



*Ministero degli Affari Esteri*  
*Direzione Generale per la Cooperazione  
allo Sviluppo*



*Ministero dell'Istruzione, dell'Università e della  
Ricerca*



UniAdrion  
Virtual University of the Adriatic-Ionian Basin

**MASTER IN ECONOMICS FOR  
A SUSTAINABLE DEVELOPMENT OF THE ADRIATIC IONIAN BASIN**

UniAdrion Graduate Summer School

University of Rijeka  
Rijeka (Croatia)  
13<sup>th</sup> September- 24<sup>th</sup> September 2004

*Under the aegis and with the support of:*  
The Italian Ministry of Foreign Affairs  
The Italian Ministry of University, Education and Research  
University of Rijeka



University of Rijeka



Università degli Studi di Bologna

**UNIADRION - VIRTUAL UNIVERSITY OF THE ADRIATIC-IONIAN BASIN** - Universities, being main structures involved in the production of culture and innovation, play an essential role in regional cooperation and dialogue. Cooperation and dialogue are in turn the seed of peace and integration in Europe. In the context of the Adriatic-Ionian initiative - launched in Ancona (May 2000) by the Ministries of Foreign Affairs of all countries of the area - inter-university cooperation plays a role of paramount importance by promoting the sharing of cultures and knowledge. The Ravenna Conference (*Culture as a bridge*, December, 2000) launched a Virtual University for the entire Adriatic-Ionian basin. The *UniAdrion Charter*, signed by 21 Universities in Ravenna on January 31, 2001, involves seven countries: Slovenia, Croatia, Serbia&Montenegro, Bosnia-Herzegovina, Albania, Greece and Italy, thus covering an important part of South-Eastern Europe. The whole region can derive great benefits from the promotion of the cultural heritage and sustainable development, protection of the environment, increase of cultural tourism, improvement of communication and commercial networks; those benefits will concern security and development. By focusing on the same themes, the single universities can greatly contribute and, by sharing the innovative initiative of a Virtual University, they can carry out various educational programmes, as well as research activities and joint initiatives with interdisciplinary and multilateral aspects that will strengthen the common European roots.

**CROSS-DISCIPLINARY AND INTER-REGIONAL APPROACH**- The Summer School, linking the scientific community of the different countries involved in the Ionian-Adriatic Initiative (but also of other countries), aims at approaching the sustainable development of infrastructure networks and related offered services in the area with an interdisciplinary perspective as described below.

**PROGRAMME**- Entirely in English, the Summer School Programme includes the following topics: financing transport infrastructure, environmental impact of infrastructure, maritime transport and logistics with additional hints on statistics. A number of case studies will be presented and discussed. A study tour will be organised.

**TARGET AUDIENCE**- The Summer School is addressed to graduates with at least a three-year degree, as well as to officials already working in local, national or international agencies belonging to the countries of the Adriatic-Ionian Initiative. Participants will be aiming at careers requiring competence in managing and planning transport systems at various levels in local, national, and international governmental, as well as non-governmental, organisations.

**CREDITS**- All universities involved are encouraged to grant their students academic recognition for their participation. Students will obtain a certificate of attendance. The total workload corresponds to 4 ECTS credits. This includes attendance at all lectures and workshops/seminars.

## PROGRAMME

### TIMETABLE PROGRAMME

DAY 1 – 13 <sup>th</sup> Sep	DAY 2 – 14 <sup>th</sup> Sep	DAY 3 – 15 <sup>th</sup> Sep	DAY 4 – 16 <sup>th</sup> Sep	DAY 5 – 17 <sup>th</sup> Sep
Opening ceremony	BAJRAMBASIC – Financing of Transport Infrastructure	TATIC – Environmental Impact	TATIC – Environmental Impact	TATIC – Environmental Impact
BAJRAMBASIC – Financing of Transport Infrastructure	BAJRAMBASIC – Financing of Transport Infrastructure	TATIC – Environmental Impact	TATIC – Environmental Impact	Study Tour

