

SYLLABUS
for
BACHELOR OF SCIENCE WITH HONOURS IN
ENVIRONMENTAL SCIENCE
Department of Environmental Science and Disaster Management
Noakhali Science and Technology University
Noakhali-3814, Bangladesh.

Credit Outlines

YEAR	TERMS	TOTAL CREDIT
Year-I	Term I	21
	Term II	21
Year- II	Term I	22
	Term II	21
Year- III	Term I	21
	Term II	21
Year-IV	Term I	21
	Term II	20
Total		168

Year-I, Term-I

Course Code	Course title	Credit point
ESDM 1101	Introduction to Environmental Science	3
ESDM 1103	Fundamentals of Earth Science	3
ESDM 1102	Fundamentals of Earth Science-Lab	1
ESDM 1105	Fundamentals of Chemistry	3
ESDM 1104	Fundamentals of Chemistry-Lab	1
ESDM 1107	Fundamental of Biology	3
ESDM 1106	Fundamental of Biology -Lab	1
ESDM 1109	Functional English	2
ESDM 1111	History of the Emergence of Independent Bangladesh	3
ESDM 1108	Field Work	1
Total		21

Year-I, Term-II

Course Code	Course title	Credit Point
ESDM 1201	Introduction to Hazards and Disasters	3
ESDM 1203	Environmental Physics	2
ESDM 1202	Environmental Physics- Lab	1
ESDM 1205	Environmental Geography	3
ESDM 1207	Analytical Chemistry	2
ESDM 1204	Analytical Chemistry-Lab	1
ESDM 1209	Ecology	3
ESDM 1206	Ecology-Lab	1
ESDM 1211	Environmental Sociology	2
ESDM 1213	Basic Mathematics	2
ESDM 1208	Viva Voce	1

Total **21**

Year-II, Term-I

Course Code	Course title	Credit Point
ESDM 2101	Atmospheric Chemistry and Air pollution	3
ESDM 2103	Environmental Microbiology	3
ESDM 2102	Environmental Microbiology-Lab	1
ESDM 2105	Hydrology	3
ESDM 2104	Hydrology-Lab	1
ESDM 2107	Environmental Statistics	3
ESDM 2106	Environmental Statistics-Lab	1
ESDM 2109	Environmental Economics	3
ESDM 2111	ICT in Environmental Science	2
ESDM 2108	ICT in Environmental Science -Lab.	1
ESDM 2110	Field Work	1
Total		22

Year-II, Term-II

Course Code	Course title	Credit Point
ESDM 2201	Hydrochemistry and Water Pollution	3
ESDM 2202	Hydrochemistry and Water Pollution -Lab	1
ESDM 2203	Soil and Environment	3
ESDM 2204	Soil and Environment-Lab	1
ESDM 2205	Meteorology	3
ESDM 2206	Meteorology-Lab	1
ESDM 2207	Limnology and Oceanography	3
ESDM 2209	Forest Management	3
ESDM 2211	Human Dimensions of Environmental Management	2
ESDM 2208	Viva Voce	1
Total		21

Year-III, Term-I

Course Code	Course title	Credit Point
ESDM 3101	Environmental Engineering	3
ESDM 3102	Environmental Engineering – Lab	1
ESDM 3103	Environmental Biochemistry	2
ESDM 3105	Environmental Biotechnology	2
ESDM 3107	Agro-Production and Environment	3
ESDM 3109	Waste Management	3
ESDM 3111	Biodiversity conservation	3
ESDM 3113	Disaster Management	3
ESDM 3104	Field Work	1
Total		21

Year-III, Term-II

Course Code	Course title	Credit Point
ESDM 3201	Environmental Toxicology	2
ESDM 3202	Environmental Toxicology Lab	1
ESDM 3203	Integrated Water Resource Management	3
ESDM 3205	Climate Change	3
ESDM 3207	Environmental Impact Assessment	3
ESDM 3204	Environmental Impact Assessment-Lab	1
ESDM 3209	Remote Sensing	2
ESDM 3206	Remote Sensing Lab	1
ESDM 3211	Coastal Marine Resource Management	2
ESDM 3213	Environmental Health and Sanitation	2
ESDM 3208	Viva Voce	1
Total		21

Year-IV, Term-I

Course Code	Course title	Credit Point
ESDM 4101	Research Methodology and Project Management	3
ESDM 4102	Research Methodology and Project Management-Lab	1
ESDM 4103	Instrumental Methods for Environmental Analysis	3
ESDM 4105	Environmental communication and Journalism	2
ESDM 4107	Energy and Environment	2
ESDM 4109	Industrial Ecology	3
ESDM 4111	Geographic Information System (GIS)	2
ESDM 4104	Geographic Information System (GIS)- Lab	1
ESDM 4113	Ecotourism, Protected area and Wildlife Management	3
ESDM 4106	Industrial Tour	1
Total		21

Year-IV, Term-II

Course Code	Course title	Credit Point
ESDM 4201	Environmental Management	3
ESDM 4203	Environmental Policy, Law and Administration	3
ESDM 4205	Environmental Modeling	3
ESDM 4202	Environmental Modeling-Lab	1
ESDM 4207	Industrial Pollution and Mitigation	3
ESDM 4209	Sustainable Development	3
ESDM 4211	Project Work: Report Writing and Presentation	3
ESDM 4204	Viva Voce	1
Total		20