

SACRED HEART COLLEGE (AUTONOMOUS), THEVARA,KOCHI

MSc in Environmental Science

SYLLABUS

Semester I

Course I- FUNDAMENTALS OF ENVIRONMENTALSCIENCE

Course II - RESEARCH METHODOLOGY I

Course III- RESEARCH METHODOLOGY II

Course IV -TECHNIQUES IN RESEARCH

Course V- FIELD STUDY-Fresh water Ecosystem

PRACTICAL I

Semester II

Course VI -EARTH AND ATMOSPHERE

Course VII- DISASTER MANAGEMENT

Course VIII REMOTE SENSING AND GIS

Course IX - ENVIRONMENTAL IMPACT ASSESSMENT

Course X-FIELD STUDY – Marine Ecosystem

PRACTICAL II

Semester III

Course XI - ENVIRONMENTAL POLLUTION AND TOXICOLOGY

Course XII - ENVIRONMENTAL MONITORING AND MANAGEMENT

Course XIII - BIODIVERSITY, CONSERVATION AND SOCIAL ISSUES

Course XIV-FIELD STUDY – Wetland and Mangrove Ecosystem

PRACTICAL III

PRACTICAL IV

Semester IV

Course XV -DISSERTATION: Major Research Project

Course XVI- FIELD STUDY – Forest Ecosystem

Course XVII- INTERNSHIP

Abstract of the Programme

	Code	Course	Hours/ Week	Marks		Total Hours	Credit
				Internal	External		
S E M E S T E R I		Fundamentals of Environmental Science	5	25	75	90	4
		Research Methodology I	5	25	75	90	4
		Research Methodology II	5	25	75	90	4
		Techniques in Research	5	25	75	90	4
		Practical I- Water and soil Analysis, Computer Applications in Research, and Instrumentation	2.5	25	75	45	2
		Field Study - Fresh water ecosystem	2.5	25	75	45	1
		Total	25	150	450	450	19
S E M E S T E R II		Earth and Atmosphere	5	25	75	90	4
		Disaster Management	5	25	75	90	4
		Remote Sensing and GIS	5	25	75	90	4
		Environmental Impact Assessment	5	25	75	90	4
		Practical II- Soil Science, GIS and remote sensing , and Microbiology	2.5	25	75	45	2
		Field Study - Marine Habitat	2.5	25	75	45	1
		Total	25	150	450	450	19
S E M E S T		Environmental Pollution and Toxicology	5	25	75	90	4
		Environmental monitoring and Management	5	25	75	90	4
		Biodiversity, Conservation and Social Issues	5	25	75	90	4