



Centre for Distance and Online Education, Rabindra Bharati University

*Syllabus for MA in Environmental Studies
Session 2020-21 onwards*

The salient features of the proposed changes are as follows:

- ✓ Incorporation of Semester system of Studies
- ✓ There shall be four semesters of 16 credits each, totaling to 64 credits
- ✓ In all there shall be 16 core courses including one special course of dissertation work and one practical course, 4 compulsory elective course and two open elective courses

The structure of the course will be as follows:

First Semester: 5 Core Units of total 16 credits.

Second Semester: 5 Core Units of total 16 credits.

Third Semester: 3 Core Units and 2 compulsory electives of total 16 credits.

Fourth Semester: 1 Core Unit, 2 compulsory electives and 2 open electives of total 16 credits

For each unit in each semester, 40 marks are for examinations and 10 marks are for internal assessment.

The syllabus of the core papers, compulsory elective papers and open elective papers are in lines with the UGC model curriculum with minor changes to suit present circumstances and keeping in mind that Environmental Studies is a multidisciplinary subject and students join in this course from different undergraduate courses.

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Semester	Course Code	Course name	Credits	Marks
I	CC 1.1	Society, Development and Ecology I	3	50
	CC 1.2	Environmental Pollutions I	3	50
	CC 1.3	Natural Resources and Environment	3	50
	CC 1.4	Environmental Politics	3	50
	CC 1.5	Environmental Policies, Laws and Regulations	3	50
II	CC 2.1	Society, Development and Ecology II	3	50
	CC 2.2	Environmental Pollutions II	3	50
	CC 2.3	Environmental Geology and Remote Sensing	3	50
	CC 2.4	Practical in Environmental Studies	3	50
	CC 2.5	Environmental Economics and Statistics	3	50
III	CC 3.1	Sustainable Development I	3	50
	CC 3.2	Sustainable Development II	3	50
	CC 3.3	Atmosphere and Global Climate Scenario	3	50
	CEC 3.1/ 3.1A	Environmental Management I/Man and Environment I	4	50
	CEC 3.2/ 3.2A	Environmental Management II/Man and Environment II	4	50
IV	CC 4.1	Dissertation	3	50
	CEC 4.1/ 4.1A	Environmental Management III/Man and Environment III	4	50
	CEC 4.2/ 4.2A	Environmental Management IV/Man and Environment IV	4	50
	OEC 4.1/ 4.1A	Disaster Management I/Museum and Environment I	3	50
	OEC 4.2/ 4.2A	Disaster Management II/Museum and Environment II	3	50
Total			64	1000

Semester I

Course code	Unit	Syllabus for semesterized course curriculum	Marks
CC 1.1	Society, Development and Ecology I		50 [40 (exam)+ 10 (internal assessment)]
	U1	Human beings, society and development	
	U2	Development and displacement	
	U3	Concept of ecology and ecosystem	
	U4	Concept of population and community ecology	
	U5	Environmental communication	
CC 1.2	Environmental Pollutions I		50 [40 (exam)+ 10 (internal assessment)]
	U1	Air pollution	
	U2	Hydrology	
	U3	Water pollution	
	U4	Chemistry of water	
	U5	Sewage and waste water treatment	
CC 1.3	Natural Resources and Environment		50 [40 (exam)+ 10 (internal assessment)]
	U1	Natural resources and associated problems	
	U2	Water resources and national status	
	U3	Mineral and land resources: National status, land use planning	
	U4	Food resources and national status	
	U5	Energy resources and national status	
CC 1.4	Environmental Politics		50 [40 (exam)+ 10 (internal assessment)]
	U1	Environment, culture and politics	
	U2	North vs South – international co-operation and conflict	
	U3	Biosphere Conferences	
	U4	Civil society and marginal voices	
	U5	Environmental politics in India	
CC 1.5	Environmental Policies, Laws and Regulations		50 [40 (exam)+ 10 (internal assessment)]
	U1	Environmental ethics and major environmental laws	
	U2	Environmental Treaties, Laws and Policies	
	U3	Environmental Protection Act	
	U4	Environmental monitoring and role of West Bengal Pollution Control Board	
	U5	Human rights and environment	

Semester II

Course code	Unit	Syllabus for semesterized course curriculum	Marks
CC 2.1	Society, Development and Ecology II		50 [40 (exam)+ 10 (internal assessment)]
	U1	Urbanization and urban environment in India	
	U2	Wetland and Coral Reef ecology	
	U3	Marine ecology	
	U4	Forest ecology	
	U5	Social forestry	
CC 2.2	Environmental Pollutions II		50 [40 (exam)+ 10 (internal assessment)]
	U1	Marine and river pollution	
	U2	Radioactive pollution, thermal pollution, odor and vision pollution and e-waste	
	U3	Noise pollution and measurement technique	
	U4	Pollution due to population explosion and habitat degradation	
	U5	Soil pollution	
CC 2.3	Environmental Geology and Remote Sensing		50 [40 (exam)+ 10 (internal assessment)]
	U1	History of the Earth	
	U2	Glaciers	
	U3	Petrology and Pedology	
	U4	Climatology	
	U5	Remote sensing and GIS	
CC 2.4	Practical in Environmental Studies		50 [40 (exam)+ 10 (internal assessment)]
	U1	Analytical methods in Environmental Quality Assessment	
	U2	Microbiological analysis	
	U3	Analysis of soil quality	
	U4	Analysis of water quality	
	U5	Analysis of air quality	
CC 2.5	Environmental Economics and Statistics		50 [40 (exam)+ 10 (internal assessment)]
	U1	Relationship between environment and economy	
	U2	Environmental economics	
	U3	Basic issues of environmental valuation	
	U4	Impact of economic policies on environment	
	U5	Descriptive statistics	

