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Knowledge **FOR** Resilient so**Ci**Ety

Tirana Meeting

POST-GRADUATE PROGRAMS IN THE FIELD OF DRM&FSE IN GREECE, FYROM AND ALBANIA

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Outline of presentation:

-  *Preliminary Findings*
-  *Master and post-graduate programs in Greece -*
-  *Master and post-graduate programs in FYROM*
-  *Master and post-graduate programs in Albania*



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Steps of research

- Research on study programs in Albania and FYROM – EPOKA Team
- Research on study programs in Greece – UT Team
- **Starting point** - the full list of accredited public/ private Higher education Institutions in Albania, FRYOM and Greece
- **Selection** - Scan the information on the official websites and shortlisting the relevant academic units [faculty/departments/institutes]
- **Report** – Content of relevant study programs in the three countries



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Preliminary Findings - Greece

- There are some graduate programs covering the area of disaster risk management, but none in the field of fire safety engineering. Furthermore, some of the existing programs lack information on their detailed content or continuity of the study program
- There are several programs covering the area of Earthquake engineering or related fields. Within these programs, specific subject dealing with disaster risk management, are offered.
- There are several programs veering the areas of environment management, sustainable development and climate change adaptation, and related fields. These programs include subjects related to the area of DRM.



Preliminary Findings - FYROM

- There is no established master program fully focused on DRM&FSE in FRYOM
- There exists such an intent by the National Platform as specified in their reports in 2010.
- In 2010 the establishment of a master program with the contribution of Military Academy has been decided. It was planned to *interpolate crisis management modules in their existing curriculums*. **Furthermore, the Crisis Management Center and the State University of Ss. Cyril and Methodius agreed to establish post-graduate studies covering different risks and threats**. Finally, the establishing of special training for the CMC staff in different aspects of prevention and mitigation has been agreed to upon with the same University.
- There are some specific courses as part of curricula of second cycle programs in some universities that are relevant to the topic of DRM & FSE.



Preliminary Findings - Albania

- There is no established master program focused on DRM&FSE
- Programs related to the area of Environmental engineering and Earthquake engineering are selected to emphasize their content and their partial relation to the area of DRM



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GREECE

List of Universities and Higher Education Technical Schools in Greece:

Universities

1. Agricultura-I University of Athens
2. Aristotle University of Thessaloniki
3. Athens School of Fine Arts
4. Athens University of Economics and Business
5. Democritus University of Thrace
6. Harokopio University
7. Hellenic Open University
8. International Hellenic University
9. Ionian University
10. National and Kapodistrian University of Athens
11. National Technical University of Athens
12. Panteion University of Social and Political Sciences
13. Technical University of Crete
14. University of the Aegean
15. University of Crete
16. University of Ioannina
17. University of Macedonia
18. University of Patras
19. University of Peloponnese
20. University of Piraeus
21. University of Thessaly
22. University of Western Macedonia

Technological Educational Institutes

1. Advanced Technological Educational Institute of Athens
2. Alexander Technological Educational Institute of Thessaloniki
3. Higher School of Pedagogical and Technological Education
4. Technological Educational Institute of Chalkida
5. Technological Educational Institute of Crete
6. Technological Educational Institute of Epirus)
7. Technological Educational Institute of the Ionian Islands
8. Technological Educational Institute of Kavala
9. Technological Educational Institute of Lamia
10. Technological Educational Institute of Larissa
11. Technological Educational Institute of Western Greece
12. Technological Educational Institute of Piraeus
13. Technological Educational Institute of Serres
14. Technological Educational Institute of Western Macedonia

Master and post-graduate programs in Greece.

Title	Postgraduate Studies Programme (PSP) in the scientific field "Prevention and Management of Natural Disasters" (PDFK)
University/Department	The Department of Geology and Paleontology (former Geology)/ National and Kapodistrian University of Athens
Risk Area	Disaster Risk Management
Duration	2 Years
URL	http://metphyskat.geol.uoa.gr/titles.php
Since	2004-2005
Number of Students	No info
Admission	<p>Criteria for admission in the master program:</p> <p>(a) Students should be graduates of the Faculty of Sciences of the National University of Athens or other greek universities and Geomatics and Surveying Department of Technology educational Institute of Serres or other domestic technological education institutions with similar scope and graduates of recognized institutions abroad,</p> <p>(b) graduates of other departments AEI or TEI domestic or congener recognized institutions from relevant discipline abroad with technological directions and for whom the acquisition of the SFC or the ICJ does not imply the acquisition of the basic patent of University Departments participating in the program.</p>
Description	<p>Objects of the Postgraduate Program "Prevention and Natural Disaster" Management (MSc-PDFK) are:</p> <p>a) the study of natural catastrophic phenomena, including causes, their development, their impact, preventive and protective measures, and their management</p> <p>b) the detailed analysis of the problems that emerge from the event of natural and man-made disasters and harmonization of modern research and technological knowledge to implement effective measures to reduce the risk of natural disasters.</p> <p>Objectives of the Postgraduate Program "Prevention and Management of Natural Disasters" (PSP-PDFK) is the specialized high-level scientists and staff to meet the requirements listed above, both in private and public sectors in order to minimize the possible existing risk mainly from natural disasters. It is a common belief that knowledge, awareness and preparation of citizens and state machine to catastrophic events, is essential to reduce the consequences, if there is appropriate scientific staff specializing in the study of prevention and response to natural disasters.</p>
Content	<p><u>Special graduate courses</u></p> <ul style="list-style-type: none"> • 1. Geology information (o) • 2. Geodynamics of Greece (O) • 3. Geoinformatics and data analysis (o) <p>First half</p> <ul style="list-style-type: none"> • 1. Environment - natural and technological disasters (y) • 2. Extreme weather and floods (Y)