DAY 6 – 20 <sup>th</sup> Sep	DAY 7 – 21 <sup>st</sup> Sep	DAY 8 – 22 <sup>nd</sup> Sep	DAY 9 – 23 <sup>rd</sup> Sep	DAY 10 – 24 <sup>th</sup> Sep
PANGE - Statistics	KESIC – Maritime Transport & Logistics	KESIC – Maritime Transport & Logistics	JAKOMIN – Maritime Transport & Logistics	JAKOMIN – Maritime Transport & Logistics
KESIC – Maritime Transport & Logistics	KESIC – Maritime Transport & Logistics	JAKOMIN – Maritime Transport & Logistics	JAKOMIN – Maritime Transport & Logistics	JAKOMIN – Maritime Transport & Logistics

### DAY TO DAY DETAILED PROGRAMME

Morning sessions will start at 9.00 a.m. and will end at 1.00 p.m. as well as afternoon sessions will start at 2.30 p.m. and end at 6.30 p.m. if not different specified.

The opening ceremony on Monday, 13<sup>th</sup> will start at 10.00 a.m.

Coffee and lunch breaks will be organised accordingly to time slots required by different lecturers.

### SATURDAY 11<sup>th</sup> September 2004 , and SUNDAY 12<sup>th</sup> September 2004

Arrival and accommodation of students

### MONDAY 13<sup>th</sup> September 2004

10.00 a.m.

#### OPENING CEREMONY

*Ms: Ana Puljic Zunjic CEI National Coordinator, Head of Unit for Council of Europe and Regional Initiatives  
Ministry of Foreign Affairs*

*Vice-chancellor of Rijeka University*

*Mr. Zeljko Glavan Town Council Chairman of Rijeka*

*Mr. Bojan Hlaca Principal of the Port of Rijeka Authority*

#### PRESENTATION OF THE PROGRAMME OF THE SUMMER SCHOOL

*MAEST Coordinator*

Afternoon: 4 hours

Prof. Izet Bajrambasic: **FINANCING OF TRANSPORT INFRASTRUCTURE**

**SECTION 1: TRANSPORT INFRASTRUCTURE PROJECTS**

*Project Concept*

*Project Management*

*Project Life Cycle*

*Terms of Reference (TOR)*

*Project Cycle*

- *Project Identification*
- *Project Preparation*
- *Project Appraisal (Technical Appraisal, Financial Appraisal, Economic Appraisal, Institutional Appraisal,*
- *Social Appraisal, Environmental Impact Assessment)*
- *Presentation, Negotiations and Credit Agreements*
- *Project Implementation*

*Monitoring (Observing) and Control of the Project*

*Evaluation of Project Realization*

**SECTION 2 : SOURCE OF FINANCING OF TRANSPORT INFRASTRUCTURE**

*International Financial Institutions (IFI)*

*World Bank*

*European Bank for Reconstruction and Development*

*European Investment Bank (EIB)*

*Government (State) Finances*

*EU Programmes*

*Commercial Banks*

*Capital Markets*

*Project Participants*

*Export Credits Agency*

**TUESDAY 14th September 2004**

Morning: 3 hours

Prof. Izet Bajrambasic: **FINANCING OF TRANSPORT INFRASTRUCTURE**

**SECTION 3 : PRIVATE FINANCIAL INITIATIVE (PFI/PPP'S)**

*PFI/PPP'S*

*Historical development*

*PFI/PPP's projects in the world*

*PPP's forms and schemes*

*Participants and the interest of the participants in PPP's projects*

*Project financing*

*The role of the state in PPP's implementation*

*Legal frame for PPP's*

*Business frame for PPP's*

*PPP's project cycle*

*Financial and economic assessment (NPV, IRR, Method of financial payback, BCR)*

**SECTION 4: PROCUREMENT PROCEDURE**

*Strategy of procurement procedure and external consultants*

*Team and team work for procurement procedure*

*Preparation of the documents for procurement*

*Pre-qualification*

*Invitation and instructions to the bidders*

*Preparation of the proposal and alternative proposal*

*Bid (proposal) evaluation*

*Agreements and financial arrangements*

*Preliminary agreements*

*Concession agreement*

- Other agreements and contracts*
- Implementation - building*
  - Implementation - operational work and maintenance*
  - Implementation - transfer*
- Monitoring, control and informing*

