

**UNIVERSITY OF RIJEKA - FACULTY OF MARITIME STUDIES**

**UNDERGRADUATE AND GRADUATE  
ACADEMIC PROGRAM**

**TECHNOLOGY AND ORGANISATION OF TRANSPORT**

**RIJEKA, 2014**



## **MAIN DATA AND ORGANIZATION OF THE FACULTY**

### **MANAGEMENT OF THE FACULTY**

Dean:

**Professor Serdo Kos, Ph.D., FRIN**

Vice-Dean for Academic Affairs

**Assistant professor Igor Rudan, Ph.D.**

Vice-Dean for Business Relations and Finance:

**Assistant professor, Alen Jugović Ph.D.**

Vice-Dean for Vocational Training and Development:

**Assistant professor Dragan Martinović, Ph.D.**

Vice-Dean for Scientific and Research Activities:

**Associate professor Boris Sviličić, Ph.D.**

Secretary:

**Željko Ševerdija, L.L.B.**

### **INTERNAL ORGANIZATION**

#### **Department of Marine Engineering and Power Supply Systems**

- Headed by: Professor Ivica Šegulja, Ph.D.

#### **Department of Marine Electronic Engineering, Automatic Theory and Information Technology**

- Headed by: Associated professor Nikola Tomac, Ph.D.

#### **Department of Logistics and Management in Maritime Affairs and Transport**

- Headed by: Professor Dragan Čišić, Ph.D.

#### **Department of Nautical Sciences and Maritime Transport Technology**

- Headed by: Associated professor Robert Mohović, Ph.D.

#### **Department of Technology and Organization in Maritime Affairs and Transport**

- Headed by: Professor Čedomir Dundović, Ph.D.

#### **Department of Social Sciences**

- Headed by: Assistant professor Biserka Rukavina, Ph.D.

#### **Department of Natural Sciences**

- Headed by: Assistant professor Biserka Draščić Ban

#### **Department of Foreign Languages**

- Headed by: Jadranka Valentić, M.A.



## ADMINISTRATIVE STAFF

Dean's Office Secretary:

**Blaženka Konjhodžić**

Head of the Seafarers Vocational Training Centre and Public Relations Officer:

**Marija Šimić Hlača, MSc.** (in maritime transport technology)

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Student Records Office:

- Headed by: **Mirjana Petelin, MSc. (educationist and informatician)**
  - Administrative Staff: **Jadranka Gumbarević, Željka Vidmar, Vanja Nakičenić**
- 

Informatics and Computer Centre:

- Headed by: **Ezio Hafner**
  - Computer Officers: **Slobodan Popić, Marko Bratic**
- 

Library:

- Headed by: **Dolores Markotić, MSc., librarian**
  - Assistant librarian: **Tamara Gržinčić**
- 

Course Materials Bookshop:

- Publishing Associate: **Vesna Vranić Kauzlarić, MSc. (in maritime technology)**
- 

Accounting Department:

- Headed by: **Spomenka Georgijević, MSc. (Econ.)**
- 

Personnel and General Administrative Service Department:

- Headed by: **Tatjana Domazet**
-



## CONTACTS:

### Telephone Exchange and Doorman's Booth:

Tel. No.: +385 51 33 84 11

Fax No.: +385 51 33 67 55

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### Dean's Office:

Room 308

Tel.No.: +385 51 21 10 46

Fax No.: +385 51 33 67 55

E-mail: [dekanat@pfri.hr](mailto:dekanat@pfri.hr)

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### Student Records Office:

Room 305

Tel.No.: +385 51 33 84 11

(extension 142, 148,149,154)

**Office hours:** from 11 a.m. to 1 p.m.  
on working days

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### Library:

Room 332

Tel.No.: +385 51 21 46 05

+ 385 51 33 84 11 (extension 162, 163)

**Working hours:** Monday, Tuesday, Wednesday, Thursday from 9 a.m. to 7 p.m.

Friday from 9 a.m. to 1 p.m.

