

M.E.-ENVIRONMENTAL ENGINEERING
Total Credits to be earned for the award of the Degree: 70
Full Time Curriculum and Syllabus

SEMESTER I									
Course Code	Course Name	L	T	P	C	Maximum Marks			Category
						CIA	ES	Total	
Theory Course									
1701EV101	Statistics For Environmental Engineers	3	2	0	4	40	60	100	FC
1702EV102	Environmental Chemistry	3	0	0	3	40	60	100	PC
1702EV103	Environmental Microbiology	3	0	0	3	40	60	100	PC
1702EV104	Transport of Water and Waste Water	3	0	0	3	40	60	100	PC
1702EV105	Principles and Design of Physico-Chemical Treatment Systems	3	0	0	3	40	60	100	PC
	Elective-I	3	0	0	3	40	60	100	PE
Laboratory Course									
1702EV106	Environmental Chemistry Laboratory	0	0	2	1	50	50	100	EEC
1702EV107	Environmental Microbiology Laboratory	0	0	2	1	50	50	100	EEC
1704EV108	Communication Skills Lab I	0	0	2	1	100	0	100	EEC
Total		18	2	6	22	440	460	900	

SEMESTER II									
Course Code	Course Name	L	T	P	C	Maximum Marks			Category
						CIA	ES	Total	
Theory Course									
1702EV201	Principles and Design of Biological Treatment Systems	3	0	0	3	40	60	100	FC
1702EV202	Air Pollution Monitoring and Control	3	0	0	3	40	60	100	PC
1702EV203	Industrial Waste Management	3	0	0	3	40	60	100	PC
1702EV204	Solid and Hazardous Waste Management	3	0	0	3	40	60	100	PC
1702EV205	Environmental Impact Assessment	3	0	0	3	40	60	100	PC
	Elective II	3	0	0	3	40	60	100	PE
Laboratory Course									
1702EV206	Unit Operations and Processes Laboratory	0	0	2	1	50	50	100	EEC
1704EV207	Communication Skills Lab II	0	0	2	1	100	0	100	EEC
1704EV208	Technical Seminar	0	0	2	1	50	50	100	EEC
Total		18	0	6	21	440	460	900	

SEMESTER III									
Course Code	Course Name	L	T	P	C	Maximum Marks			Category
						CIA	ES	Total	
	Elective III	3	0	0	3	40	60	100	PE
	Elective IV	3	0	0	3	40	60	100	PE
	Elective V (Open)	3	0	0	3	40	60	100	OE
1702EV301	Project Work (Phase I)	0	0	12	6	50	50	100	EEC
Total		9	0	12	15	170	230	400	

SEMESTER IV									
Course Code	Course Name	L	T	P	C	Maximum Marks			Category
						CIA	ES	Total	
1702EV401	Project Work (Phase II)	0	0	24	12	50	50	100	EEC
Total		0	0	24	12	50	50	100	

Part Time Curriculum and Syllabus

SEMESTER I									
Course Code	Course Name	L	T	P	C	Maximum Marks			Category
						CIA	ES	Total	
Theory Course									
1701EV101	Statistics for Environmental Engineers	3	2	0	4	40	60	100	FC
1702EV102	Environmental Chemistry	3	0	0	3	40	60	100	PC
1702EV103	Environmental Microbiology	3	0	0	3	40	60	100	PC
Laboratory Course									
1702EV106	Environmental Chemistry Laboratory	0	0	2	1	50	50	100	EEC
1704EV108	Communication Skills Lab I	0	0	2	1	100	0	100	EEC
Total		9	2	4	12	270	230	500	

SEMESTER II									
Course Code	Course Name	L	T	P	C	Maximum Marks			Category
						CIA	ES	Total	
Theory Course									
1702EV201	Principles and Design of Biological Treatment Systems	3	0	0	3	40	60	100	FC
1702EV202	Air Pollution Monitoring and Control	3	0	0	3	40	60	100	PC
1702EV203	Industrial Waste Management	3	0	0	3	40	60	100	PC
Laboratory Course									
1702EV206	Unit Operations and Processes Laboratory	0	0	2	1	50	50	100	EEC
1704EV207	Communication Skills Lab II	0	0	2	1	100	0	100	EEC
Total		9	0	4	11	270	230	500	

SEMESTER III									
Course Code	Course Name	L	T	P	C	Maximum Marks			Category
						CIA	ES	Total	
Theory Course									
1702EV104	Transport of Water and Waste Water	3	0	0	3	40	60	100	PC
1702EV105	Principles and Design of Physico-Chemical Treatment Systems	3	0	0	3	40	60	100	PC
	Elective I	3	0	0	3	40	60	100	PC
Laboratory Course									
1702EV107	Environmental Microbiology Laboratory	0	0	2	1	50	50	100	EEC
Total		9	0	2	10	170	230	400	

SEMESTER IV									
Course Code	Course Name	L	T	P	C	Maximum Marks			Category
						CIA	ES	Total	
Theory Course									
1702EV204	Solid and Hazardous Waste Management	3	0	0	3	40	60	100	PC
1702EV205	Environmental Impact Assessment	3	0	0	3	40	60	100	PE
	Elective II	3	0	0	3	40	60	100	PE
Laboratory Course									
1704EV208	Technical Seminar	0	0	2	1	50	50	100	EEC
Total		9	0	2	10	170	230	400	

SEMESTER V									
Course Code	Course Name	L	T	P	C	Maximum Marks			Category
						CIA	ES	Total	
	Elective III	3	0	0	3	40	60	100	PE
	Elective IV	3	0	0	3	40	60	100	PE
	Elective V (Open)	3	0	0	3	40	60	100	OE
1702EV301	Project Work (Phase I)	0	0	12	6	50	50	100	EEC
	Total	9	0	12	15	170	230	400	

SEMESTER VI									
Course Code	Course Name	L	T	P	C	Maximum Marks			Category
						CIA	ES	Total	
1702EV401	Project Work (Phase II)	0	0	24	12	50	50	100	EEC
	Total	0	0	24	12	50	50	100	

List of Programme Electives for M.E – Environmental Engineering

Course Code	Course Name	L	T	P	C	Maximum Marks			Category
						CIA	ES	Total	
1703EV001	Air Pollution Meterology and Modeling	3	-	-	3	40	60	100	PE
1703EV002	Climate Change and Modeling	3	-	-	3	40	60	100	PE
1703EV003	Computing Techniques in Environmental Engineering	3	-	-	3	40	60	100	PE
1703EV004	Environmental Biotechnology	3	-	-	3	40	60	100	PE
1703EV005	Environmental Policies and Legislation	3	-	-	3	40	60	100	PE
1703EV006	Environmental System Analysis	3	-	-	3	40	60	100	PE
1703EV007	Land Fill Engineering and Remediation Technology	3	-	-	3	40	60	100	PE
1703EV008	Membrane Technologies for Water and Waste Water Treatment	3	-	-	3	40	60	100	PE
1703EV009	Remote Sensing and GIS Applications in Environmental Management	3	-	-	3	40	60	100	PE
1703EV010	Resource and Energy Recovery from Waste	3	-	-	3	40	60	100	PE
1703EV011	Water Quality Modeling	3	-	-	3	40	60	100	PE
1703EV012	Noise Pollution and Control Engineering	3	-	-	3	40	60	100	PE
1703EV013	Operation and Maintenance of ETP Plants	3	-	-	3	40	60	100	PE
1703EV014	Marine Pollution and Control	3	-	-	3	40	60	100	PE
1703EV015	Environment, Health and Safety for Industries	3	-	-	3	40	60	100	PE

List of Open Electives Offered by the Department of Civil Engineering

Course Code	Course Name	L	T	P	C	Maximum Marks			Category
						CIA	ES	Total	
1704EV020	Research Methodology	3	-	-	3	40	60	100	OE
1704PE021	Environmental Sociology	3	-	-	3	40	60	100	OE
1704EV022	Environmental Instrumentation	3	-	-	3	40	60	100	OE
1704EV023	Cleaner Production and Environmental Management	3	-	-	3	40	60	100	OE