	<ul style="list-style-type: none"> • 3. Seismic risk and ifaisteiakos (y) • 4. Travel gravity - katolisthiseis (y) • 5. Application of gis in prevention - natural disaster management (y) <p>Second half</p> <ul style="list-style-type: none"> • 1. Long-term changes - erimopoiisis phenomena and changes in coastal areas (y) • 2. Fires (y) • 3. Research methods and monitoring environmental parameters - application space technology (y) • 4. Planning land use - natural disaster prevention (y) • 5. Management of natural disasters (y) <p>Third and Fourth Semester</p> <ul style="list-style-type: none"> • 1. Seminars (y) • 2. Thesis (y)
Personal Observation	<p>The program is directly related to the field. It is one of the few dealing exactly with the area in Greek Universities. However, it looks like the last year of the program is 2014, or at least there are no further announcements for the start of the program in the next years. The web page is in Greek, and therefore some aspects of the program are not very clear from web translation.</p>

Title	Master in "Environmental Engineering", specialisation Water Resources and Climate change
University/Department	Department of Environmental Engineering / Technical University of Crete
Risk Area	Climate change risk
Duration	2 years
URL	http://www.enveng.tuc.gr/index.php?option=com_content&view=article&id=219&Itemid=563&lang=en
Since	No info
Number of Students	30
Admission	<p>Candidates eligible for the PSP M.Sc. Degree are:</p> <ul style="list-style-type: none"> • Graduates of all Engineering Schools/Departments of Greek Universities or of equivalent accredited educational institutions abroad, • Graduates of Physics, Chemistry, Agriculture, Mathematics, Environmental Science, Informatics, Medical and Biology Departments of Greek Universities or of equivalent accredited educational institutions abroad, as well as • Graduates of Greek Technological Education Institutes.
Description	The ultimate goal of the Postgraduate Studies Program (PSP) is to develop cutting-edge technology and expertise in Environmental Engineering.
Content	<p>1st SEMESTER</p> <p>Required Courses</p> <p>Environmental Geochemistry Groundwater Flow and Optimization Research Lectures</p> <p>Elective Courses</p> <p>Advanced GIS applications in Environmental Engineering Environmental Impact Assessment</p> <p>2nd SEMESTER</p> <p>Required Courses</p> <p>Hydrometeorology and Climate change Fate and transport of contaminants in the subsurface Research Lectures</p> <p>Elective Courses</p> <p>Coastal Engineering and Climate change Environmental Law and Sustainable Development Stochastic behavior and Time Series analysis</p>
Personal Observation	Most of the subjects seem to be related indirectly to disaster risk management. Although the field of the master program isn't per se Disaster risk management, the issues covered are of great interest within our project field.

Title	Management of Hydrometeorological Hazards - Hydrohasards
University/Department	Department of Civil Engineering /University of Thessaly
Risk Area	
Duration	
URL	http://www.civ.uth.gr/en/postgraduate/post-courses
Since	
Number of Students	
Admission	
Description	
Content	
Personal Observation	It looks like this program is dealing directly with DRM but the web page could not be accessed to recover relevant information

Title	GeoEnvironmental Risks and Resources Masters of Science International Course
University/Department	Department of Natural Resources and Environment / <u>Technological Educational Institute of Crete /</u>
Risk Area	GeoEnvironmental Risks and natural disasters
Duration	The duration for the award of the M.Sc. degree is three semesters (full me), of which the third is for the preparaon of the thesis in collaboraon with National and European research laboratories.
URL	http://georr.chania.teicrete.gr/index.html
Since	No info
Number of Students	No info
Admission	A minimum requirement of a Bachelor's degree in a relevant discipline from a Greek University or Technological Educaonal Instute or an overseas qualificaon of an equivalent level. For non-European students, informaon on how to enroll is provided by Greek Embassy/Consulate in their Country. European students can apply for admission either directly at the Registrar's Office of the M.Sc. programme or through the internet.
Description	The purpose of the programme is the educaon and training of high level graduates in the field of geoenvironmental natural resources and natural disasters. Through the M.Sc. programme, students acquire modern interdisciplinary background and expere in Geoenvironmental Sciences, cung edge technology, powerful skills for sucessful academic and professional carrier, in todays compeve internaonal environment.
Content	<p>1st year</p> <p>1 st Semester</p> <ul style="list-style-type: none"> – Environmental chemistry & Contamination – Applied geology & Geoenergy Resources – GIS & Remote Sensing – Geophysical prospecting –Methods & Environmental applications <p>2 st Semester</p> <ul style="list-style-type: none"> – Water Resources & Hydrogeological hazards – Advanced Geophysics and Seismology – Advanced Geochemistry – Environmental Physics & Geomaterials – Numerical modeling of environmental problems and structures – Coastal systems – Remote Sensing in Georesources & Natural Hazardas – Advanced Topics in Georesources & Natural Hazardas <p>2nd year - 1 st Semester</p> <p>Thesis</p>
Personal Observation	Focused on DRM, with special topics covering different types of disasters.

