

As Per NEP 2020

Tolani College of Commerce (Autonomous)



Title of the Course: Solid Waste Management

Semester II

Name of the Course: Solid Waste Management

Sr. No.	Heading	Particulars
1	Description the course:	The course is an introductory course to waste management. It aims to familiarise the learners with the concepts of waste and waste management and sensitise the learners about issues associated with improper waste management.
2	Vertical:	Value Education Course
3	Type:	Theory
4	Credit:	2 credits

5	Hours Allotted:	30 Hours
6	Marks Allotted:	50 Marks Continuous Evaluation 20 Marks Semester End Examination 30 Marks
7	Course Objectives: <ol style="list-style-type: none"> 1. To introduce the learner to the basic concept of waste 2. To sensitise the learners about the need for waste management 	
8	Course Outcomes: The learners shall: <ol style="list-style-type: none"> 1. understand the fundamentals of waste management 2. a develop a sense of environmental responsibility 	

9	<p>Module 1: Introduction to waste (15 Hours)</p> <ol style="list-style-type: none"> Know Your Waste: Definition, Concept, Classification, Types of Waste, Waste generation in Mumbai E-waste: Introduction to e-waste, Definition, Types, Disposal of e-waste, Sources of e-waste Problems associated with e-waste Plastic Waste: Introduction to plastic, Types of Plastic, Uses of plastic, Sources of Plastic waste, Problems associated with plastic waste Bio-medical waste: Introduction to biomedical waste, Types of Biomedical waste, Sources of Biomedical waste, Problems associated with biomedical waste <p>Module 2: Solid Waste Management (15 Hours)</p> <ol style="list-style-type: none"> Introduction to Waste Management: Definition, Concept, Need and Importance of waste solid management, Problems associated with improper Solid Waste Management Effects of Improper Solid Waste Management: Improper methods of Solid Waste Management, Impact of improper Solid Waste Management: Health hazards, Environmental Impacts Method of Solid Waste Management: Methods for Solid Waste Management, Effective Waste Management Concepts, Concept of Waste Management Pyramid, Concept of Zero Waste Municipal Solid Waste Management: Concept, Functional elements of Municipal Solid Waste Management, Solid Waste Management in Mumbai, Role of Citizens in Municipal Waste Management
10	<p>Reference Books:</p> <ol style="list-style-type: none"> Barrow C J, 2005: Environmental Science, Routledge Publications Botkin D.B. & Keller E.A., 1995 : Environmental Science, John Wiley & Sons, New York Brunner R.C., 1989, Hazardous Waste Incineration, McGraw Hill Inc. 480p McKinney M.L. & Schoch R.M., 1998: Environmental Science, Jones & Bartlett Publishers, London Mhaskar A.K., Matter Hazardous, Techno-Science Publication Miller T.G. Jr. Environmental Science, Wadsworth Publishing Co.
11	<p>Other Readings:</p> <ol style="list-style-type: none"> Down to Earth, Centre for Science and Environment
12	<p>Websites:</p> <ol style="list-style-type: none"> https://cpcb.nic.in https://mpcb.gov.in https://unfccc.int/ https://www.downtoearth.org.in/blog/waste/divide-and-conquer-segregation-is-the-key-60597 https://portal.mcgm.gov.in/irj/go/km/docs/documents/Circulars/ALM%20manual.pdf https://portal.mcgm.gov.in/irj/portal/anonymous/qlvarprg https://portal.mcgm.gov.in/irj/go/km/docs/documents/MCGM%20Department%20List/ChiefEngineerSolidWasteManagement/RTI%20Manuals/CESWM RTI E02.pdf https://portal.mcgm.gov.in/irj/portal/anonymous/qlswmfilms https://www.youtube.com/watch?v=pUM58LIU2Lo&t=81s https://www.youtube.com/watch?v=sW 7i6T H78 https://www.youtube.com/watch?v=uAiIGd JqZc&feature=emb_imp_woyt https://cnd.mcgm.gov.in/home/

13	Internal Continuous Assessment: 40%	Semester End Examination: 60%	
14	Continuous Evaluation through:	Class test or Fieldwork-based project work and report or assignment or presentation or report-writing or article/ book review or topic-based activity	20 Marks
15	Format of Question Paper:		
	Question Number	Nature of Questions	Maximum Marks
	1)	Attempt any THREE of the following: (From Module I)	15
	A.		
	B.		
	C.		
	D.		
	2)	Attempt any THREE of the following: (From Module II)	15
	A.		
	B.		
	C.		
	D.		

Signatures of Team Members

Sr. No.	Name	Signature
1.	Mr. Kaustubh Bhagat	