XI-AC-1<sup>st</sup> 22.08.2024

## **Annexure VII**

Programme: M.Sc. Part-II (Chemistry)

Course Code: CHV-501

Title of the course: Basic course in Waste Management (Value added course)

Number of Credits: **02** Total Hours: **30** Effective from AY: **2024-25** 

Prerequisites for the course:	Should have enrolled for M.Sc. any specialization of Biochemistry	Chemistry and	
Course Objective:	To understand the problems related to waste generation a methods and process for waste treatment  To provide exposure of govt facilities and industrial setup in twaste management	•	
Learning outcome:	Student will be able to understand basic concept of waste mand analyze how day to day human activities relates to various types of waste.  Students will be able to identify methods for waste manavarious types of waste.  Students will get working exposure of processes and govt ar setup in the state for domestic and industrial waste treatments.	ous types of agement for and industrial	
	Content	Hrs	
Solid waste manag waste,Concepts of Municipal solid w	gement, Principles and Procedures, Types of Waste gement, Principles, Processing, treatment and disposal of solid waste reduction, recycling and reuse. aste and Hazardous waste; as of municipal solid waste management.	15	
Hazardous was characterization,H waste managemer	azardous waste treatment technologies , safe disposal, e- nt		
Sustainability, Env	ironmental impact, Case studies		
Field trips – Solid waste management facilities / Industry facilities in goa (Minimum 2)		15	
Pedagogy	Lectures / Seminars /videos/ assignments / presentations / sel trip/study tour or a combination of some of these can also be should be preferred. Sessions should be interactive in nature t group learning.	used. ICT mode	

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Textbooks /
References

- 1. Ameer Mubaslat, Introduction to waste management, 2021 ISBN: 978-9957-67-886-9.
- 2. Ebikapade Amasuomo & Jim Baird, The Concept of Waste and Waste Management, Journal of Management and Sustainability; Vol. 6, No. 4; 2016, 88-96.
- 3. United Nation Economic and Social Commission for Asia and the Pacific https://www.unescap.org/sites/default/files/CH08.PDF
- 4. Solid Waste Management (Volume I), United Nation Environment Programme, ISBN: 92-807-2676-5
- 5. Waste to Resources: A Waste Management Handbook, TERI press 2014
- 6. Manual on Municipal Solid Waste Management, Central Public Health and Environmental Engineering Organisation, Ministry of Urban Development, Government of India 2016

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