

# **SHRI VENKATESHWARA UNIVERSITY**



**Syllabus**

**For**

**M.Tech. (Environmental Engineering)  
Part-Time**

**(Effective from the Session: 2019-20)**

**Shri Venkateshwara University, Gajraula, Uttar Pradesh**  
**Course and Evaluation Scheme for M. Tech. Course**  
**(Environmental Engineering-PART-TIME)**

(Effective from session 2019-2020)

**SEMESTER IV**

S. No	Subject Code	Name of the Subject	Periods			Credit	Evaluation Scheme					Subject Total
			L	T	P		Theory			Practical		
							CT	TA	ESE	TA	ESE	
1	WEV-045	Solid Waste Management	3	0	0	3	20	10	70	--	--	100
2	WEV-053	Groundwater Management	3	0	0	3	20	10	70	--	--	100
3	WEV-452	Seminar-I	--	--	2	1	--	--	--	50	--	50
<b>TOTAL</b>						<b>7</b>						<b>250</b>

### **WEV-045 Solid Waste Management**

Introduction, Overview of Solid Waste Management, Types of Solid Wastes, Sources of Solid Wastes, Properties of Solid Wastes, Solid Waste Generation, On-site Handling, Storage, Collection, Transfer and Transport, Processing Techniques, Ultimate Disposal, Resource and Energy recovery Systems, Biomedical Waste Management, Introduction to Hazardous Waste and Fly Ash Management, Site selection Criteria for Landfill.

#### **TEXT BOOKS:**

1. George Tchobanoglous, Hilary Theisen and Samuel A, Vigil, Integrated Solid Waste Management, McGraw-Hill, New York, 1993
2. CPHEEO, Manual on Municipal Solid waste management, Central Public Health and Environmental Engineering Organization, Government of India, New Delhi, 2000

### **WEV-053 Groundwater Management**

Introduction, Occurrence of ground water, Hydrological Cycle, Ground water movement, Well Hydraulics and Water Wells, Ground Water quality, Ground Water Modeling Techniques, Surface and Subsurface Investigations of Ground water, Artificial discharge and Recharge of Ground Water, Ground Water Management Techniques.