Title	Post-graduate program In Antiseismic Design of Structures"
University/Department	Department of Civil Engineering / Aristotle University of Thessaloniki
Risk Area	Earthquake risk
Duration	1 year
URL	http://aste.civil.auth.gr/index.php?option=com_content&view=article&id=89&Itemid=81&lang=en
Since	1998-1999
Number of Students	20
Admission	According to Greek law, applications are accepted from all qualified holders of civil engineering degrees from Greek as well as foreign Universities. Also, applications are accepted from holders of engineering degrees in other, related fields.
Description	The academic program consists of two semesters (Fall and Spring) of study from September to May plus a masters-level dissertation that has to be completed during the summer term (June through August). The study program requires successful completion of the nine post-graduate level courses which are listed below. Specifically, these courses include lectures, laboratory exercises and computations, the completion of a small project, plus the usual end-of-term examinations.
Content	<ul style="list-style-type: none"> • 1. Engineering Seismology and Soil Dynamics • 2. Computational Mechanics for Earthquake-Resistant Structures • 3. Design, Modeling and Analysis of Earthquake-Resistant Buildings • 4. Earthquake-Resistant Design of R/C structures • 5. Earthquake-Resistant Design of Foundations, Retaining Walls and Earth Structures • 6. Seismic damage - Repairs - Strengthening - Seismic risk assessment • 7. Experimental Earthquake Engineering • 8. Earthquake-Resistant Design of Masonry Structures • 9. Earthquake-Resistant Design of R/C Bridges • 10. Earthquake-Resistant Design of Steel Structures
Personal Observation	Focus on earthquake risk and earthquake engineering. One subject dealing with risk assessment and evaluation of damage.

Title	Earthquake Engineering and Seismic Design of Structures
University/Department	School Of Science And Technology/ Hellenic Open University
Risk Area	Earthquake risk
Duration	2 years
URL	https://www.eap.gr/en/courses/128-earthquake-engineering-and-seismic-resistant-struct/1384-8f7f9c3dcbb543ac0a8ef1a66028bf68
Since	No info
Number of Students	No info
Admission	Applicants to the Earthquake Engineering and Seismic-Resistant Structures course must possess an undergraduate degree in a related field from a Greek Public University, a Technical Educational Institute or an equivalent degree.
Description	The scope of the programme is to provide specialized studies and knowledge to Civil Engineers in the area of Earthquake Engineering and Seismic-Resistant Structures, which will contribute to the elevation of the technical potential of the country educationally and professionally. The course provides the necessary theoretical background in seismology and soil and structural dynamics and emphasizes seismic design and repair and strengthening of building structures made of reinforced concrete, steel or other materials.
Content	<ul style="list-style-type: none"> • Dynamic Analysis of Structures • Technical Seismology and Soil Dynamics • Design of Seismic - Resistant Structures • Seismic Damages, Repairs and Reinforcements • DISSERTATION (40 ECTS)
Personal Observation	Focus on earthquake risk and earthquake engineering. One subject dealing with risk assessment and evaluation of damage.