Semester III

Course code	Unit	Syllabus for semesterized course curriculum	Marks
CC 3.1	Sustainable Development I		50 [40 (exam)+ 10 (internal assessment)]
	U1	Theories and concept of sustainable development	
	U2	Models of sustainable development	
	U3	Agenda 21: Reference guide for sustainable development	
	U4	Sustainable land management and wasteland reclamation	
CC 3.2	Sustainable Development II		50 [40 (exam)+ 10 (internal assessment)]
	U1	Sustainable water management and conservation	
	U2	Sustainable agriculture – food security	
	U3	Sustainable forest policies and conservation	
	U4	Sustainable tourism development	
CC 3.3	Atmosphere and Global Climate Scenario		50 [40 (exam)+ 10 (internal assessment)]
	U1	Earth systems	
	U2	Earth's atmosphere	
	U3	Oceans	
	U4	Human impacts on climate	
CEC 3.1	Environmental Management I		50 [40 (exam)+ 10 (internal assessment)]
	U1	Environment, ecology and management, positive and negative effects	
	U2	Human impact on natural environment	
	U3	Population and ecological crisis	
	U4	Management of forest resource	
CEC 3.2	Environmental Management II		50 [40 (exam)+ 10 (internal assessment)]
	U1	Environmental impact assessment	
	U2	Basic steps of overall appraisal of development projects	
	U3	Cost benefit analysis	
	U4	Evaluation of environmental impact	
CEC 3.1A	Man and Environment I		50 [40 (exam)+ 10 (internal assessment)]
	U1	Environmental education and environmental literacy	
	U2	Fundamentals of mass communication	
	U3	Basics of science & technology (S&T) communication	
	U4	Environmental communication	
CEC 3.2A	Man and Environment II		50 [40 (exam)+ 10 (internal assessment)]
	U1	Environmental and resource economics	
	U2	Cost-Benefit Analysis and valuation	
	U3	Non-renewable resources	
	U4	Waste management & renewable resources	
	U5	Pollution control, growth, resources and the environment	

Semester IV

Course code	Unit	Syllabus for semesterized course curriculum	Marks
CC 4.1	Dissertation (Report + Viva)		50 [40 (exam)+ 10 (internal assessment)]
CEC 4.1	Environmental Management III		50 [40 (exam)+ 10 (internal assessment)]
	U1	Pollution and global environmental issues	
	U2	Management of environment I	
	U3	Management of environment II	
	U4	Environmental audit	
	U5	Environmental problems, planning and management in India	
CEC 4.2	Environmental Management IV		50 [40 (exam)+ 10 (internal assessment)]
	U1	Toxicology	
	U2	Environmental biotechnology	
	U3	Bioremediation	
	U4	Alternate fuels	
	U5	Integrated pest management	
CEC 4.1A	Man and Environment III		50 [40 (exam)+ 10 (internal assessment)]
	U1	The relationship between 'development', 'progress', science, capitalism and industrialism	
	U2	Green critiques of industrialism	
	U3	Post-colonial and post-structuralist critiques of development and the discourse of participation	
	U4	The impact of development on marginal peoples	
	U5	Re-evaluation of development in light of sustainability and social equity; contemporary critiques and models	
CEC 4.2A	Man and Environment IV		50 [40 (exam)+ 10 (internal assessment)]
	U1	Environmental philosophy	
	U2	Theories of environmental ethics and philosophy	
	U3	Eco centric theories of nature	
	U4	Environmental ethics and issues of national and international governance	
	U5	Equitable utilization of resources	
OEC 4.1	Disaster Management I		50 [40 (exam)+ 10 (internal assessment)]
	U1	Disaster: definition, classification and threat	
	U2	Response to disaster impact	
	U3	Disaster prevention and mitigation	
	U4	Management of disasters	
	U5	Cyclones and fire-mediated disaster management	
OEC 4.2	Disaster Management II		50 [40 (exam)+ 10 (internal assessment)]
	U1	Flood and land slide management	
	U2	Earthquake and tsunami management	
	U3	Anthropogenic disaster management	
	U4	Disaster due to volcano, avalanche, drought and global warming	
	U5	Radioactive and nuclear disaster management	

OEC 4.1A	Museum and Environment I		50 [40 (exam)+ 10 (internal assessment)]
	U1	Humidity and temperature measurement and control	
	U2	Light intensity measurement and control	
	U3	Pesticide fumigation	
	U4	Air pollution monitoring	
	U5	Moisture control and monitoring	
OEC 4.2A	Museum and Environment II		50 [40 (exam)+ 10 (internal assessment)]
	U1	Different forms of environmental degradation	
	U2	Corrosion , its effects and remedial action	
	U3	Salt action and moisture attack and remedial action	
	U4	Termite attack and remedies	
	U5	Effect of gaseous pollutants and remedies	