

**ECOLOGICAL UNIVERSITY OF BUCHAREST**  
**FACULTY OF ECOLOGY AND ENVIRONMENT PROTECTION**

Fundamental domain: Environmental Sciences  
 Field of study: Ecology and Environment Protection  
 Program of study: Managing the Effects of Climate Change

**COURSE CATALOGUE**

1 <sup>st</sup> semester		
Course Code	Mandatory courses	ECTS
<b>DS0101</b>	<i>The Dynamics of Climate Change</i>	6
<b>DS0102</b>	<i>Scenarios on the Effects of Climate Change</i>	6
<b>DA0103</b>	<i>General Concepts of Forestry</i>	5
<b>DS0104</b>	<i>Meteorology and Climatology</i>	6
<b>DS0105</b>	<i>Ethics and Academic Integrity</i>	4
<b>Optional Courses</b>		
<b>DA0106</b>	<i>Biodiversity in Relation with Present Climatic Dynamics</i>	3
<b>DS0107</b>	<i>Environmental Monitoring Systems</i>	3
<i>One course will be chosen</i>		
<b>Optional Courses</b>		
<b>DA0108</b>	<i>Foreign Language - English</i>	3

2 <sup>nd</sup> semester		
Course Code	Mandatory courses	ECTS
<b>DS0209</b>	<i>Policies on Climate Change</i>	6
<b>DS0210</b>	<i>Hazardous Meteorological Phenomena</i>	6
<b>DS0211</b>	<i>Infrastructure and Urban Climate</i>	6
<b>DA0212</b>	<i>Energy - Resources and Alternatives</i>	6
<b>DA0213</b>	<i>Speciality Practice</i>	3
<b>Optional Courses</b>		
<b>DA0214</b>	<i>The Forest – Present and Future; Projects in Romania</i>	3
<b>DA0215</b>	<i>Environmental Risks Induced by Climate Change</i>	3
<i>One course will be chosen</i>		
<b>Optional Courses</b>		
<b>DA0216</b>	<i>Hazard and Risk in Resource Management</i>	3

<b>3rd semester</b>		
<b>Course Code</b>	<b>Mandatory courses</b>	<b>ECTS</b>
<b>DA0317</b>	<i>United Nations Framework Convention on Global Climate Change</i>	6
<b>DS0318</b>	<i>Climate Changes and Agriculture</i>	6
<b>DS0319</b>	<i>Impact of Climate on Surface and Ground Water Regime</i>	6
<b>DA0320</b>	<i>Environmental Hygiene in the Conditions of Global Warming</i>	6
	<b>Optional Courses</b>	
<b>DA0321</b>	<i>Economical Aspects on Climate Changes</i>	6
<b>DS0322</b>	<i>Waste Management</i>	6
	<i>One course will be chosen</i>	
	<b>Optional Courses</b>	
<b>DS0323</b>	<i>Using GIS for Water Resource Management</i>	6

<b>4rd Semester</b>		
<b>Course Code</b>	<b>Mandatory courses</b>	<b>ECTS</b>
<b>DS0424</b>	<i>National and International Legislative Framework Concerning Climate Change</i>	6
<b>DA0425</b>	<i>Environmental Projects in Sustainable Development Conditions</i>	6
<b>DA0426</b>	<i>The Management of Prevention, Intervention and Remediation of the Effects of Natural and Man-Made Hazard</i>	6
<b>DS0427</b>	<i>Specific Practical Activities for Dissertation Thesis Elaboration</i>	6
<b>DS0428</b>	<i>Development Dissertation Thesis</i>	6

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**COURSE CATALOGUE**

<b>1<sup>st</sup> semester</b>		
<b>Course Code</b>	<b>Mandatory courses</b>	<b>ECTS</b>
<b>FEPM-DF0101</b>	<i>Vegetal Biology</i>	5
<b>FEPM-DF0102</b>	<i>Animal Biology</i>	5
<b>FEPM-DF0103</b>	<i>Environmental Physics</i>	5
<b>FEPM-DF0104</b>	<i>Environmental Chemistry</i>	5
<b>FEPM-DF0105</b>	<i>Physical Geography</i>	5
<b>FEPM-DF0106</b>	<i>Environmental Economics</i>	5
<b>Optional Courses</b>		
<b>FEPM-DF0107</b>	<i>Basics of Environmental Science</i>	5

<b>2<sup>nd</sup> semester</b>		
<b>Course Code</b>	<b>Mandatory courses</b>	<b>ECTS</b>
<b>FEPM-DC0208</b>	<i>General Geology</i>	4
<b>FEPM-DF0209</b>	<i>The Atmosphere and the Air Quality</i>	5
<b>FEPM-DS0210</b>	<i>Biogeochemical Cycles</i>	5
<b>FEPM-DF0211</b>	<i>Hydrology and Oceanography</i>	5
<b>FEPM-DF0212</b>	<i>General Ecology</i>	5
<b>FEPM-DC0213</b>	<i>Foreign Language</i>	3
<b>Optional Courses</b>		
<b>FEPM-DC0214</b>	<i>Ethics and Academic Integrity</i>	3
<b>FEPM-DC0215</b>	<i>Professional Ethics and Intellectual Property</i>	3
<b>One course will be chosen</b>		