Title	MSc in "Analysis and Design of Earthquake Resistant Structures"	
University/Department	The Department of Structural Engineering/ National Technical University of Athens	
Risk Area	Earthquake risk	
Duration	The course can be followed on a full time basis with three (3) semesters duration, or on a part time basis with two (2) year duration.	
URL	http://www.postgrad.structural.civil.ntua.gr/pclab_eng/Studies/studies_general.html	
Since	1998-1999	
Number of Students	No info	
Admission	Potential applicants must possess a degree in Civil Engineering and be graduates of a 4-year or a 5-year curriculum offered by an accredited Engineering School. Non-native speakers of the English language must provide a certified proficiency in the English Language.	
Description	The Programme offers courses and research opportunities in the areas of earthquake engineering such as: structural dynamics, structural analysis and design, computational mechanics, geomechanics, reliability and risk analysis. ADERS is designed, with its variety of topics in earthquake engineering to prepare students for carriers as consulting engineers, in private or government organizations, researchers, or members of the academic community. Students will have the opportunity to balance practical engineering concepts with advanced computational methods in order to meet the challenges of earthquake engineering.	
Content	WINTER SEMESTER Applied Structural Analysis of Framed and Shell Structures 3 Theory of Shells 3 Plastic Analysis of Framed Structures 3 Structural Dynamics 3 Recent Advances in RC Design Models 3 Geotechnical Engineering in the Design of Structures 3 Seismic Design of Surface and Underground Geotechnical Structures 3 SPRING SEMESTER Non Linear Finite Element Analysis of Structures 3 Boundary Elements 3 Experimental Earthquake Engineering 3 Stochastic Finite Elements 3 Advanced Mechanics of Masonry 3 Pathology and Design of Earthquake Resistant Structures 3 Optimum Structural Design 3 Aseismic Design and Analysis of Structures 3 Engineering Seismology 3 Load-carrying Behavior and Design of Structural Systems 3 Engineering Materials 3 Information Systems in Construction Management 3	
Personal Observation	The program is dealing with earthquake risk but its content is mostly composed of engineering subjects. No specific subject related to risk management or assessment.	

Title	MSc programmes on either Earthquake Engineering or Engineering Seismology
University/Department	The MEEES consortium comprises four academic institutions, namely (i) the Institute for Advanced Study of Pavia (IUSS), (ii) the University of Patras, (iii) the University of Grenoble 1 "Joseph Fourier" and (iv) the Middle East Technical University.
Risk Area	Earthquake engineering
Duration	18-month
URL	http://www.meees.org/site-pages/show/id/4
Since	Not specified ~2009
Number of Students	No info
Admission	The minimum requirement in order to apply for the MEEES programme is a University Degree, preferably in Civil Engineering, that will enable the applicant to be admitted to a PhD programme in the country where the degree was obtained. Past professional experience will be valued.
Description	The MEEES programme is an Erasmus Mundus Masters Course that aims to provide higher-level education in the field of Earthquake Engineering and Engineering Seismology. Graduate students involved in this Erasmus Mundus Masters course have the possibility of following an 18-month MSc programme on either Earthquake Engineering or Engineering Seismology. In addition, the EM Masters course envisages also the possibility of students following an 18-month study programme that leads to the attainment of a Masters degree on Earthquake Engineering and Engineering Seismology.
Content	<p>IUSS Pavia</p> <ul style="list-style-type: none"> ○ Active Tectonics ○ Geotechnical Earthquake Engineering ○ Seismic Hazard and Engineering Seismology ○ Structural Dynamics <p>University of Grenoble Alpes</p> <ul style="list-style-type: none"> ○ Basic Engineering Seismology ○ Basic Geomechanics ○ Durability and Vulnerability of Structures and Associated Risks ○ Engineering Seismology ○ Introduction to Signal Processing ○ Soil Dynamics and Nonlinear Site Response Analysis <p>Middle East Technical University</p> <ul style="list-style-type: none"> ○ Earthquake Disaster Policies ○ Engineering Seismology and the Earthquake Response of Structures ○ Geotechnical Earthquake Engineering ○ Introduction to Structural Earthquake Engineering ○ Seismic Hazard Assessment ○ Soil Dynamics <p>University of Patras</p> <ul style="list-style-type: none"> ○ Geotechnical Earthquake Engineering
Personal Observation	Most subjects related to earthquake engineering and some subjects dealing directly to earthquake resilience.

Title	Post graduate program in "Environment and Development"
University/Department	National Technical University of Athens/Interdisciplinary program
Risk Area	Environment and sustainable development
Duration	1-2 years
URL	http://environ.survey.ntua.gr/el/courses-1.html
Since	No info
Number of Students	40
Admission	The IPP "Environment and Development" will admit graduates from engineering university departments or other respective Departments / Higher Educational Institutions of the country and similar Institutes abroad. Also other graduates from Departments / Faculties of related subject from domestic or foreign institutions of technological directions, for which the acquisition of a Master's degree or Ph.D. does not mean the acquisition of the basic patent of NTUA, will be admitted
Description	Object of Interdisciplinary Postgraduate Programme (IPP) is to strengthen technological research and production of new interdisciplinary knowledge in the "Environment and Development" field.
Content	<p>Winter training period</p> <p>Required Courses</p> <ul style="list-style-type: none"> • Introduction to the Science Development and the Environment • Pollution and Environment Protection Systems • Geographic Information Systems and Environment <p>Optional course</p> <ul style="list-style-type: none"> • Methods and Techniques Observation and Monitoring of Environment • Solid Waste Management - Waste / Recycling • Modern Methods of Management and Protection of the Natural and Built Environment • Water Environment and Development • Residential Systems Design in Urban and Natural Environment <p>Spring training period</p> <p>Required Courses</p> <ul style="list-style-type: none"> • Spatial, Economic, Social and Environmental Dimensions of Development and Planning • Decision Making Systems • Economic Environment <p>Optional course</p> <ul style="list-style-type: none"> • Introduction to Environmental Protection Technologies • Methodology and Methods of Geographical Research • Water Resources Management • Renewable Energy Sources • Net Technologies • Advanced Methods of Digital Sensing • Lands Use and Land Policy • Applications Environmental Design in Built Area • Management and Environmental Monitoring • Methods of Foresight (Foresight) in Spatial Planning
Personal Observation	Some topics indirectly related to the area. The field of the study deals with issues related mostly to sustainable development.

