



**Postgraduate Course in  
Water Resources and Environmental Management**

<http://www.water-msc.org>

EDUCATE! - A Postgraduate Course in Water Resources and Environmental Management - Mozilla Firefox

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EDUCATE!  
www.water-msc.org

Postgraduate Course in  
Water Resources and Environmental Management

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Home

**Application**  
Online application for the Academic Period 2008-10 is now available.  
Application deadline is the **November 15, 2008**.

**Course flyer**  
Get the course flyer.

**Introductory week**  
See the agenda and the photo series from the introductory week in December 2007.

**The Educate! Project**  
Learn more about the Educate! Project

This course is supported by the INTERREG III B CADSES Neighbourhood Programme

Educate is an international postgraduate course in Water Resources and Environmental Management organised by four leading Universities in the South-Eastern European region. The Consortium includes the [National Technical University of Athens](#), the [University of Belgrade](#), the [Technical University of Civil Engineering of Bucharest](#) and the [University of Ljubljana](#). The pilot year of the course was funded by the [INTERREG III B CADSES](#) Programme and ended successfully on 24 August 2008.

The objective of this postgraduate programme is to assist the regional transnational cooperation on Water Resources and Environmental Management. This is achieved by shaping highly trained graduates into future policy makers who can rise to positions of leadership in their fields and perform their function professionally and with an understanding of the perspectives of the entire region.

The course directly contributes to the development of sustainable solutions for environmental management and pollution abatement, by advocating to students a strategy that considers spatial development and its individual components in the context of sustainability. In addition to their academic work, students will develop a variety of **learning skills and competencies**, such as research, communication, and other professional skills, learn to orient themselves in European networks of academic institutions and elaborate on relevant career objectives and strategies.

The postgraduate course is a flexible distance learning programme based on **e-learning**. All educational material, lectures and tutorials are developed in English. The Academic Programme is organised as a pedagogic continuum and includes four **Thematic Areas** and a **research thesis**.

The course is addressed to graduates in Engineering or natural and applied sciences mainly from the countries of SE Europe but can receive students from other countries as well. It is targeting recent university graduates and professionals from the public or private sector seeking specialisation in the field of Water Resources and Environmental Management. Successful candidates need to satisfy specific [Admission Requirements](#) set by the [Educate Academic Board](#) and follow the [Application Procedure](#).

Successful completion of 2 years of the course leads to the award of Certificate of Academic Specialization in the field of Civil Engineering study programme: *Water Resources and Environmental Management* from the Faculty of Civil Engineering, University of Belgrade.

A number of 3-5 day short courses on additional specialised topics will be available in each country to professionals from Government and Industry.

## Организатори курса :

- Грађевински факултет Универзитета у Београду
- Национални технички Универзитет у Атини
- Технички Универзитет у Букурешту
- Универзитет у Љубљани



# Организација курса - тематске области и модули

Тематске области:

- Тематска област 1: Научно окружење
- Тематска област 2: Управљање водама у урбаним срединама
- Тематска област 3: Управљање сливом
- Тематска област 4: Управљање животном средином
  
- Комплетна настава се обавља на енглеском језику
- На крају сваке тематске области се организују испити

## Организација курса – модули:

- Тематска област 1:
  - Хидраулика и хидрологија
  - Екологија, хемија и микробиологија
  - Обрада података: Вероватноћа, статистика, ГИС
  
- Тематска област 2: Управљање водама у урбаним срединама
  - Управљање системима за водоснабдевање
  - Сакупљање и третман отпадних вода
  - Управљање атмосферским водама
  
- Мини теза



## Организација курса – модули:

- Тематска област 3: Управљање сливом
  - Управљање поплавама
  - Подземне воде
  - Управљање водним ресурсима
  
- Тематска област 4: Управљање утицајима на животну средину
  - Прописи и законодавство
  - Процене утицаја на животну средину
  - Управљање обалном ерозијом
  
- Теза

# Радно окружење – платформа

The screenshot displays the DUCATE! e-learning platform interface. The top navigation bar includes the DUCATE! logo, the course title "Postgraduate Course in Water Resources and Environmental Management", and a user login status "You are logged in as Stojancic Nebojsa (Logout)". The main content area shows "Lesson 1: FLOODS AND INUNDATIONS" with a sub-section "1.1. Floods. Definitions. Flooding mechanisms." The text describes the hydrological regime of rivers and lists three perspectives on flooding: ecological, geomorphological, and human. A sidebar on the left lists lesson topics, and a bottom section titled "Overview of my courses" shows a list of assignments for "WREM101: Hydraulics and Hydrology" with their due dates and submission status.