**Computers available:** Monday, Tuesday, Wednesday, Thursday from 9 a.m. to 7 p.m.

Friday from 9 a.m. to 1 p.m.

For detailed information about the rules of lending books please contact the library.

E-mail: [bib@pfri.hr](mailto:bib@pfri.hr)

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### Course Materials Bookshop:

- located in the courtyard of the Faculty.

**Working hours:** from 10 a.m. to 2 p.m.  
on working days

Exam registration and withdrawal forms and books can be bought here.

E-mail: [vyranic@pfri.hr](mailto:vyranic@pfri.hr)

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### Students' Union, Pom-f-ri, Plima:

Location: a little house in the courtyard of the Faculty, near the gym.

Tel. No.: +385 51 33 84 11

E-mail: [sz-plima@net.hr](mailto:sz-plima@net.hr)

For any questions or problems concerning your study, please contact your year study programme representative.

Consultations with students are held in the „Plima“ premises on Monday from 10 to 12 a.m.



## **A HISTORY OF THE FACULTY OF MARITIME STUDIES**

The Rijeka Faculty of Maritime Studies can trace its origins back to the year 1866 when, in the premises of the today's City Hospital, the Austro-Hungarian Naval Academy was founded and which flourished in its activities till 1914. In 1889 it became the Imperial and Royal Naval Academy (Marine Academie) .

At the outbreak of the First World War, the Academy was closed and moved from Rijeka to Vienna. It is important to notice that some famous Croats, Admiral Maximilian Njegovan (1858-1930) and the noble Admiral Janko Vuković-Podkapelski (1871-1918), a distinguished officer in the Austro-Hungarian navy appointed as the first commander-in-chief of the navy of the State of the Slovenes, Croats and Serbs, graduated from the Academy.

The education at the Academy included a four-year study programme attended by all those coming from across the Austro-Ungarian Monarchy and holding an A-level secondary school diploma. The Academy ceased its activities in 1914 when it turned into a field hospital functioning as such till 1918, when, after the fall of the Austro-Ungarian Monarchy, it was transformed into the main City Hospital.

This break into the field of maritime higher education lasted till 1949, when, on 4<sup>th</sup> April 1949, the Rijeka Merchant Marine College was founded by the decree issued by the Government of the Federal People's Republic of Yugoslavia. In the years to follow, the Rijeka Merchant Marine College developed into the Faculty of Maritime Studies and is still today one of the world's leading maritime education and training institutions.

Since the very beginning of its educational activities, the Rijeka Merchant Marine College has experienced several stages in its development:

- In 1978, the Merchant Marine College was transformed into the Faculty of Maritime Studies and Transportation. Its activities continued until 1998, when two independent educational institutions were established – the Rijeka College of Maritime Studies and the University Department of Maritime Studies of the University of Rijeka.
- In the course of the year 2001, the Ministry of Science and Technology of the Republic of Croatia brought a decision on the merge of the Department of Maritime Studies of the University of Rijeka and the Rijeka College of Maritime Studies into the Faculty of Maritime Studies of the University of Rijeka, the one and only maritime education and training institution that has been acting as such since then.



## TECHNOLOGY AND ORGANIZATION OF TRANSPORT

The study programme is based on the needs and requirements of the market asking for a qualified and trained staff able to lead the whole process of transporting goods from the initial point of departure to the final destination by using the most recent technological and economic concepts. Students graduating from such a study should be able to make a valuable contribution aiming at meeting the needs of transport and transshipment, of a coordinated economic development, of the price stability, of improving the traffic of goods and passengers and the standards of living as well. The study programme faces its application in different branches of maritime economy and in different scientific fields, thus representing the basis for successful activities of shipping companies and for that of competent public and civil authorities as well. After graduating from the Faculty, the students are prepared for work in institutions the activities of which are closely connected with maritime affairs, as well as in shipping, transport and business companies responsible for the realization and management of transport services.

