Course: Environmental Management (DJ19ILO8029)

Pre-requisite: Knowledge of environmental science.

Objectives:

- 1. Understand and identify environmental issues relevant to India and global concerns
- 2. Learn concepts of ecology
- 3. Familiarise environment related legislations
- 4. Understand Environmental Auditing Procedures.

Outcomes: On completion of the course, learner will be able to:

- 1. Identify Environmental issues and get familiarized to the concept of Ecosystem and environmental management.
- 2. Know policies and legal aspects and understand EM system standards.
- 3. Understand Environment Impact assessment.
- 4. Understand Environment Auditing procedures.
- 5. Describe Environmental management Techniques.

Environmental Management (DJ19ILO8029)		
Unit	Description	Duration
1	Principles of Environmental management (EM): Introduction of EM, Definition,	
	Ecosystem concept, Participants in EM, Ethics and the environment, International	08
	Environmental Movement, Environmental issues relevant to India.	
2	Policy and Legal Aspects of EM: - Introduction to various Environmental Policies, Indian	
	and International Environmental laws and legislation.	10
	EM system Standards: - Core Elements, Benefits, Certification Body Assessment &	
	Documentation for EMS, ISO- 14000 Standards.	
3	Environmental Impact Assessment (EIA) :- Purpose, steps, hierarchy of EIA,	
	Environmental Impact Statement and Impact Indicators, Evolution of IA in India and	10
	worldwide. Preliminary stages of EIA, Impact, Prediction, Evaluation and Mitigation.	
4	Environmental Auditing (EA):- Objectives, Scope and Types of EA, Audit Methodology,	06
	Elements of Audit Process, Auditing of EMS.	06
5	Environmental Management Techniques: - Environmental Monitoring and Modelling,	
	Environmental technology Assessment and Environmental Risk Assessment, Eco-	08
	mapping.	

Books Recommended:

Text Books:

- 1. Environmental Management, T V Ramachandra and Vijay Kulkarni, TERI Press
- 2. Environmental Management: Principles and Practice, C J Barrow, Routledge, Publishers, London, 1999



Shrı Vile Parle Kelavanı Mandal's

DWARKADAS J. SANGHVI COLLEGE OF ENGINEERING



(Autonomous College Affiliated to the University of Mumbai) NAAC Accredited with "A" Grade (CGPA: 3.18)

Reference Books:

- 1. A Handbook of Environmental Management Edited by Jon C. Lovett and David G. Ockwell, Edward Elgar Publishing
- Indian Standard Environmental Management Systems Requirements with Guidance for Use, Bureau Of Indian Standards, February 2005
- **3.** Environmental Management: An Indian Perspective, S N Chary and Vinod Vyasulu, Macmillan India, 2000
- **4.** Introduction to Environmental Management, Mary K Theodore and Louise Theodore, CRC Press
- **5.** Environment and Ecology, Majid Hussain, 3rd Ed. Access Publishing.2015