



Klaipeda University (KU) in co-operation with the Leibniz-Institute for Baltic Sea Research (IOW),
Warnemünde, Germany

Coastal Management II Practical student course in Germany

** Course specification **

This practical course complements the seminar 'Coastal Management I' by Prof. Dr. G. Schernewski at
Klaipeda University.

- Responsible:** Prof. Dr. Gerald Schernewski
Location: Leibniz-Institute for Baltic Sea Research Warnemünde, Germany
Duration: Annually for 2 weeks in April/May until 2018
No of participants: Max. 14 (preferably Master students)
Course size: 6 credits (60 contact hours)

Suitable for Klaipeda University study programmes: Ecology and Environment studies, Marine Hydrology, Geoinformatics, Human Geography, Recreation and Tourism Management, Ichthyology and Aquaculture, others are welcome too.

Topics/content: Practical application of a Systems Approach Framework (SAF) covering topics like coastal geography, integrated coastal management, spatial planning, sustainable development, coastal ecology, climate change adaptation, coastal erosion and protection, beach management, aquaculture and coastal fisheries, microbial water pollution, bathing water quality and Blue Flag, tourism development, culture and history. The course does not require a special background or knowledge.

Teaching/learning methods: The programme includes excursions and visits, field work, practical exercises, laboratory work, lectures, student presentations and interactive group work. Every day is dedicated to one topic, involves local scientists and experts and usually consists of an introductory lecture, an excursion or field trip and a student activity or laboratory work.

Objectives: Practical knowledge how to solve coastal problems and issues in a systematic, interdisciplinary manner by using a SAF and Ecological-Social-Economic (ESE) assessment schemes; detailed insight into coastal ecology, management and planning as well as culture and nature in Germany; establishment of contacts and social networks to German students, practitioners and scientists; strengthening of practical skills and team-work, as well as organisational and presentation capabilities.

Practical agreements: There will be no course-fee. Travel costs including bus and over-night stays are covered by Klaipeda University. Costs of accommodation in Germany and possible other costs are covered by BaltCoast project and/or IOW. Breakfast will be provided in the hostel. Other food costs are covered by the participants.

Student application and selection process is responsibility of Klaipeda University in co-operation with the Lithuania course co-ordinator (contact person).



Coastal Management II Practical student course in Germany

17th- 30th April 2016

**** Programme ****

- Responsible:** Prof. Dr. Gerald Schernewski, phone: +49 381 5197207; email: schernewski@eucc-d.de
Egle Baltranaite (Lithuanian co-ordinator & contact person), phone: +370 686 77309; email: eglebalt@hotmail.com
together with A.-L. Buer, R. Friedland, M. Inacio, H. Janssen, D. Karnauskaite, J. Schumacher, N. Stybel
- Accommodation:** Hanse-Hostel Rostock, Doberaner Str. 96, D-18057 Rostock,
Phone. +49 (0) 381 – 252 999 80; email: haus2@hanse-hostel.de,
Web: <http://www.hanse-hostel.de>
- Location:** Leibniz-Institute for Baltic Sea Research Warnemünde, Germany
Seestraße 15, D-18119 Rostock-Warnemünde (parking place at IOW)
Web: www.io-warnemuende.de/
- Participants:** Max. 14 (preferably Master students); bus capacity 17 places.
- Course size:** 60 contact hours (6 credits) lectures and exercises plus preparation time;

During the course each student will give a brief thematic presentation of about 10 minutes (usually in the field, without ppt). The topics are indicated in the programme below and will be distributed on the first meeting in Lithuania. Not all topics have to be covered. Students will search the Internet for suitable literature on his/her topic or in emergency contact the responsible person for that topic/day.

The **list of participants** including email addresses should be provided until late 2015 to allow a distribution of rooms and to support practical arrangements. (Egle, Toma).

One or two weeks before the departure, a **pre-meeting in Klaipeda** will be arranged by the Lithuanian co-ordinator to introduce the students as well as to distribute tasks and topics (Egle, Toma).