<b>3<sup>rd</sup> semester</b>		
<b>Course Code</b>	<b>Mandatory courses</b>	<b>ECTS</b>
<b>FEPM-DF0301</b>	<i>Geomorphology and Quaternary</i>	6
<b>FEPM-DS0302</b>	<i>Ecological Statistics</i>	7
<b>FEPM-DS0303</b>	<i>Ecosystems</i>	7
<b>FEPM-DC0304</b>	<i>Physical Training</i>	3
<b>Optional Courses</b>		
<b>FEPM-DS0305</b>	<i>Plant Taxonomy</i>	5
<b>FEPM-DS0306</b>	<i>Animal Taxonomy</i>	5
<b>FEPM-DC0307</b>	<i>Environmental Geology</i>	5
<b>FEPM-DC0308</b>	<i>Waste Management</i>	5
<b>2 optional courses will be chosen</b>		

4 <sup>th</sup> semester		
Course Code	Mandatory courses	ECTS
FEPM-DF0409	<i>Soil Science</i>	4
FEPM-DC0410	<i>Structural Geology</i>	3
FEPM-DS0411	<i>Phytosociology and Romanian Vegetation</i>	4
FEPM-DS0412	<i>GIS</i>	4
FEPM-DS0413	<i>Speciality Practice</i>	5
	<b>Optional Courses</b>	
FEPM-DS0414	<i>Ecotoxicology</i>	5
FEPM-DS0415	<i>Hydrobiology</i>	5
FEPM-DS0416	<i>Human Ecology</i>	5
FEPM-DS0417	<i>Management of biodiversity</i>	5
	<b>2 optional courses will be chosen</b>	
	<b>Optional Courses</b>	
FEPM-DS0419	<i>Pollution Prevention Techniques</i>	5

5 <sup>th</sup> semester		
Course Code	Mandatory courses	ECTS
FEPM-DS0501	<i>Entomology and Integrated Control</i>	5
FEPM-DS0502	<i>Ecological Monitoring</i>	5
FEPM-DS0503	<i>Ecology of Populations</i>	5
FEPM-DC0504	<i>Nature Conservation</i>	5
	<b>Optional Courses</b>	
FEPM-DC0505	<i>Ecological Agriculture</i>	5
FEPM-DC0506	<i>Modeling Groundwater Flow and Pollutant Transportation</i>	5
FEPM-DS0507	<i>Modelling of Ecological Processes</i>	5
FEPM-DS0508	<i>Landscape Ecology</i>	5
	<b>2 optional courses will be chosen</b>	
	<b>Optional Courses</b>	
FEPM-DS0509	<i>Environmental Management</i>	5

6 <sup>th</sup> semester		
Course Code	Mandatory courses	ECTS
FEPM-DF0610	<i>Pollution and Environmental Protection</i>	5
FEPM-DF0611	<i>Environmental Law, Legislation, Policies and Strategies</i>	4
FEPM-DS0612	<i>Methodology of Environmental Impact Assessment</i>	5
FEPM-DF0613	<i>Management of Water Resources</i>	5
FEPM-DC0614	<i>Elements of Land and Urban Planning</i>	5
FEPM-DS0615	<i>Preparation Elaboration of Graduation Thesis</i>	6



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**COURSE CATALOGUE**

1 <sup>st</sup> semester		
Course Code	Mandatory courses	ECTS
<b>DS0101</b>	<i>Environmental Impact Assessment Methodology</i>	6
<b>DA0102</b>	<i>Impact Assessment on Biodiversity</i>	6
<b>DA0103</b>	<i>Impact Assessment on Groundwater</i>	6
<b>DA0104</b>	<i>The Impact of Electromagnetic Radiation on the Environment</i>	5
<b>DS0105</b>	<i>Ethics and academic integrity</i>	4
<b>Optional Courses</b>		
<b>DS0106</b>	<i>Impact of Agricultural Policies on Environmental Quality</i>	3
<b>DS0107</b>	<i>Hazard and Risk in Assessing</i>	3
<i>One course will be chosen</i>		
<b>Optional Courses</b>		
<b>DA0108</b>	<i>English language</i>	3

2 <sup>nd</sup> semester		
Course Code	Mandatory courses	ECTS
<b>DS0209</b>	<i>Energy and Environment</i>	5
<b>DA0210</b>	<i>Impact Assessment on Fresh Waters</i>	6
<b>DA0211</b>	<i>Assessment of the Impact on the Soil</i>	5
<b>DA0212</b>	<i>Systems for Measuring and Monitoring Environmental Quality Parameters</i>	6
<b>DA0213</b>	<i>Practice</i>	3
<b>Optional Courses</b>		
<b>DS0214</b>	<i>National Strategies in the Field of Environmental Protection</i>	5
<b>DA0215</b>	<i>Forestry Regulations</i>	5
<i>One course will be chosen</i>		
<b>Optional Courses</b>		
<b>DA0216</b>	<i>Physical Education</i>	3