Title	MSc. in Environmental Protection and Sustainable Management
University/Department	Department of Civil Engineering /Aristotle University of Thessaloniki
Risk Area	Environmental Risk
Duration	The program consists of two terms of course studies and a thesis.
URL	http://ppva.civil.auth.gr/content/en/program.html
Since	1998-1999
Number of Students	30.
Admission	Acceptance of applications for entry in the postgraduate programme of specialization “Environmental Protection and Sustainable Development” is subject to the greek national legislation. Priority is given to Civil Engineering graduates and next to graduates from other engineering, natural sciences and related-subject disciplines.
scription	The Postgraduate Programme “Environmental Protection and Sustainable Management ” consists of two terms of course studies and a thesis. The course studies concern the attendance of and the successful examination in postgraduate courses. Each individual course lasts a semester. Instruction in the courses includes lectures, laboratory work, elaboration and presentation of projects and seminars. The preparation of a thesis, which concerns a specialised study, takes place in the summer period, following the spring semester.
Content	<ul style="list-style-type: none"> • Environmental Assessment and Management • Natural Resource and Environmental Economics • Decision and Risk Analysis • Acquisition, Processing and Management of Environmental Data: Geographic Information Systems • Acquisition, Processing and Management of Environmental Data: Photogrametry, Remote Sensing and Geoinformation Methods and Systems • Acquisition, Processing and Management of Environmental Data: Statistical Methods and Techniques • Sustainable Management of Water Resources • Protection and Restoration of Groundwater • Systems and Technologies for Waste Management • Transportation - Transport Policy and the Environment • Introduction to Research Methodology • Environmental aspects of spatial planning • Integrated coastal zone management • Environmental impacts of coastal and marine works • Management of Natural Hazards • Environmental Geotechnology • Environmental and Energy Approach to Buildings
Personal Observation	One subject dedicated to Disaster Management. Manly concerned with environmental risk, and environmental management.

Title	Master in "Environmental Engineering", specialisation Environmental management, Sustainable Energy and Climate change
University/Department	Department of Environmental Engineering / Technical University of Crete
Risk Area	Sustainability and climate change
Duration	2 years
URL	http://www.enveng.tuc.gr/index.php?option=com_content&view=article&id=219&Itemid=563&lang=en
Since	No info
Number of Students	30
Admission	<p>Candidates eligible for the PSP M.Sc. Degree are:</p> <ul style="list-style-type: none"> • Graduates of all Engineering Schools/Departments of Greek Universities or of equivalent accredited educational institutions abroad, • Graduates of Physics, Chemistry, Agriculture, Mathematics, Environmental Science, Informatics, Medical and Biology Departments of Greek Universities or of equivalent accredited educational institutions abroad, as well as Graduates of Greek Technological Education Institutes.
Description	The ultimate goal of the Postgraduate Studies Program (PSP) is to develop cutting-edge technology and expertise in Environmental Engineering.
Content	<p>1st SEMESTER</p> <p>Required Courses</p> <p>Climate change and GHG Emissions</p> <p>Design of Sustainable Energy systems</p> <p>Research Lectures</p> <p>Elective Courses</p> <p>Special Topics of Catalytic surfaces and Catalytic Processes for Environmental Applications</p> <p>Environmental Impact Assessment</p> <p>2nd SEMESTER</p> <p>Required courses</p> <p>Advanced Catalytic and Electrocatalytic Energy processes</p> <p>Advanced studies on Energy Efficiency and Environmental quality in the Built Environment</p> <p>Research Lectures</p> <p>Elective Courses</p> <p>Environmental Economics and Policy</p> <p>Computational Dynamics with emphasis on seismic mechanics</p> <p>Environmental Law and Sustainable Development</p> <p>Stochastic behavior and Time Series analysis</p>
Personal Observation	The focus here is on energy systems and sustainability, however some subjects might indirectly address issues related to the area of disaster risk management.

