

Capstone Course

Course Overview

The Prominent course is divided into two parts: the Basic Module and the Case Study (see Fig. 1).



Figure 1 - Capstone Course Overview

There are four learning modules within the Basic Module on the following topics:

- Use & comparison of transport modes
- Economic geography and infrastructure of waterways
- Multimodal Transport
- Innovative transport concepts and green logistics

At first students have 4 weeks to work on the Basic Module - 1 week per learning module. Each learning module is finished by taking the test. Afterwards, students work on one of the provided Case Studies. Each case has a similiar task for students but they were elaborated with different companies. A blog is provided on the ILIAS-platform to enable an exchange between students and the industry during working on the Case Study. Students have 3 months to work on the Case Studies. At the end, students will present their results by holding a 20 minutes-presentation. The case study is evaluated by teachers. In addition, student evalute their group members using a Peer-evaluation form. The final grade consists of the results in the Basic Module, the Case Study and the Peer-evaluation.



Provided Material

Each learning module consists of 4 sections which should be worked through chronological:

- 1. Worksheet the worksheet includes information about the learning aims of the module as well as an overview of the relevant learning materials for the test.
- 2. Learning Material In this section, the mandatory learning materials for the test are provided.
- 3. **Test** Each module is finished by taking a test consisting of 15 questions, which are divided into easy, average and difficult questions. Students get one attempt and have 15 minutes to finish the test. Participants have to reach 60 % or more to pass the test.

In addition, a section including other useful links for each module is provided.

Three case studies are provided on different topics including a teaching note, the Peer-evaluation form and other documents including relevant information for the Case Studie (e.g. Data-Sheets for a specific Case Study). The topics, tasks and evaluation of the case studies are described in teaching note.

	Basic Module
Module 1 - Use & comparison of transport modes	Module Structure
Module 2 - Economic geography and infrastructure of waterways	 Worksheet - It includes information about the learning aims of the module as well as an overview of the relevant learning materials for the test.
Module 3 - Multimodal transport	 Learning Materials - this section includes the mandatory learning materials for the test. Test - a mediate is finished by taking the test.
Module 4 - Innovative transport concepts and green logistics	3. Test - a module is finished by taking the test. In addition, further useful links for each module are provided.
	Case Studies
Case 1 - Background Logistics & Management	Provided Materials per Case Study: 1. Teaching Case- which includes the concrete tasks of the case study and can be handed out to students.
Case 2 - Background Inland Waterway Transport	 Teaching Note - which includes instructions for lecturers about the aims of the case study and the evaluation. Further Data- if relevant for the case study, further information are provided as well.
Case 3 - Background Engineers Inland waterway	In addition, a blog is provided where students can document their work done during the case study and exchange their experience with other students who are working on other case studies.





Grading

The grading for the capstone course is divided into three parts:

1. Basic Module - 15 % of final grade

Grading per Test:

Percentage	Points	Note
90-100%	81-90 points	Very good
80-90%	72-81 points	Good
70-80%	63 - 72 points	Satisfactory
60-70%	54 - 63 points	Sufficient
0-60 %	0-54 points	Not sufficient

2. Case Study - 70 % of final grade

The grading of the Case Study is described in the teaching note!

Percentage	Points	Note
90-100%	35 - 42 points	Very good
80-90%	28- 35 points	Good
70-80%	21 - 28 points	Satisfactory
60-70%	14 - 21 points	Sufficient
0-60 %	0-14 points	Not sufficient

3. Peer Evaluation - 15% of final grade

The peer evaluation grading is described in the peer-evaluation-form which is provided within the case study section!

Final points per student:

total number of points distributed to one student

(number of students per group) -1

Point-range per student: 7 - 15 points



Grading scale for final grade:

(Points Test Module 1 +...+ Points Test Module 4) x 0,15 + Points Case Study x 0,7 + Points Peer Evaluation x 0,15 = Total points for capstone course

Percentage	Points	Note
90-100%	77 - 86 points	Very good
80-90%	68 - 77 points	Good
70-80%	59 - 68 points	Satisfactory
60-70%	51 - 59 points	Sufficient
0-60 %	0 - 51 points	Not sufficient

Example:

	Points	Points per part	Weighting	Score per part	
Test Module 1	72				
Test Module 2	63	200	15 %	42.2	
Test Module 3	90	288 15 %		43.2	
Test Module 4	63				
Case Study	36	36	70 %	25.2	
Peer Evaluation	10	10	15 %	1.5	
	•		TOTAL SCORE	69.9 ~70 points	
			Grade	Good	



Platform Description

Tests

The tests are integrated at each Module, after the learning materials (see Figure 6).