**Afternoon: 2 hours**

*Prof. Izet Bajrambasic: FINANCING OF TRANSPORT INFRASTRUCTURE*

**SECTION 5 : RISKS IN PPP PROJECTS & CASE STUDIES**

*General*

*Reputation of the country and concession surrounding for risks*

*Risks management*

*Possible risks in PPP projects*

*Elimination, lessening and allocation of risks*

*International political risks*

*Foreign direct investments (FDI) and political risks*

*Insurance market for political risks in investments*

*MIGA*

*Export credit agencies (ECA)*

*Costs of guarantees and insurance*

*Models of assessment of the political risk events*

*Key factors for assessment of insurance against political risk events*

**WEDNESDAY 15<sup>th</sup> September 2004**

**Morning: 4 hours**

*Assistant professor Kasim Tatić, Ph.D: ENVIRONMENTAL ECONOMICS AND SOCIAL IMPACT OF TRANSPORT*

**SECTION 1: INTRODUCTION**

**1. What is Environmental Economics?**

*Classification of environmental issues*

*Economy-environment interactions*

*The environment as an economic and social asset*

*Emissions, ambient quality and damages*

**Afternoon: 4 hours**

*Assistant professor Kasim Tatić, Ph.D: ENVIRONMENTAL ECONOMICS AND SOCIAL IMPACT OF TRANSPORT*

**SECTION 2: ANALYTICAL TOOLS**

**2. Economic efficiency and markets**

*Economic efficiency*

*Efficiency and equity*

*Markets and social efficiency*

*External costs*

*External benefits*

**3. The economics of environmental quality**

*Pollution control - general model*

*Pollution damages*

*Abatement costs*

*The socially efficient level of emissions*

*Enforcement costs*

*The equi-marginal principle applied to emission reductions*

## **THURSDAY 16<sup>th</sup> September 2004**

Morning: 4 hours

Assistant professor Kasim Tatić, Ph.D: ENVIRONMENTAL ECONOMICS AND SOCIAL IMPACT OF TRANSPORT  
SECTION 3: ENVIRONMENTAL POLICY ANALYSIS

4. *Criteria for evaluating environmental policies*
  - Efficiency*
  - Fairness*
  - Incentives for long run improvements*
  - Enforceability*
  - Moral considerations*
  - Government failure*
  
5. *Command and control strategies: The case of standards*
  - Types of standards*
  - The economics of standards*
  - Standards and incentives*
  - The economics of enforcement*
  
6. *Incentive-based strategies*
  - Emission charges*
  - Subsidies*
  - Transferable discharge permits*

Afternoon: 4 hours

Assistant professor Kasim Tatić, Ph.D: ENVIRONMENTAL ECONOMICS AND SOCIAL IMPACT OF TRANSPORT  
SECTION 4: THE ECONOMIC AND SOCIAL IMPACTS OF TRANSPORT

7. *The social costs of land transport*
  - The concept of "social costs"*
  - Methodological aspects and definitions*
  - The social costs of noise*
  - The social costs of air pollution due to transport*
  - The social costs of safety*
  - Other social costs of transport*
  - The total social cost of land transport*

## **FRIDAY 17<sup>th</sup> September 2004**

Morning: 4 hours

Assistant professor Kasim Tatić, Ph.D: ENVIRONMENTAL ECONOMICS AND SOCIAL IMPACT OF TRANSPORT  
SECTION 5: ENVIRONMENTALLY SUSTAINABLE TRANSPORT

8. *Environmentally sustainable transport (EST)*
  - Definition of sustainable development*
  - EST visions and their importance*
  - Instruments for achieving EST*
  - Strategies for achieving EST*
  - Economic and social implications of EST*
  - Barriers for achieving EST*
  - EST and economic development*
  
9. *EST market principles and reform*
  - Techniques for quantifying and monetizing transport impacts*
  - Full cost pricing including external costs*
  
10. *Case studies and relevant update statistical data*

Afternoon  
Study Tour

**MONDAY 20<sup>th</sup> September 2004**

Morning: 4 hours

*Prof. Jenny Pange: DEMOGRAPHIC ISSUES ON TRANSPORT POLICIES (3 hours)*

*Prof. dr. sc. Pavao Komadina: THE PROPOSAL OF THE COAST GUARD IN REPUBLIC OF CROATIA (1 hour)*

Afternoon: 4 hours

*Prof. dr. sc. Damir Zec: INTERNATIONAL SYSTEM OF MARITIME SAFETY, SECURITY AND POLLUTION PREVENTION – INTERNATIONAL REQUIREMENTS AND THEIR IMPACT ON MARITIME TRADE*

