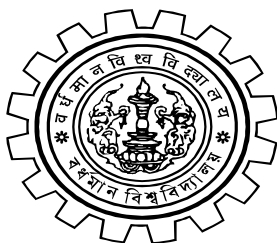


ENVIRONMENTAL SCIENCE
THE UNIVERSITY OF BURDWAN



M. Sc. SYLLABUS
[CHOICE BASED CREDIT SYSTEM]
[w. e. f. 2020- '21]

DEPARTMENT OF ENVIRONMENTAL SCIENCE
THE UNIVERSITY OF BURDWAN
BURDWAN-713104

COURSE STRUCTURE FOR M.Sc. IN ENVIRONMENTAL SCIENCE

SEMESTER- I (TOTAL MARKS: 300)

Course				Lect. h/week	Dur. of Exam (in h)	Marks			Credit
Course code	Type	T/P	Name			I.A.	E.T.	Total	
MSES101	Core	T	Basic Ideas on Environment	4	2	10	40	50	4
MSES102	Core	T	Physical Environment	4	2	10	40	50	4
MSES103	Core	T	Environmental Biology	4	2	10	40	50	4
MSES104	Core	T	Environmental Microbiology	4	2	10	40	50	4
MSES105	Core	P	Practical on Physical Environment	8	4	10	40	50	4
MSES106	Core	P	Practical on Environmental Biology	8	4	10	40	50	4
							Total Credit		24

Note: T- Theory; P- Practical; I.A.- Internal Assessment; E.T.- End Term

SEMESTER- II (TOTAL MARKS: 300)

Course				Lect. h/week	Dur. of Exam (in h)	Marks			Credit
Course code	Type	T/P	Name			I.A.	E.T.	Total	
MSES201	Core	T	Life Processes & Ecotoxicology	4	2	10	40	50	4
MSES202	Core	T	Environmental Geoscience	4	2	10	40	50	4
MSES203	Core	T	Energy Resource & Environmental Statistics	4	2	10	40	50	4
MSES204	Core	T	Environmental Pollution & Degradation	4	2	10	40	50	4
MSES205	Core	P	Practical on Environmental Problems	8	4	10	40	50	4
MSES206	Core	P	Practical on Ecotoxicological Measurements	8	4	10	40	50	4
							Total Credit		24

SEMESTER- III (TOTAL MARKS: 300)

Course				Lect. h/week	Dur. of Exam (in h)	Marks			Credit
Course code	Type	T/P	Name			I.A.	E.T.	Total	
MSES301	Core	T	Biodiversity Conservation & Sustainable Development	4	2	10	40	50	4
MSES302	Core	T	Emerging Environmental Problems, Health Hazards & Genetic Engineering	4	2	10	40	50	4
MSES303	Core	T	Remote Sensing & GIS	4	2	10	40	50	4
MSES304	GE	T	Environmental Perspectives	2	2	05	20	25	2
MSWM304			or To be opted from SWYAM	--	--	--	--	--	2
MSES305-1	DE	P	Practical on RS & GIS, EIA & Diseases	8	4	10	40	50	4
MSES305-2	DE	T	Ecological Modelling and GIS for Environmental Applications	4	2	10	40	50	4
MSES305-3	DE	T	Ecotoxicology & Industrial Microbiology	4	2	10	40	50	4
MSES306-1	DE	T	To be opted from SWYAM	--	--	--	--	--	4
MSES306-2	DE	T	Forest Ecology and Oceanography	4	2	10	40	50	4
MSES307	Core	P	Community Engagement Activities	4	2	05	20	25	2
Total Credit								24	

GE: Generic Elective; DE: Discipline-centric Elective

SEMESTER- IV (TOTAL MARKS: 300)

Course				Lect. h/week	Dur. of Exam (in h)	Marks			Credit
Course code	Type	T/P	Name			I.A.	E.T.	Total	
MSES401	Core	T	Environmental Impact Assessment & Environmental Laws	4	2	10	40	50	4
MSES402	Core	T	Environmental Toxicology & Hazardous Wastes	4	2	10	40	50	4
MSES403	Core	T	Environmental Biotechnology	4	2	10	40	50	4
MSES404-1	DE	T	Environmental Issues, Economics & Environmental Management	4	2	10	40	50	4
MSES404-2	DE	T	Environmental Engineering and Science	4	2	10	40	50	4
MSES405-1	DE	P	Practical of Toxicological Testing	8	4	10	40	50	4
MSES405-2	DE	P	Practical of Spatial Data Analysis and Ecological Modelling	8	4	10	40	50	4
MSES406	Core	P	Dissertation Work	4	4	10	40	50	4
							Total Credit		24