In addition a Blog is provided were students can document their work done during the case study and exchange their experience with other students who are working on the case study. Module 1 - Use & comparison of transport modes This module, as the first module of four learning modules, gives an overview on the characteristics of inland navigation in comparison with other transport modes Worksheet Module 1 🔳 Worksheet Module 1 📮 Actions 🔻 pdf 366.3 KB 19. Jul 2016, 12:50 Learning Material (Module 1) 😔 Basics of Inland Navigation – REWWay Teaching Materials The slides lead you through the basics of inland waterway transport. 🔳 Manual on Danube navigation 📮 Actions 🔻 pdf 11.3 MB 19. Jul 2016, 10:14 Test - Module 1 🛷 Module 1 - Test Actions 🔻 Useful links - "Use & comparison of transport modes" Danube Logistics Portal Actions 🗸 nines-danube.info/ilias.php?baseClass=ilBr يتراجينه التربينية الراجيات Figure 3 - Where to find the test

Take the test

To start the test, click on "Module 1 - Test". An introductory message is provided.



When clicking on the button ^[Start the Test] ("Start the test") on the left side you start the test (currently there is no time limit so you can take your time doing the test). The list of questions included in your test is provided. In addition the maximum points per question are provided in this overview (see Figure 8).



List of Questions

(1 - 15 of 15)				Back Finish the Test
Order	Title	Obligatory	Maximum Points	Answered
1	M2-A1-Q06		4 Pt.	
2	M2-A1-Q03		6 Pt.	
3	M1-A4-Q03		8 Pt.	
4	M2-A2-Q08		4 Pt.	
5	M2-A2-Q05		6 Pt.	
6	M2-A2-Q07		8 Pt.	
7	M2-A3-Q05		4 Pt.	
8	M2-A3-Q03		6 Pt.	
9	M2-A3-Q04		8 Pt.	
10	M2-A4-Q06		4 Pt.	
11	M2-A4-Q02		6 Pt.	
12	M2-A4-Q04		8 Pt.	
13	M2-A5-Q02		4 Pt.	
14	M2-A5-Q04		6 Pt.	
15	M2-A5-Q01		8 Pt.	
				Back Finish the Te

Figure 5 - List of questions

By clicking on the title of a question you attain the concerning question. For example, clicking on "M2-A4-Q02" - you can now answer the question (Figure 9).

		Suspend the Test 📀
<< Previous	List of Questions	Next >>
Question 11 of 15 - M2-A4-Q02 (6	Points)	
Inland waterway infrastructure mainly influence conditions influence the number of the containe Please tick the statement(s) that is/are valid:		hat parameters related to the navigation
\bigcirc the bridge clearance above the water level	on the highest fix point of the vessel.	
\odot the length of the voyage and the possibility	y to navigate on bad weather conditions.	
\bigcirc the navigation in conditions of fog and the	navigation without radar.	
\odot the height of the crane mounted on the ver	ssel for loading and unloading.	
<< Previous	List of Questions	Next >>

As shown in Figure 12, there are different menu items provided:

- By clicking sourcan go to the previous question
- By clicking week you can go to the next question
- By clicking List of Questions you can go back to the overview (see Figure 8)
- By clicking Suspend the Test 2 you end the test
- By clicking 📃 you can show the list of questions aside the questions (see Figure 10)





Figure 7 - Show question list aside

By clicking on the symbol again (symbol \square) you can hide the question list again and you will again just see the question (see Figure 9).

If you have already answered the questions but you are not sure if you have missed some, you can go to "List of questions" (List of Questions"). On the right side you have a column ("Answered") where you can see whether you have already answered all questions or not.

(1 - 15 of 15)				
				Back Finith the Test
Order	Title	Obligatory	Maximum Points	Answered
1	M2-A1-Q06		4 Pt.	
2	M2-A1-Q03		6 Pt.	
3	M1-A4-Q03		8 Pt.	Yes
4	M2-A2-Q08		4 Pt.	
5	M2-A2-Q05		6 Pt.	
6	M2-A2-Q07		8 Pt.	
7	M2-A3-Q05		4 Pt.	
8	M2-A3-Q03		6 Pt.	
9	M2-A3-Q04		8 Pt.	
10	M2-A4-Q06		4 Pt.	
11	M2-A4-Q02		6 Pt.	Yes
12	M2-A4-Q04		8 Pt.	1 1
13	M2-A5-Q02		4 Pt.	1 1
14	M2-A5-Q04		6 Pt.	1 1
15	M2-A5-Q01		8 Pt.	