**TUESDAY 21<sup>st</sup> September 2004**

Morning: 4 hours

*Prof. dr. sc. Blanka Kesic: MARITIME PASSENGER TRAFFIC LOGISTICS*

Afternoon: 4 hours

*Prof. dr. sc. Dragan Cisic: PORTS IN DIGITAL WORLD. LOGISTICAL MODELS OF LINER SHIPPING*

**WEDNESDAY 22<sup>nd</sup> September 2004**

Morning: 4 hours

*Prof. dr. sc. Boris Pritchard: SYSTEM OF MARITIME EDUCATION AND TRAINING IN THE WORLD*

Afternoon: 4 hours

*Ass. prof. dr. sc. Klavdij Logozar: MANAGING THE GLOBAL SUPPLY CHAINS*

**THURSDAY 23<sup>rd</sup> September 2004**

Morning: 4 hours

*Mr. sc. Gregor Veselko, MTMM: THE DRIVERS BEHIND ELECTRONIC SUPPLY CHAINS*

Afternoon: 4 hours

*B. Sc. Milan Pucko: COLD CHAIN LOGISTICS*

**FRIDAY 24<sup>th</sup> September 2004**

Morning: 4 hours

*Ass. prof. dr. sc. Igor Jakomin & Bojan Brank, spec. mgmt: GLOBALISATION PROCESSES IN LOGISTICS*

Afternoon: 4 hours

*Ass. prof. dr. sc. Igor Jakomin: DEVELOPMENT OF DISTRIBUTION CENTERS INTO SEA PORTS*

## UNIADRION GRADUATE SUMMER SCHOOL

### MAEST – MASTER IN ECONOMICS FOR A SUSTAINABLE DEVELOPMENT OF THE ADRIATIC IONIAN BASIN

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## *Location of the Summer School*

### **FACULTY OF THE MARITIME STUDIES, UNIVERSITY OF RIJEKA**

The Faculty of Maritime Studies, University of Rijeka, was founded in 1949 under the name of the Merchant Marine Training College of Rijeka. It was the first maritime education and training institution of higher education in Croatia. In 1978 the College was transformed into the Faculty of Maritime Studies and joined the University of Rijeka, offering both diploma and B.Sc courses in maritime and transport studies. Since 1982 the Faculty has run M.Sc and PhD courses in maritime and transport studies.

Following the process of quality awareness, in 2001 the Faculty gained ISO 9001:2000 certificate of quality issued by the national and international classification societies (Croatian Register of Shipping and Bureau Veritas). Again, in the 2004 the certification was carried through again.



The Faculty of Maritime Studies Rijeka is situated very close to the centre of the town. It can be reached on foot from the railway or the bus station or from the harbour in a very short time.

Among its mission and principal objectives, there are the following:

1. Maritime education & training:
  - MET of marine officers under STCW 1995 Convention
  - opportunity for maritime officers to achieve academic degree
  - education and training of academically and vocationally qualified personnel for the management level in:
    - maritime administration, coastguard & harbourmaster's offices
    - shipping companies, ports and ports authorities, shipbuilding and port industry
    - shipping & forwarding agencies
    - logistics of maritime transportation
    - protection of the marine environment
    - inland waterways operation & administration, land and intermodal transportation
2. Projects and feasibility studies for the Croatian Maritime Administration, shipping industry, ports, etc.
3. R & D in the maritime industry

Additionally, the Faculty of Maritime Studies Rijeka offers the following sorts of courses for acquiring watchkeeping certificates of competency as per IMO STCW Convention 1978/1995:

- Watchkeeping Courses - STCW 1995
  - Deck Department
  - Engine-room Department
  - Marine Electronics and Maritime Communications
- Supplementary Certificates of Competence (STCW 1995)

- Special-purpose courses other than STCW are also offered at request
- Custom designed courses upon request

The MTC's safety certificates and diplomas are internationally recognized. Only the most highly trained instructors are employed on the courses. The theoretical part of the courses is taught in Faculty's classrooms equipped with the latest audio-visual aids. Computer-based training sessions use the recent technology. For the practical part, which constitutes by far the larger part of most courses, there is a wide range of up-to-date equipment available, such as a simulators, launching installations for rescue capsules, a free-fall launching tower, various fast boats for rescue operations, etc.