The undergraduate study programme is grounded in training students to be able to perform a wide variety of works in the transport technology areas. The courses deal with technology, maritime economics, law, techniques in the rationalization and optimization of sea and inland transport services. The acquired knowledge will enable the graduates to find work in many institutions of their proper field as well as to organize successfully the transport operations in different publicly- or privately-owned maritime and transport companies closely associated with maritime practice.

First year students enrolled at the *undergraduate study of Technology and Organization of Transport* register for the following courses in the academic year 2013/2014:

### *Winter semester (I)*

No.	Course holder	Compulsory course	Lectures	Practical work sessions	ECTS credits
1	Tibor Poganj	Mathematics 1	3	2	6
2	Jadranka Valentić	English language 1	1	2	4
3	Pavao Komadina	Ship design and construction	3	1	5
4	Hrvoje Baričević	Transport technology fundamentals	2	1	4
5	Axel Luttenberger	Commercial law	2	1	5
6	Tanja Poletan Jugović	Trade routes	2	1	5
7	Maja Redžić	Physical training 1	0	2	1

### *Summer semester (II)*

No.	Course holder	Compulsory course	Lectures	Practical work sessions	ECTS credits
1	Tibor Poganj	Mathematics 2	3	2	7
2	Biserka Draščić Ban	Statistics	3	2	6
3	Mato Tudor	Applied computer science	3	2	6
4	Goran Vukelić	Engineering mechanics	2	2	6
5	Jadranka Valentić	English language 2	1	2	4
6	Maja Redžić	Physical training 2	0	2	1



Second year students enrolled at the *undergraduate study of Technology and Organization of Transport* register for the following courses in the academic year 2013/2014:

***Winter semester (III)***

No.	Course holder	Compulsory course	Lectures	Practical work sessions	ECTS credits
1	Svjetlana Hess	Operational researches	3	2	6
2	Čedomir Dundović Ines Kolanović	Maritime system	2	1	4
3	Axel Luttenberger	Maritime administrative law	3	0	4
4	Čedomir Dundović Ines Kolanović	Ports and terminals	3	1	6
5	Hrvoje Baričević Tanja Poletan Jugović	Cargoes in transport	3	1	5
6	Jadranka Valentić	English language 3	1	2	4
7	Maja Redžić	Physical training 3	0	2	1

***Summer semester (IV)***

No.	Course holder	Compulsory course	Lectures	Practical work sessions	ECTS credits
1	Dragan Čišić	Logistics in transport	2	2 + 1	6
2	Edvard Tijan	Information technologies	3	2	7
3	Damir Zec Hrvoje Baričević	Safety in transport	3	1	6
4	Alen Jugović	Port and shipping economics	3	2	6
5	Jadranka Valentić	English language 4	1	2	4
6	Dragan Martinović	Physical training 4	0	2	1

Third year students enrolled at the *undergraduate study of Technology and Organization of Transport* register for the following courses in the academic year 2013/2014:

***Winter semester (V)***

No.	Course holder	Compulsory course	Lectures	Practical work sessions	ECTS credits
1	Hrvoje Baričević	Land transport technology	3	2	5
2	Tanja Poletan Jugović Biserka Rukavina	Forwarding and shipping agencies	3	1	4
3	Jadranka Valentić	English language 5	2	1	3

In the fifth semester, students can register for the following optional courses to the minimum workload of 17 ECTS credits:

No.	Course holder	Optional course	Lectures	Practical work sessions	ECTS credits
1	Ante Bistričić	Transport management	3	1	4
2	Dragan Čišić	E-business	1	2	3
3	Axel Luttenberger	Transport law	2	0	2
4	Vjekoslav Koljatić	Ecology in transport	2	0	2
5	Goran Vukelić	Engineering mechanics	2	2	3
6	Ante Bukša	Technical drawing	1	2	3
7	Nada Ivanetić	German language	1	2	3



	Mirjana Borucinsky				
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***Summer semester (VI)***

No.	Course holder	Compulsory course	Lectures	Practical work sessions	ECTS credits
1	Vinko Tomas	Automation in transport	2	1	4
2	Čedomir Dundović	Cargo handling equipment	3	2	5
3	Jadranka Valentić	English language 6	1	2	4
		B.Sc.essay			6

