



**CHRIST**  
COLLEGE (AUTONOMOUS)  
IRINJALAKUDA, KERALA  
Reaccredited by NAAC with 'A++' grade



**NORTHAMPS**  
*Leading to Zero Waste*

**CERTIFICATE COURSE  
ON  
SCIENTIFIC WASTE  
MANAGEMENT**

**BY DEPARTMENT OF  
ENVIRONMENTAL SCIENCE**

**Resource person  
Dr.Navya  
R&D Executive  
Northamps Global**

**FROM  
JANUARY 22  
TO  
FEBRUARY 27**

**Coordinator  
Dr. Rekha V B  
Assistant Professor**

**Principal  
Rev. Fr. Dr. Jolly Andrews CMI**



**"Empowering students, igniting their dreams"**

SYLLABUS FOR SCIENTIFIC WASTE MANAGEMENT BY NORTHAMPS GLOBAL

Date	Time	Host	Topic
22.1.2024	6.30-7.15	Dr.Navya	Introduction to scientific waste management
23.1.2024	6.30-7.28	Dr.Navya	Classification of solid wastes
24.1.2024	6.30-7.20	Dr.Navya	Waste categorization and treatment at household and commercial levels.
25.1.2024	6.30-7.21	Dr.Navya	Non- biodegradable waste management
27.1.2024	2.15-2.40	Dr.Navya	RDF process, its advantages and disposal of non-biodegradable waste
29.1.2024	6.40-7.10	Dr.Navya	Domestic sanitary waste management & MHM guidelines
30.1.2024	6.30-7.10	Mrs. Suvarna	Hazardous waste management
31.1.2024	6.15-7.10	Dr.Suvarna	Chemical waste management
1.2.2024	6.30-7.04	Dr.Suvarna	Biomedical waste- definition, causes, classification
2.2.2024	6.25-7.05	Dr.Suvarna	Types of biomedical waste, segregation and management

3.2.2024	11-11.45	Dr. Ajitha	Biomedical waste continuation
6.2.2024	6.22-7.00	Dr. Suvarna	Biomedical waste;treatment and disposal
7.2.2024	6.15-7.05	Dr.Navya	E-waste and its management
8.2.2024	6.30-7.05	Dr. Suvarna	Biomedical waste,transportation
9.2.2024	6.25-7.10	Dr. Navya	Plastic types and recycling
12.2.2024	6.15-7.05	Dr. Navya	Metals, scrap metal, scrap processing and metal recycling
13.2.2024	6.15-6.52	Dr. Navya	Glass recycling
14.2.2024	6.30-7.15	Dr. Suvarna	Sewage, its consequences and treatment
15.2.2024	6.15-7.10	Dr. Suvarna	Water quality parameters,
16.2.2024	6.15-7.05	Dr. Suvarna	ETP, Sludge treatment
17.2.2024	6.30-7.10	Dr. Suvarna	Liquid waste treatment
21.2.2024	6.35-7.00	Dr. Navya	Bioplastics, their uses and advantages
22.2.2024	6.35-7.05	Dr. Suvarna	Circular economy, its principles and potential

23.2.2024	6.15-7.10	Dr.Suvarna	Awareness and eradication for scientific waste management
24.2.2024	11-11.45	Dr.Suvarna	Global climate change
26.2.2024	6.15-7.00	Dr.Suvarna	Zero waste initiatives
27.2.2024	6.30-7.15	Dr.Navya	Summary of the whole sessions and employment opportunities.

**NORTHAMPS**

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**C E R T I F I C A T E**

OF ACHIEVEMENT



THIS CERTIFICATE IS PROUDLY AWARDED TO

*Ms. Anjaly Jose*

First year MSc Environmental Science student of Christ College (Autonomous), Irinjalakuda, for her (**EXCELLENT**/GOOD/SATISFACTORY) performance in the 30hrs Certificate Course in "Scientific Waste Management" in the month of February 2024.

*Zakaria Joy*  
Mr. Zakaria Joy

Director



*Dhanya KR*  
Dr. Dhanya K R

Project Head

CHRIST COLLEGE (AUTONOMOUS) IRINJALAKUDA  
VALUE ADDED CERTIFICATE COURSE PRACTICAL EXAMINATION-2023  
By  
NORTHAMPS  
SCIENTIFIC WASTE MANAGEMENT - CPCC46

TIME: 2 Hours

MAX. MARKS: 50

Answer all the questions.

1. Explain Primary and Secondary treatment Techniques [1x25 = 25]
2. Explain tertiary treatment techniques. [1x25 = 25]

TOTAL: 50 MARKS

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## **Summry Report**

Each session was followed by a daily assessment as google form with at least three questions regarding the topic taken. This continuous evaluation process made the classes more efficient. Classes were presented as power point slides and a video was also shown at times, demonstrating the treatment of solid wastes, done by either Northamps Global itself or other reputed firms. The knowledge shared on solid wastes, their types and treatment methods and guidelines gave us the insight to focus on proper management of solid wastes scientifically and environmental conservation. The final session was on 27<sup>th</sup> February 2024, which comprised the summarized version of whole classes taken, scope and employment opportunities in this field. Also students shared their experience and expressed gratitude on behalf of their college. The course completed with a final assessment consisting of twenty questions of two marks each on 28<sup>th</sup> February 2024.