Programme

Saturday, 16th departure from Klaipėda by bus (Egle, Toma)

Sunday, 17th arrival in Rostock by bus

Monday, 18th Gerald with Mirco (room 043 at IOW in Warnemünde)

Coastal Zone Management basics & locals case studies

09:00 – 09:30 Introduction (all)

09:30 – 11:30 Lecture: Introduction about ICZM and System Approach Frameworks (SAF) for coastal assessment

12:30 – 14:30 Practical exercises – Micro-litter beach methods (Mirco)

14:30 Excursion Warnemünde

(with student presentations on “1. Dune development” “2. Sea level rise at the German Baltic Coast”)

Tuesday, 19th Lucie & Donalda, supported by Luca (room 043, 338)

Microbial bathing water quality

09:00 – 10:30 Lecture on hygienic bathing water quality

10:30 – 13:00 Water sampling, CTD and transparency measurements around the Warnow estuary (by bus)
(with student presentations on “4. Vibrions in bathing waters”, “5. Salmonella pollution cases in coastal waters”, “6. *E.Coli* O157 a new threat”)

14:00 Laboratory work

Wednesday, 20th Egle, Lucie, Donalda (room 043, 338)

Coastal tourism, Blue Flag & Environmental Quality Lables

09:00 – 11:00 Lecture Tourism, Blue Flag & Quality Lables

11:00 – 12:30 Laboratory work (Water sampling results)

13:00 – 18:00 Exercise/Excursion Kühlungsborn

(with student presentations on “7. Tourism at the German Baltic coast”, “8. Air pollution by ships in the Baltic”, “9. Ballastwater discharge related environmental problems”)

18:00 Beer & snacks at IOW

Thursday, 21st (main hall)

Conference ‘Geography of Coasts and Seas’

9:00 – 17:00 Scientific presentations

Friday, 22nd (main hall)

Conference ‘Geography of Coasts and Seas’

9:00 – 17:00 Scientific presentations

18:00 Drinks, snacks & dancing at IOW

Saturday, 23rd Johanna, supported by Thomas Leipe and Mirco

Coastal protection management & coastal geography

08:30 Excursion: Coastal protection and nature restoration case study Markgrafenheide/Hütelmoor

11:30 Lunch break at Karls Erdbeerhof



15:00 Return



Sunday, 24th (free day)

Monday, 25th Miguel, supported by Yaroslava, Juliane & Mirco (room DWD-Villa)

Ecosystem Services & coastal biology/culture

09:00 – 10:30 Lecture (IOW)

11:00 – 17:00 Excursion/Exercise Darss-Zingst Bodden Chain

(with 2*10 min. student presentations on “11. Importance of water transparency” and “12. Cultural Ecosystem Services in coastal waters”)

Tuesday, 26th Holger (room DWD-Villa)

Coastal and marine spatial planning

09:00 – 11:00 Lecture on coastal and marine spatial planning (IOW)

11:00 – 16:00 Exercise (with student presentations on “14. Ship traffic in the Baltic”, “15. The new German-Russian gas pipeline”)

Wednesday, 27th Nardine, supported by Lucie & Luca (room DWD-Villa)

Coastal fisheries & aquaculture

09:00 – 11:00 Lecture on aquaculture and coastal fisheries + roleplay (IOW)

11:00 – 17:00 Excursion Rostock, fish market & aquaponic plant

(with student presentations on “16. Coastal aquaculture at the German Baltic Coast” and “18. Fishing methods in Baltic coastal waters”)

Thursday, 28th Rene & Gerald (room DWD-Villa)

Modelling, simulations & Climate Change adaptations

09:00 – 10:30 Lecture

11:00 – 16:00 Practical exercise

16:00 Lecture on climate change adaptation (Gerald, room 227)

17:00 Final meeting & evaluation (all, room 227)

Friday, 29th Donalda, Johanna, Egle & Toma

Departure to Klaipeda with visits of Timmendorf (coastal protection measure) and the historic open air museum in Molfsee (near Kiel)

Saturday, 30th

Arrival in Klaipeda