**Lesson 1: FLOODS AND INUNDATIONS**

**1.1. Floods. Definitions. Flooding mechanisms.**

The hydrological regime of rivers during the year is characterized by a continuous variation of the discharges whose amplitude depends on the physico-geographical particularities and on the magnitude of the meteorological generating elements. During the spring seasons until the beginning of summer, the rains associated with the melting snow lead to the growth of discharge and, implicitly, of the rivers' level. The level at which a big water becomes a flood depends on the perspective one applies to this.

- From an ecologic point of view, floods are water flowing over a river's banks, supplying nutritional matter and humidity to the areas corresponding to the major riverbed.
- From a geomorphologic point of view, waters become floods when they carry large quantities of alluvia in suspension and dragged alluvia, substantially modifying the shape of the riverbed and even of the floodplain.
- From the point of view of the human perspective, big waters are floods when they cause material damages and losses of human lives or when they endanger society's means of existence and activity. In the definition given by the **United Nations Department of Humanitarian Affairs (UNDHA, 1992)** it is mentioned that: "a hazard due to a flood appears when great losses of materials, human lives and unfavourable conditions of environment occur, which surpass the affected society's capacity of facing all this by itself".

**Overview of my courses - WREM101: Hydraulics and Hydrology**

- Assignment - lesson 2  
Due date: Thursday, 24 January 2008, 09:40 AM  
Submitted, Graded
- Assignment - lesson 3  
Due date: Monday, 4 February 2008, 11:00 AM  
Submitted, Graded
- Assignment - lesson 4  
Due date: Thursday, 7 February 2008, 09:15 AM  
Submitted, Graded
- Assignment-lesson 5  
Due date: Saturday, 16 February 2008, 11:25 PM  
Submitted, Graded
- Assignment 5-task 2  
Due date: Wednesday, 27 February 2008, 09:40 AM  
Submitted, Graded
- Assignment5-task3  
Due date: Wednesday, 27 February 2008, 09:40 AM  
Submitted, Not graded yet
- Assignment on rainfall data processing using a GIS  
Due date: Monday, 21 April 2008, 11:55 PM  
Not submitted yet (230 days 22 hours late)

- Материјал за учење – на самом сајту и у pdf формату
- Задаци:
- - Квизови
- - Питања и одговори
- - Рачунски и софтверски задаци



# Радно окружење – примери задатака

## Квизови

## Питања и одговори

## Рачунски и софтверски задаци

IntFloodRiskMan: Simple questions - Mozilla Firefox

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http://www.water-msc.org/e-learning/mod/quiz/review.php?q=87&attempt=1637

### Simple questions

Review of attempt 1

Finish review

<b>Started on</b>	Sunday, 5 October 2008, 10:09 PM
<b>Completed on</b>	Sunday, 5 October 2008, 11:44 PM
<b>Time taken</b>	1 hour 35 mins
<b>Raw score</b>	0/120 (0%)
<b>Grade</b>	0 out of a maximum of 120

**1** Define a flood from different points of view.  
Marks: 10

Answer:

From an ecologic point of view, floods are water flowing over to the areas corresponding to the major riverbed.

From a geomorphologic point of view, waters become flood and dragged alluvia, substantially modifying the shape of the

From the point of view of the human perspective, big water of human lives or when they endanger society's means of