Title	M.Sc. program in "Ecological Engineering & Climate Change"
University/Department	Department of Environment/University of the Aegean
Risk Area	
Duration	1 year
URL	http://www.env.aegean.gr/studies/masters-degrees/m-sc-in-ecological-engineering-climate-change/
Since	2003
Number of Students	No info
Admission	No info
Description	The M.Sc. program in "Ecological Engineering & Climate Change" covers 3 academic semesters and it aims to provide students with a sound knowledge of the environmental technologies' implementation in world rapidly changing under climate change. Conferment of the M.Sc. degree follows the successful completion of a number of taught courses over the first 2 academic semesters (totaling 60 ECTS units) and the submission of a research-oriented M.Sc. thesis (at the third academic semester).
Content	<ul style="list-style-type: none"> - Energy Policy & Management- Decision making; Educational Field Trip - Environmental Hydraulics; Educational Field Trip - Ecological Engineering - Design of Waste Treatment Systems; Solid Waste Management - Atmospheric Pollution & Climate Change II - Environmental Quality Assurance Methods - Environmental Chemistry & Toxicology - Applied Geoinformatics - Environmental Chemistry & Toxicology - M.Sc. thesis
Personal Observation	Environmental risk is the focus, and apparently no subjects are dealing directly with DRM.

Title	Applications Protection and Environmental Management"
University/Department	Department of Environmental Management and Natural Resources/ Polytechnic School of the University of Patras
Risk Area	Green technologies, ecosystems and environmental risks.
Duration	No info
URL	https://sites.google.com/site/metapytychiako/home
Since	No info
Number of Students	No info
Admission	The criteria for selection of candidates and the respective weights of these are: <ol style="list-style-type: none"> 1. Grade (40%) 2. knowledge base Relevance (15%) 3. Foreign languages (10%) 4. Letters of recommendation (10%) 5. Interview (25%)
Description	The objectives of the PSP are: <ul style="list-style-type: none"> • Deepening to multidisciplinary knowledge and practical applications of science, protection and Environmental Management. • The creation of specialized scientific staff in the disciplines of the PSP. • The promotion of scientific research on the subject of the PSP in accordance with international standards.
Content	MANDATORY <ol style="list-style-type: none"> 1. Analysis of Environmental Data and Process Simulation 2. Green Environmental Technologies 3. Ecosystems and Environmental Hazards ELECTIVE <ol style="list-style-type: none"> 1. Laboratory Technical Environment 2. Special Topics in Environmental Technologies (Advanced Environmental Technologies) 3. Management and communication of environmental projects 4. Technical Research Field_(Environmental Field Survey Techniques)
Personal Observation	Focus mainly on green technologies, however some topics might address issues on DRM.

Title	Water Resources and Environment Technology
University/Department	The Department of Civil Engineering / University of Patras
Risk Area	Water resources management
Duration	No info
URL	http://www.civil.upatras.gr/en/MetaptixiakheKpaideysh/Mathimata/YdatinoiPoroiKaiPerivallon/
Since	No info
Number of Students	No info
Admission	No info
Description	No info
Content	<ul style="list-style-type: none"> • Applied mathematics • Hydromechanic • Water Resources Management • Underground water • computational Fluid Mechanics • Analysis of Environmental Data • Disposal Wastewater • Laboratory Analysis and Design of Environmental Protection Works • Natural Wastewater Treatment Systems • Environmental Hydraulics • Hydrodynamics Marine Structures • Groundwater remediation Water Resources with hydraulic Methods • Stochastic Simulation Methods in Hydrology • Hydrodynamics of Bays and Reservoirs • Special Topics Geodesy - Natural Disaster Management • Simulation Processes Air Pollution • Design of Wastewater Treatment Plants • turbulent Flows • Special Topics in Hydraulic Engineering and Environmental Technology
Personal Observation	Content is in Greece therefore I could not extract the information for the other areas.

Title	Postgraduate Studies Programme (PSP) entitled "Water Resources Management in the Mediterranean"
University/Department	Forestry and Natural Environment Management TEI AMTH/ The TEI Eastern Macedonia and Thrace
Risk Area	Water resources management
Duration	No info
URL	http://www.teikav.edu.gr/portal/index.php/el/studies/masters/msc-in-management-of-water-resources-in-the-mediterranean
Since	2012
Number of Students	No info
Admission	No info
Description	This is an innovative postgraduate program focused in Water Resources Management especially dealing with drought conditions.
Content	
Personal Observation	No further content available in English

FYROM

List of Universities and Higher Education Schools in FYROM¹:

STATE HIGHER EDUCATION INSTITUTIONS		CITY
1.	The University "St.Cyril and Methody"	Skopje
2.	The University "St. Kliment Ohridski"	Bitola
3.	Tetovo State University	Tetovo
4.	The University "Goce Delcev"	Stip

PRIVATE HIGHER EDUCATION INSTITUTIONS		
1.	South Eastern European University,	Tetovo
2.	First Private European University "Republic of Macedonia",	Skopje
3.	First Private University - FON ,	Skopje
4.	New York University,	Skopje
5.	University "American College",	Skopje
6.	University for Audio Visual Arts – European Film Academy ECPA Paris	Skopje
	New York	Skopje
7.	Private Higher Education Institution: Faculty of Tourism	
8.	International Balkan University,	Skopje
9.	Private Higher Education Institution: Faculty of Business and Economics,	Skopje
10.	MIT	Skopje
11.	Euro College	Struga
12.	Private High Vocational School: Akademija Italiana	Skopje
13.	Higher Vocational School "Business Academy Smileski – "BAS"	Skopje
14.	Euro College	Kumanovo
15.	Higher School for Journalism and Public Relations	Skopje

