

DESCRIPTION OF A STUDY COURSE – SYLLABUS

| | | | | | |
|---|---|-----------------|--|---------------------|---|
| Title of a course | Multimodal Transport | | | | |
| Head of course | PhD Saša Hirnig, College Professor | | | | |
| Study programme | Specialist professional graduate study Transport | | | | |
| Status of a course | Obligatory | | | | |
| Year of study | 1. | Semester | II | ECTS credits | 6 |
| Teaching plan (L + E + S+ Pr) | 2+2+0+0 | | | | |
| Goals of a course | | | | | |
| Understanding the relevant features of integral and multimodal transport. | | | | | |
| Conditions for enrolling course | | | | | |
| No conditions | | | | | |
| Learning outcomes on a level of a study programme which includes course | | | | | |
| <p>Outcome 2: Apply international, European and national legislation in the implementation of technological and service processes in the field of road/ railroad transport.</p> <p>Outcome 3: Apply economic solutions to transport systems while respecting the fundamental financial, marketing, ethical, management and other economic principles.</p> <p>Outcome 4: Offer solutions for transport system planning based on sustainable development principles.</p> <p>Outcome 5: Manage and lead road/ railroad transport development activities.</p> <p>Outcome 9: Use methods for optimizing technological processes in road/ railroad transport.</p> | | | | | |
| Expected learning outcomes on a level of a course | | | | | |
| <ol style="list-style-type: none"> 1. Substantiate the need for interconnection of individual transport branches in the provision of transport services 2. Identify the preconditions for the successful functioning of multimodal transport 3. Evaluate the features, advantages and disadvantages of some modern transportation technologies 4. Critically evaluate the development of multimodal transport in the Republic of Croatia | | | | | |
| Content of a course | | | | | |
| <p>Theoretical features and achieved level of multimodal transport development.</p> <p>Multimodal transport international legislation. Advanced transport technologies as a base of multimodal transport development. Palletisation, containerization, Ro-Ro transport technology, huckepack transport technology, other multimodal transport technologies. Transport documents in multimodal transport. Goods transport model designing and analysis in multimodal transport. Interrelatedness of participants in multimodal transport.</p> | | | | | |
| Teaching modes | <input checked="" type="checkbox"/> lectures <input type="checkbox"/> auditory exercises <input checked="" type="checkbox"/> seminars and workshops <input type="checkbox"/> distance learning <input type="checkbox"/> field classes | | <input checked="" type="checkbox"/> individual assignments <input type="checkbox"/> multimedia and network <input type="checkbox"/> laboratory <input type="checkbox"/> supervisor's work <input type="checkbox"/> other _____ | | |
| Comments | | | | | |
| Students' obligations | | | | | |
| | | | | | |
| Grading, evaluation and monitoring of students' work continuously during lectures and exams | | | | | |
| Grading is based upon evaluation of adoption of course's learning outcomes. Grading is performed continuously during lectures and/or during exam, in compliance with the provisions of Regulation on the assessment of students. | | | | | |

Continuous check-up:

| Outcomes | Pre-exam I | Pre-exam 2 | Seminar work * | Threshold | Max |
|--------------------|------------|------------|----------------|-----------|-------|
| Outcome 1 | 18 | | | 9 | 18 |
| Outcome 2 | 25 | | | 13 | 25 |
| Outcome 3 | 15 | 20 | | 18 | 35 |
| Outcome 4 | | 22 | | 11 | 22 |
| Percentage of ECTS | 2,5 | 2,5 | 1 | | |
| Total | | | | 50 % | 100 % |

* The topic can be related to any outcome. Seminar paper carries a maximum of 1/3 of the predicted percentages of the respective outcome.

A student has passed the exam if he has acquired a percentage of credits for each learning outcome higher or equal to defined threshold.

Exam term:

| Outcomes | Written exam | Oral exam | Max |
|--------------------|--------------|-----------|-------|
| Outcome 1 | 10 | 8 | 18 |
| Outcome 2 | 20 | 5 | 25 |
| Outcome 3 | 20 | 15 | 35 |
| Outcome 4 | 12 | 10 | 22 |
| Percentage of ECTS | 3,5 | 2,5 | |
| Total | 62 | 48 | 100 % |

A student has passed the exam if he has acquired a percentage of credits for each learning outcome higher or equal to defined threshold.

Grading:

A student has passed the exam if he has acquired at least 50% of anticipated credits of a specific learning outcome.

If a student has passed learning outcomes of all courses, the accomplished credits (percentages) of all passed learning outcomes are being added, while the final grade is defined upon following table:

| Range of credits (percentages) | Numerical grade | ECTS grade |
|--------------------------------|------------------|------------|
| 90,00 – 100,00 | Excellent (5) | A |
| 75,00 – 89,99 | Very good (4) | B |
| 60,00 – 74,99 | Good (3) | C |
| 50,00 – 59,99 | Sufficient (2) | D |
| 0,00 – 49,99 | Insufficient (1) | F |

Obligatory literature

1. Miloš, I.: Tehnologija i organizacija intermodalnog prometa, 2011.

Additional literature

1. Brnjac, N.: Intermodalni transportni sustavi, 2012.
2. Zelenika, R.: Pravo multimodalnog prometa, 2006.
3. Komadina, P.: Brodovi multimodalnog transportnog sustava, 1998.
4. Nikolić, G., Multimodalni transport, 2004.