Figure 8 - Answered/not answered questions in list of questions

When you have answered all questions and you want to finish the test, you have to click on "Finish the Test" at the bottom right corner (see Figure 12).



(1 - 15 of 15)				
				Back Finish the Test
Order	Title	Obligatory	Maximum Points	Answered
1	M2-A1-Q06		4 Pt.	Yes
2	M2-A1-Q03		6 Pt.	
3	M1-A4-Q03		8 Pt.	Yes
4	M2-A2-Q08		4 Pt.	
5	M2-A2-Q05		6 Pt.	
6	M2-A2-Q07		8 Pt.	
7	M2-A3-Q05		4 Pt.	
8	M2-A3-Q03		6 Pt.	
9	M2-A3-Q04		8 Pt.	
10	M2-A4-Q06		4 Pt.	
11	M2-A4-Q02		6 Pt.	Yes
12	M2-A4-Q04		8 Pt.	
13	M2-A5-Q02		4 Pt.	
14	M2-A5-Q04		6 Pt.	
15	M2-A5-Q01		8 Pt.	

Figure 9 - Finish the Test

Test results

When you have finished the test, your test results are provided (see Figure 13). You can then see the main information about your test results - if you have failed or not.

	Message Print PDF Export				
-					
Date of Test: 31.	Jul 2016, 17:41				
Pass Overview	w of the Test Results				
(1 - 1 of 1)					
Scored Pass	Pass Date	Answered Questions	Reached Points	Percent Solved	
8	1 31. Jul 2016, 17:41	3 of 15	18 of 90	20.00%	Actions 👻
(1 - 1 of 1)					
Sorry, you failed Your resulting ma					

Figure 10 - Test results

You can download this information by clicking on the button 2 at the top.

By clicking on "Actions" on the right side, at the end of the pass overview of the Test Results - and clicking "pass details" (see Figure 14) - you have an overview of e.g. the reached points per question and the percent solved per question (see Figure 15).



Back to Introductory Mes	sage	Print DF Export				
Test Results fo	r Tes	t FHOO				
Name: Test FHOO Exam Id: I4747_T45	533_A:	1037_P1				
Date of Test: 31. Jul	2016,	17:41				
Pass Overview o	f the	Test Results				
(1 - 1 of 1)						
Scored Pass	Pass	Date	Answered Questions	Reached Points	Percent Solved	
8	1	31. Jul 2016, 17:41	3 of 15	18 of 90	20.00%	Actions 🗸
(1 - 1 of 1)						Pass Details
Sorry, you failed the						
Your resulting mark i	s: "fail	ed"				

Scored Pa	ass Pass	Date	Answered Questions	Reached Points	Percent Solved	
8	1	31. Jul 2016, 17:41	3 of 15	18 of 90	20.00%	Actions 🖣
(1 - 1 of 1)						
	u failed the test. Iting mark is: "fail	led"				
Order	Question ID	Title	Maximum P	oints Reach	ned Points	Percent Solve
1	2488	M2-A1-Q06		4	4	100.00 9
2	2492	M2-A1-Q03		6	0	0.00
3	2497	M1-A4-Q03		8	8	100.00 9
4	2498	M2-A2-Q08		4	0	0.00
5	2500	M2-A2-Q05		6	0	0.00
6	2502	M2-A2-Q07		8	0	0.00
7	2504	M2-A3-Q05		4	0	0.00
8	2509	M2-A3-Q03		6	0	0.00
9	2512	M2-A3-Q04		8	0	0.00
10	2515	M2-A4-Q06		4	0	0.00
11	2516	M2-A4-Q02		6	6	100.00 9
12	2519	M2-A4-Q04		8	0	0.00
13	2520	M2-A5-Q02		4	0	0.00
14	2522	M2-A5-Q04		6	0	0.00
15	2526	M2-A5-Q01		8	0	0.00
Total				90	18	20.00

Figure 11 - Details about Test Results 1

Figure 12 - Details about Test Results 2

When clicking on a question shown in Figure 15, you can compare your answers with the correct answers for the questions (see Figure 16).

M2-A1-Q03 (6 Points) Your answer was:
There are different classes of inland waterways in Europe because some are relevant for international transport and some are only relevant for national transport. Which waterways in Europe are considered important from an economic point of view? Please tick the statement(s) that is/are valid: class IV or higher. only class IV. class I to III. class I to VII.
The best solution is:
 class IV or higher. only class IV. class I to III. class I to VII.