¹ http://eacea.ec.europa.eu/extcoop/call/documents/former_yugoslav_republic_of_macedonia.pdf

Master and post-graduate programs in FYROM

Title	Professional master program in Hydrotechnics																																																																																																																																												
University/Department	Department of Civil Engineering /Ss. Cyril and Methodius University of Skopje																																																																																																																																												
Risk Area	Risk assessment																																																																																																																																												
Duration	2 academic years or 4 semesters																																																																																																																																												
URL	http://www.gf.ukim.edu.mk/file/Nastava/2%20ciklus%20na%20studii/English/Civil/Compulsory%20and%20optional%20subjects-Hydrotechnics.pdf																																																																																																																																												
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	8	Stochastic hydrology	3+2	6
	9	Physical-hydraulic models	3+2	6
	10	Eco-hydrology	3+2	6
	11	Embankment dams	3+2	6
	12	Concrete dams	3+2	6
	13	Optimization of hydro systems	3+2	6
	14	Economics of water resources	3+2	6
	15	Hydro system simulation	3+2	6
Personal Observation	Among course as listed under table 13.2, " <i>Erosion and Movement of Sediments</i> " can be related with the Disaster Risk Assessment			

Title	Professional master program in Roads and Railroads		
University/Department	Department of Civil Engineering /Ss. Cyril and Methodius University of Skopje		
Risk Area	Risk assessment		
Duration	2 academic years or 4 semesters		
URL	http://www.gf.ukim.edu.mk/file/Nastava/2%20ciklus%20na%20studii/English/Civil/Compulsory%20and%20optional%20subjects-Roads%20and%20railroads.pdf		
Since	-		
Number of Students	-		
Admission	-		
Description	The program consists of three semesters of studies and one final of thesis. The course studies concern the attendance of lectures and seminars and the successful examination in professional master courses. Each course lasts one semester. The third semester is structured upon elective courses to be selected according to the thesis theme of the study. The preparation of a thesis, which concerns a specialised study, takes place in the fourth semester together with Practical work. The program provides a wide range of elective courses.		
Content	No.	Subject	Classes/Weekly ECTScredits
	FIRST SEMESTER		
	1	Special track structures and undercarriage	3+2 6
	2	Road design II	3+2 6
	3	Assessment of risks in geotechnics	3+2 5
	4	Traffic economy	2+2 5
	5	Elective subject UKIM 1	2+0 2
	6	Elective subject – Roads and railroads 1	3+2 6
		Total	16+11 30
	SECOND SEMESTER		
	7	City streets	3+2 7
	8	Management and maintenance of roads	3+2 7
	9	Mathematics 2 (*)	3+3 6
	10	Assessment of projects for the transportation	3+3 8
	11	Elective subject UKIM 2	2+0 2
		Total	14+8 30
	THIRD SEMESTER		
	12	Chosen chapters for tunnels	3+2 6
	13	Elective subject – Roads and railroads 2	3+2 6
	14	Elective subject – Roads and railroads 3	3+2 6
	15	Elective subject – Roads and railroads 4	3+2 6
	16	Elective subject – Civil engineering (**)	3+2 6
		Total	15+10 30
	FOURTH SEMESTER		
	17	Practical work	0+5 5
	18	Master's thesis	0+25 25
		Total	0+30 30
Personal Observation	Among courses listed, Assessment of risks in Geotechnics can be related with the Disaster Risk Assessment		

ALBANIA

List of MPs in Albania

Title	Professional master program in Environmental Engineering
University/Department	Department of Civil Engineering / Polytechnic University of Tirana
Risk Area	Risk assessment
Duration	The program consists of two terms of course studies and a thesis.
URL	http://www.fin.edu.al/files/plane/Plane%20m%C3%ABsimore%20MP%20Viti%20%2014-15.pdf
Since	-
Number of Students	30
Admission	Acceptance of applications for entry in the profesional master programme of specialization “ Environmental Engineering ” is subject to the albanian national legislation. Priority is given to Environmental Engineering graduates and next to graduates from other engineering, and related-subject disciplines.
Description	The Postgraduate Programme “ Environmental Engineering ” consists of two terms of course studies and a thesis. The course studies concern the attendance of lectures and seminars and the successful examination in proffesional master courses. Each individual course lasts a semester. Instruction in the courses includes lectures, laboratory work, elaboration and presentation of projects and seminars. The preparation of a thesis, which concerns a specialised study, takes place in the spring semester.
Content	<p>First year- First semester</p> <ul style="list-style-type: none"> • Works of hydro energy extinction • Erosion • Water treatment technologies • G.I.S. (Environmental Map) • Renewable Energy <p>First Year- Second semester</p> <ul style="list-style-type: none"> • Waste treatment technologies • Pollution associated with energy • Rational use of energy • Water supply and sewerage • Risk assessment • Civil protection • Communication and expression techniques <p>Second Year- First semester</p> <ul style="list-style-type: none"> • Proffesional practice <p>Second Year- Second semester</p> <ul style="list-style-type: none"> • Diploma (master thesis)
Personal Observation	One subject dedicated to Disaster Management. Manly concerned with environmental risk, and environmental management.

