LESSON PLAN

Semester: 8th Subject: Environmental Geotechnique

Session: 2015-16 Theory/-Sessional

Branch/ Course: Civil Engineering/ B.Tech. Name of the Faculty Member: Debabrata Giri

Period Module/ Number		Topic to be covered	Remarks/ Sign. of Faculty Member		
1	Module-I	Introduction and scope			
2		Importance of environmental management			
3		Waste generation			
4		types of waste and charactristics			
5		Contamination			
6		Subsurface contamination			
7		Contaminat Transport			
8		Problems Solving			
9		Effect of subsurface Contamination			
10		Geosynthetics types and manufacturing			
11		Application of geosynthitics and economical effect			
12	Module-II	Various forms of wastes			
13		Properties of wastes			
14		Minicipal waste			
15		Mineral waste			
16		Industrial waste			
17		Hazardous wastes and index properties			
18		Strength and compressibility			
19		Permeability of Municipal waste			
20		Permeability of mineral waste			
21	Module-III	Selection of waste disposal Sites			
22		Factors affecting site selection			
23		Siting cretaria and sitting rate			
24		Solid waste contamination			

25		Landfill for hazardous waste			
26		Landfill for municipal waste			
27		Types of Landfill & Various components			
28					
29					
30					
31					
32	Problems dicussion				
33		Landfill constrcution and Operation			
34	Module-IV	Ash pond and mine tailing impoundments			
35		Slurry deposition of mine tailing			
36		Coal ash in impoundments			
37		Layout and components of tailing dam/ash dykes			
38		Ash pond slope stability			
39		Prinicle of remendiation			
40		Planning and source control			
41		soil gas extraction			
42		soil washing			
43		Bioremendiation			

Signature of Faculty Member:

Date: Counter Signature of H.O.D.