

**SARDAR PATEL UNIVERSITY**  
**Programme & Subject: B.Sc (Environmental Science)**  
**Semester: VI**  
**Syllabus with Effect from: November-2013**

<b>Paper Code: US06CENV07</b>	<b>Total Credit: 2</b>
<b>Title of Paper: Practical</b>	

Unit	Description in detail	Weightage (%)
	Types and Composition of Media	<b>100%</b>
	Preparation and Sterilization of Media	
	Various streaking methods for Nutrient agar plate	
	Serial Dilution Technique	
	To study gram staining	
	Study of Cyanobacteria	
	Techniques of Isolation, Inoculation and sub culturing of Algae/ Fungi/ and Bacteria.	
	Study of Micro algae by Drop Method and Hemocytometer method	
	Total Coli forms - MPN Method	
	To study Mushroom cultivation	
	To study Vermiculture	
	To check the motility of bacteria	
	Isolation of Micro-organisms from air	
	Isolation and Identification of Actinomycetes	
	Isolation and Identification of Penicillium	
	Isolation and Identification of Aspergillus	
	Isolation and Identification of Rhizobia	
	Isolation and Identification of Azotobactor	
	Preparation of Winogradsky column to study the micro organisms developed in anoxic water	
	To Isolate Chromium resistant Bacteria from soil sample	
	Bio Removal of chromium using Different Chromium Resistant Isolate	
	Visit to Bio diesel production plant	