In the sixth semester, students can register for the following optional courses to the minimum workload of 11 ECTS credits:

No.	Course holder	Optional course	Lectures	Practical work sessions	ECTS credits
1	Blanka Kesić	Transport economics	3	1	4
2	Svjetlana Hess	Internal transport and warehousing	3	1	4
3	Čedomir Dundović Antun Kraš	Transport system maintenance	2	1	3
4	Svjetlana Hess	Transport demand planning	2	1	4
5	Biserka Rukavina	Maritime transport law and marine insurance	3	0	4
6	Enco Tireli	Power supply systems	2	1	3

The graduate study programme is conceived as an expanded programme of the undergraduate study programme. It aims at providing students with competences for organizing transport activities and for a successful work in various maritime and transport institutions and other maritime oriented companies (ports, port authorities, shipping companies, shipping agencies, forwarding agencies, customs offices, road hauliers, railway carriers, harbour master's offices, ministry competent for maritime affairs and transport, etc.)

First year students enrolled at the *graduate study of Technology and Organization of Transport* register for the following courses in the academic year 2013/2014:

***Winter semester (I)***

No.	Course holder	Compulsory course	Lectures	Practical work sessions	ECTS credits
1	Tibor Poganj	Applied mathematics	2	2	6
2	Čedomir Dundović Ines Kolanović	Research work methodology	2	0	6
3	Svjetlana Hess	Technological processes in transport	2	2	6

In the first semester, students can register for the following optional courses to the minimum workload of 12 ECTS credits:

No.	Course holder	Optional course	Lectures	Practical work sessions	ECTS credits
1	Dragan Čišić	Supply chain management	2	1	4
2	Damir Zec	Marine technologies	2	1	4
3	Aleksandra Deluka Tibljaš Hrvoje Baričević	Land transport planning	2	1	4



### *Summer semester (II)*

No.	Course holder	Compulsory course	Lectures	Practical work sessions	ECTS credits
1	Sedo Kos	Integrated and multimodal transport	3	1	6
2	Čedomir Dundović	Maritime and transport policy	2	1	6
3	Čeomir Dundović	Planning and designing port terminals	2	2	6

In the second semester, students can register for the following optional courses to the minimum workload of 12 ECTS credits:

No.	Course holder	Optional course	Lectures	Practical work sessions	ECTS credits
1	Vlado Frančić	International maritime safety system	2	1	4
2	Ines Kolanović	Quality management in maritime affairs	2	0	4
3	Antun Kraš	Technical system reliability and safety	2	1	4

Second year students enrolled at the *graduate study of Technology and Organization of Transport* register for the following courses in the academic year 2013/2014:

### *Winter semester (III)*

No.	Course holder	Compulsory course	Lectures	Practical work sessions	ECTS credits
1	Dragan Čišić	Modeling and simulation	2	2	6
2	Ante Bistričić	Project management	2	1	6
3	Axel Lutenberger	Transport law of the European Union	2	0	6

In the third semester, students can register for the following optional courses to the minimum workload of 12 ECTS credits:

No.	Course holder	Optional course	Lectures	Practical work sessions	ECTS credits
1	Blanka Kesić	Shipping and port management	2	1	4
2	Mirano Hess	Coastal area management	2	1	4
3	Tibor Poganj	Stochastic processes	2	2	4
4	Čedomir Dundović	Planning and designing marinas	2	1	4
5	Blanka Kesić	Financing in maritime affairs	2	1	4

### *Summer semester (IV)*

In the fourth semester, students can register for the following optional courses to the minimum workload of 12 ECTS credits:

No.	Course holder	Compulsory course	Lectures	Practical work sessions	ECTS credits
1	Svetlana Hess	Queuing theory	2	2	4
2	Vinko Tomas	Intelligent transport systems	2	1	4
3	Axel Lutenberger	Environmental law	2	0	4
4	Alen Jugović	Seaborne passenger traffic	2	1	4

		M.Sc. thesis			18
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