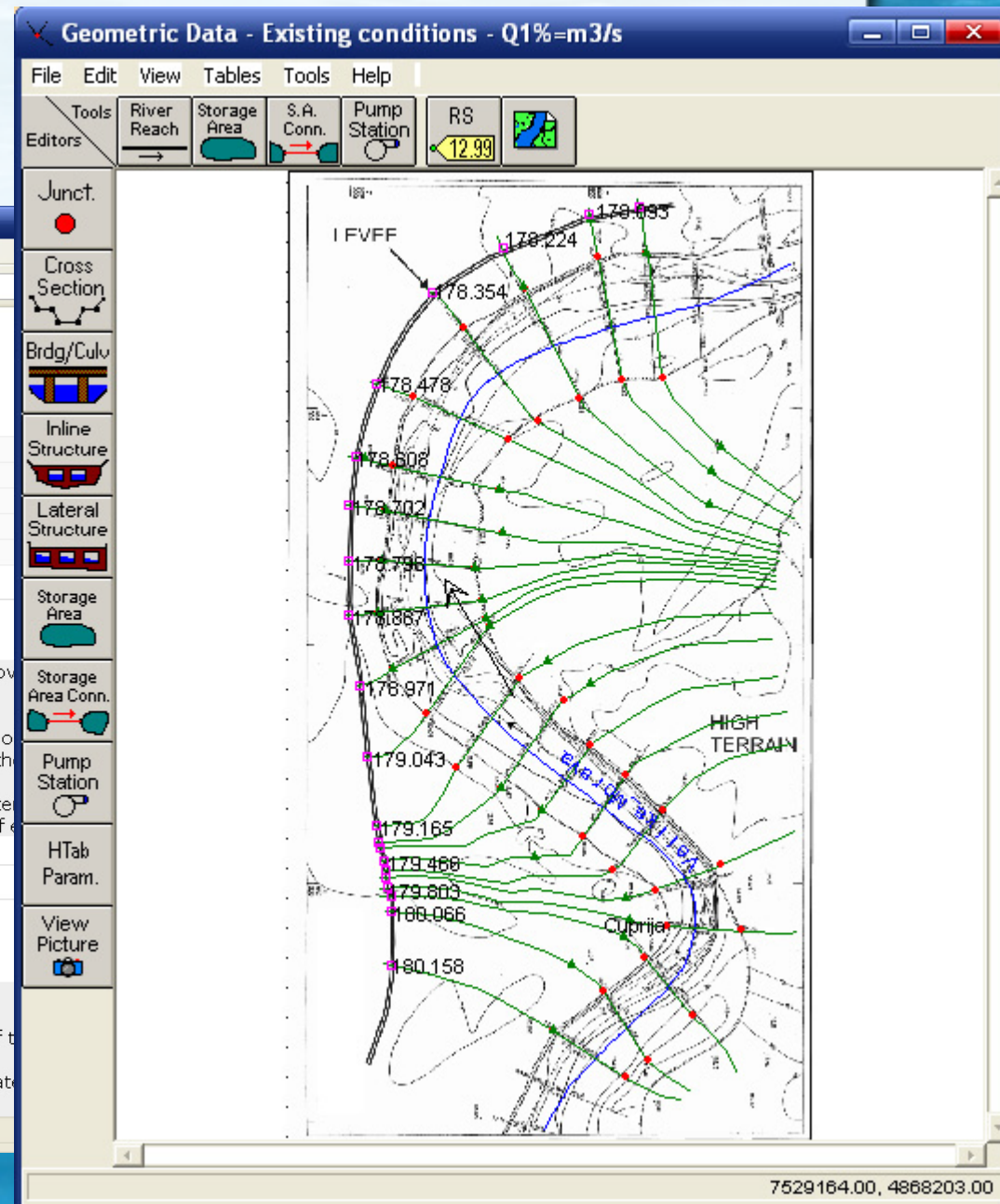
**2** What are the main elements characterizing a flooded area?  
Marks: 10

Answer:

The main elements characterizing a flooded area are:

- initial humidity of the soil, previous to the occurrence of t
- level of the underground water;
- intensity of the infiltration process, influenced by the state which the soil was laboured for agricultural purposes;

Done



## Које су предности овог курса?

- Прилагођен је и подређен људима који су запослени
- Настава на енглеском је предност, а не мана
- Размена искустава са другим факултетима и рад интернационалном окружењу
- Путовања, стицање нових познанстава и пријатеља (можда и најлепши део курса)





## EDUCATE 2008/2009 - уводна недеља у Београду



- Уводна предавања и обука за коришћење платформе
- Упознавање студената
- Зајденичка вечера





## EDUCATE 2008/2009 – одбрана мини тезе у Љубљани



- Презентовање тезе на енглеском
- Дружење, провод са новим пријатељима
- Излет до Трста и Венеције





## EDUCATE 2009

- Генерација 2008 наставља са тематским областима 3 и 4 и припремом велике тезе
- Завршен је упис нове генерације студената

Очекијемо вас следеће године на



<http://www.water-msc.org>