges, banana leaves, etc., resulting in the production of wholesome food. With the use of this technology, farmers can also generate about 1 kilogram of mushrooms from 1 kilogram of the substrate. Commercial cultivation calls for a high-quality fungal strain with disease resistance, optimum yield in a short amount of time, and a long shelf-life.

Pre-requisite of the course: An inclination for taking up mushroom cultivation as self-employment and skill-enhancement activity.

Course Objectives:

1. To enable the students to identify edible and poisonous mushrooms.
2. To provide training on the cultivation process of edible mushrooms.
3. To give exposure to students to make expertise in this field.
4. To encourage the students for self-employment and entrepreneurship.

Course Outcome:

At the end of the course, candidates will be able to

1. Acquaintances with edible mushrooms.
2. Hands-on training on cultivation, processing, and management of edible mushrooms.
3. An embarkment on self-employment and skill development.
4. Rural sustainability in resources and market.

Syllabus

Module	Key-concepts	Insights	Duration
1	Introduction to mushrooms	Taxonomical rank; scope of cultivation; edible mushrooms found in India and Assam	2 hours
2	The world of edible mushrooms	Food mushrooms; oyster, button, milky mushroom, Paddy straw mushroom	2 hours
3	Prospects and methodology	Present scenario and opportunities; basic infrastructure of the mushroom house; substrate: identification and	6 hours

6. Rain Water harvesting & ground water recharge system:

Rain water harvesting & ground water recharge set-II

Rain water harvesting set-I


Supreme
People who know plastics best
SILTANK
SILTANK
Overhead Water Tanks
LONG LASTING
SILTANK
Overhead Water Tanks
Supreme
People who know plastics best
SILTANK
SILTANK
LONG LASTING
SILTANK

7. Solar Panel:

Solar panel-I Infront of the administrative building

Solar panel-II Infront of the Guest House

8. Tobacco Free Campus:

District Health Society & District Tobacco Control Cell
Darrang
TOBACCO FREE INSTITUTION

Certificate

This is to certify that **Sipajhar College** is declared as
"*Tobacco Free Educational Institute*"
under District Health Society - NTCP(National Tobacco Control Programme)
Darrang on 26th October 2022.

Arzoo Dutta	Dr. N.K Beriya	Dr. Harpal Singh Suri	Pranab Kumar Sarmah
Senior Consultant NTCP - Assam	District Nodal Officer DHS - NTCP, Darrang	Joint Director of Health Services Darrang	Deputy Commissioner cum Chairman DHS - NTCP, Darrang

9. Wildlife protection & conservation: