

**RESTRUCTURED CHOICE - BASED CREDIT SYSTEM DEPARTMENT OF
ENVIRONMENTAL SCIENCE, OSMANIA UNIVERSITY**
(Effective from academic year 2015-2017)

SEMESTER - I

THEORY						
Paper	Title	Instruction hrs/Week	Marks			Credits
			Internal	Semester	Total	
ES 101 T	Environmental Chemistry	4	20	80	100	4
ES 102 T	Climatology and Safety Management	4	20	80	100	4
ES 103 T	Air Pollution and control	4	20	80	100	4
ES 104 T	Environmental Instrumentation and analytical Methods	4	20	80	100	4
PRACTICAL						
ES 105 P	Environmental Chemistry	4	-	-	50	2
ES 106 P	Climatology and Safety Management	4	-	-	50	2
ES 107 P	Air Pollution and Control	4	-	-	50	2
ES 108 P	Environmental Instrumentation and analytical Methods	4	-	-	50	2
	TOTAL		-	-	600	24

SEMESTER II

THEORY						
Paper	Title	Instruction hrs/Week	Marks			Credits
			Internal	Semester	Total	
ES 201 T	Environmental Microbiology	4	20	80	100	4
ES 202 T	Ecology and Ecosystem Dynamics	4	20	80	100	4
ES 203 T	Waste water treatment Technology	4	20	80	100	4
ES 204 T	Geo Environment	4	20	80	100	4
PRACTICAL						
ES 205 P	Environmental Microbiology	4	-	-	50	2
ES 206 P	Ecology and Ecosystem Dynamics	4	-	-	50	2
ES 207 P	Waste water treatment Technology	4	-	-	50	2
ES 208 P	Geo Environment	4	-	-	50	2
	TOTAL	-	-	-	600	24

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SEMESTER - III

THEROY						
Paper	Title	Instruction	Marks			Credits
		Hrs/Week	Internal Assessment	Semester Exam	Total	
ES -301 T	Biodiversity and Conservation	4	20	80	100	4
ES -302 T	Water Treatment and Solid Waste Management	4	20	80	100	4
ES -303 T	Remote Sensing and GIS	4	20	80	100	4
ES -304 T	Resource Management	4	20	80	100	4
	Seminar	2	-	-	25	1
PRACTICALS						
ES -305 P	Biodiversity and Conservation	4	-	-	50	2
ES -306 P	Water Treatment and Solid Waste Management	4	-	-	50	2
ES -307 P	Remote Sensing and GIS	4	-	-	50	2
ES -308 P	Resource Management	4	-	-	50	2
	Total	-	-	-	625	25

SEMESTER – IV

THEROY						
Paper	Title	Instruction	Marks			Credits
		Hrs/Week	Internal Assessment	Semester Exam	Total	
ES -401 T	Environmental Biotechnology	4	20	80	100	4
ES -402 T	Environmental Toxicology	4	20	80	100	4
ES -403 T	Environmental Impact Assessment	4	20	80	100	4
ES-404 T	Biofertilizers & Organic Farming	4	20	80	100	4
	Seminar	2	-	-	25	1
PRACTICALS						
ES -404 P	Environmental Biotechnology	4	-	-	50	2
ES -405 P	Environmental Toxicology	4	-	-	50	2
ES -406 P	Environmental Impact Assessment	4	-	-	50	2
	Project Work	8	-	-	100	4
	Total	-	-	-	675	27
	Grand Total Marks and Credits				2500	100