Title	Master of science (MSc) in Agro-Environmental Engineering
University/Department	Department of Agro-Environment and Ecology /Agriculture University of Tirana
Risk Area	Food Safety & Public Health
Duration	The program consists of two terms of course studies and a thesis.
URL	http://ubt.edu.al/en/node/891
Since	-
Number of Students	10
Admission	Acceptance of applications for entry in the postgraduate programme of specialization “ Agro-Environmental Engineering ” is subject to the albanian national legislation. Priority is given to agro-environmental engineering graduates and next to graduates from other environmental engineering, and related-subject disciplines.
Description	<p>The Scientific master Programme “Agro-Environmental Engineering” consists of two terms of course studies and a thesis. The course studies concern the attendance of and the successful examination in master of science courses. Each individual course lasts a semester. Instruction in the courses includes lectures, seminar, workshops and projects. Participation of students during the lecture is obligatory 80%. Participation of students during the seminar is obligatory 80%. Workshops and exercises constitute a crucial element of learning. The preparation of a thesis, which concerns a specialised study, takes place in the summer period, following the spring semester.</p> <p>The Department of Agro-Environment and Ecology was established in 2001. Through teaching and scientific programs offered in this department, students are expected to gather the main concepts of ecology and their relationship with other disciplines, protection and sustainable management of land resources, water and natural resources, and different practices for sustainable environmental development in the country and the region.</p>
Content	<p>First year- First semester</p> <ul style="list-style-type: none"> • Environmental Modelling • Analytical chemistry • Agro-Ecology • Environmental chemistry • Physics of the land • Hydrobiology <p>First Year- Second semester</p> <ul style="list-style-type: none"> • Politics and environmental standards • Recycle technologies • Organic agriculture • Land Administration for Sustainable Development • Efficiency of nutrition and plant adaptation • Soil remediation technologies <p>Second Year- First semester</p> <ul style="list-style-type: none"> • Food Safety & Public Health • Bio energy

	<ul style="list-style-type: none"> • Biodiversity • Organic Pollutants & Ecotoxicology • Economics of Natural Resources & Environmental Legislation • Agricultural communication and consultation • GIS • Food Industry and the Environment <p>Second Year- Second semester</p> <ul style="list-style-type: none"> • Scientific master thesis
Personal Observation	One subject dedicated to food safety and public health in terms of disaster risk management. Management.

Title	Master of science (MSc) in Renewable Energies
University/Department	Department of Agro-Environment and Ecology /Agriculture University of Tirana
Risk Area	Environmental Impact and Climate Change
Duration	The program consists of two terms of course studies and a thesis.
URL	http://ubt.edu.al/en/node/891
Since	-
Number of Students	10
Admission	Acceptance of applications for entry in the postgraduate programme of specialization “ Renewable Energy ” is subject to the greek national legislation. Priority is given to agro-environmental engineering graduates and next to graduates from other environmental engineering, and related-subject disciplines.
Description	<p>The Scientific master Programme “ Renewable Energy ” consists of two terms of course studies and a thesis. The course studies concern the attendance of and the successful examination in master of science courses. Each individual course lasts a semester. Instruction in the courses includes lectures, seminar, workshops and projects. Participation of students during the lecture is obligatory 80%. Participation of students during the seminar is obligatory 80%. Workshops and exercises constitute a crucial element of learning. The preparation of a thesis, which concerns a specialised study, takes place in the summer period, following the spring semester.</p> <p>The Department of Agro-Environment and Ecology was established in 2001. Through teaching and scientific programs offered in this department, students are expected to gather the main concepts of ecology and their relationship with other disciplines, protection and sustainable management of land resources, water and natural resources, and different practices for sustainable environmental development in the country and the region.</p>
Content	<p>First year- First semester</p> <ul style="list-style-type: none"> • Renewable Energy Systems • Scientific Methods • Environmental Impact and Climate Change • Economy, trade and energy policy • Advanced energy technologies <p>First Year- Second semester</p> <ul style="list-style-type: none"> • Physical Cycle Assessment of bioenergy and industrial plants – LCA • Energy scenarios (<i>LEAP</i>) • Energy Waste Treatment • Elective course <p>Second Year- First semester</p> <ul style="list-style-type: none"> • Thermal and photovoltaic solar plants • Bio energy • Wind, Hydro and Geothermal • Elective course • Elective course <p>Second Year- Second semester</p> <ul style="list-style-type: none"> • Scientific master thesis
Personal Observation	One subject dedicated to Disaster Management. Manly concerned with environmental impact and climate change scenarios.