<b>3rd semester</b>		
<b>Course Code</b>	<b>Mandatory courses</b>	<b>ECTS</b>
<b>DA0317</b>	<i>Assessment of Impacts on Habitats and Populations</i>	6
<b>DS0318</b>	<i>Control of Sustainable Forest Management</i>	6
<b>DS0319</b>	<i>Communication and Information Techniques for the Public, in the Context of the EIA</i>	6
<b>DA0320</b>	<i>Methods for Assessing the Impact on Human Health</i>	6
	<b>Optional Courses</b>	
<b>DS0321</b>	<i>Waste Management</i>	6
<b>DS0322</b>	<i>Biodiversity Management</i>	6
	<b>One course will be chosen</b>	
	<b>Optional Courses</b>	
<b>DA0323</b>	<i>Environmental Management</i>	3

<b>4rd Semester</b>		
<b>Course Code</b>	<b>Mandatory courses</b>	<b>ECTS</b>
<b>DS0424</b>	<i>Territory Planning and Aesthetic Impact</i>	5
<b>DA0425</b>	<i>Air Impact Assessment</i>	5
<b>DS0426</b>	<i>Exploitation of Zootechnical Resources in Order to Reduce the Impact on the Environment</i>	5
<b>DS0427</b>	<i>Use of GIS for Environmental Impact Assessment</i>	5
<b>DS0428</b>	<i>Audit and Environmental Assessment of Organizations</i>	5
<b>DS0429</b>	<i>Development Work Dissertation</i>	5

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**COURSE CATALOGUE**

<b>1<sup>st</sup> semester</b>		
<b>Course Code</b>	<b>Mandatory courses</b>	<b>ECTS</b>
<b>DS0101</b>	<i>European Policies in the Field of Natural Resources Management</i>	6
<b>DA0102</b>	<i>Management of Fresh Water Resources (1)</i>	7
<b>DA0103</b>	<i>Management of Non Renewable Resources(1)</i>	6
<b>DS0104</b>	<i>Ethics and Academic Integrity</i>	4
<b>Optional Courses</b>		
<b>DS0105</b>	<i>Management of Biodiversity</i>	7
<b>DA0106</b>	<i>Environmental Management</i>	7
<i>One course will be chosen</i>		
<b>Optional Courses</b>		
<b>DA0107</b>	<i>English Language</i>	3

<b>2<sup>nd</sup> semester</b>		
<b>Course Code</b>	<b>Mandatory courses</b>	<b>ECTS</b>
<b>DA0208</b>	<i>Forestry Regulations</i>	6
<b>DA0209</b>	<i>Landscape Resources used in Complex Land Planning(1)</i>	6
<b>DA0210</b>	<i>Management of Non Renewable Resources(2)</i>	6
<b>DA0211</b>	<i>Management of Fresh Water Resources (2)</i>	6
<b>DA0212</b>	<i>Speciality Practice</i>	3
<b>Optional Courses</b>		
<b>DA0213</b>	<i>Management of Air Quality</i>	3
<b>DA0214</b>	<i>Environmental Economics</i>	3
<i>One course will be chosen</i>		
<b>Optional Courses</b>		
<b>DA0215</b>	<i>Environmental Audit</i>	3

<b>3rd semester</b>		
<b>Course Code</b>	<b>Mandatory courses</b>	<b>ECTS</b>
<b>DA0316</b>	<i>Landscape Resources used in Complex Land Planning (2)</i>	6
<b>DS0317</b>	<i>Environmental Monitoring Systems</i>	6
<b>DS0318</b>	<i>Policy and Strategies of Preserving Biodiversity</i>	6
<b>DA0319</b>	<i>Romanian Groundwater Resources</i>	6
	<b>Optional Courses</b>	
<b>DA0320</b>	<i>Waste Management</i>	6
<b>DS0321</b>	<i>Environmental Impact Assessment</i>	6
	<i>One course will be chosen</i>	
	<b>Optional Courses</b>	
<b>DS0322</b>	<i>Projects Management</i>	6

<b>4rd Semester</b>		
<b>Course Code</b>	<b>Mandatory courses</b>	<b>ECTS</b>
<b>DS0423</b>	<i>Recovery of Romanian Mineral Resources in the context of Sustainable Development</i>	6
<b>DA0424</b>	<i>Rehabilitation of Natural Areas Damaged by Mineral Natural Resources Exploitation</i>	6
<b>DA0425</b>	<i>Challenges of Groundwater Resource Management</i>	6
<b>DS0426</b>	<i>Hazard and Risk in Natural Resources Evaluation and Management</i>	6
<b>DS0427</b>	<i>Development Dissertation Paper</i>	6