



## **WP3: Transparency in Teaching and Education**

### ***Introduction***

The WP3 questionnaire overall had 31 respondents from different countries representing a range of educational institutes. The countries which responded were Belgium, Holland, Germany, Denmark, Sweden, Norway, Poland, Ireland, United Kingdom, Spain, France, Czech Republic, Slovakia, and Turkey.

Section 1: questionnaire results

Section 2: conclusions

Questionnaire sample size :

Possible participants: 83

Respondents: 31

Sample size: 37.3%

### ***Section 1: Questionnaire results***

#### **A. Selection procedure**

##### **1. What are the requirements for entrance to an under-graduate course?**

- 39% National school leaving certificate at appropriate level
- 30% International baccalaureate certificate at appropriate level
- 13% Specific entrance examination
- 7% Technical college qualification
- 11% Other

##### **2. Can other EU nationals apply?**

- 100% Yes

##### **If yes: what additional entry requirements are there?**

- 49% Internationally recognised certificate at university entrance level
- 28% Proficiency in host country language
- 23% Proficiency in English

## B. Course content and organisation

### 3. Does your university run a specific marine science/aquaculture/aquatic resources course leading directly to a degree?

Yes 65%

No 35%

#### If Yes, please give the title of the course

1. Aquaculture Fish Diseases - Theory and Practice
2. B.Sc Animal Husbandry (Hungarian only)
3. B.Sc Marine Sciences
4. BIM 390 Introduction to Aquaculture
5. Biological basis in marine productions - Zootechnology and marine cultures - Biological basis and techniques for sustainable aquaculture - Techniques and production systems for invertebrate and marine algae - Techniques and production systems for freshwater fish - Techniques and production systems for tempered water marine fish - Aquaculture engineering - Aquatic production market - Introduction to reproduction and genetics - Aquaculture nutrition and feeding - Animal Health and Welfare management - Business Administration - Aquaculture - environment interactions management -
6. Biosciences/Bioengineering  
B..Sc (Hons) Freshwater science B.Sc. (Hons) Aquaculture B.Sc.(Hons) Marine biology
7. B.Sc. Zoology, B.Sc. Ecology
8. Diploma in aquaculture, B.Sc.
9. Freshwater aquaculture, Marine aquaculture, Fish Nutrition, Fish Diseases, aquaculture engineering
10. Hydrology and Water Management (75 hours in 1 semester) Biodiversity - animals (114 hours in 2 semesters) Applied Ecology (42 hours in 1 semester)
11. Ichthyology - aquaculture - aquatic resource management - fisheries - aquatic environment
12. Marine Biology - Physical & Chemical Oceanography - Fisheries Technology - Fish culture - Shells culture - Other new species culture - Nutrition of aquatic species - Economical Management of aquaculture - Protected species - Sustainability in aquaculture
13. Master in Fisheries and Aquaculture sciences
14. M.Sc., B.Sc.,
15. MSc. Fishery Science and Aquaculture described at: [www.agrar.hu](http://www.agrar.hu) – 16. [berlin.de/studium/studierende/studgang/mfs/](http://berlin.de/studium/studierende/studgang/mfs/)
17. The B.Sc. degree given is not in aquaculture - it is B.Sc. degree in Fisheries in general. Many courses in aquatic sciences - aquaculture - fisheries - processing and other general courses are obligatory.
19. [www.ege.edu.tr](http://www.ege.edu.tr)
19. [www.istanbul.edu.tr](http://www.istanbul.edu.tr)

#### 4. What is the minimum duration of the course?

62% - 3 year programme

38% - 8 semester (4 year) programme

#### 5. Is the course divided into yearly or modular structure?

48% yearly

33% Modular courses

19% A combination of Year level and modules

### C. Credits required to complete the course

#### 6. How many course modules are required in order to obtain a Bachelor degree(or equivalent)?

In order to obtain a B.Sc., on average 44 modules need to be taken, with as extremes minimum 10 and maximum 88 courses. On average, 45 modules are compulsory. Expressed in ECTS (in 93% of the programmes, ECTS are used as course descriptors), this comes down to an average of 130 ECTS credits to obtain a B.Sc. and in 77% of the cases, an academic year has an ECTS-load of 60.

**If Yes,**

**How many ECTS credits are required to complete the course?**

- 60 per year 71.5%
- more than 180 18%
- less than 180 3.5%
- unprocessable 2 = 7%

### D. Impact of Bologna reforms and TUNING

#### 7. Has the Bachelor programme been revised as a result of the Bologna reforms?

Yes 70%

No 30%

**If Yes, please give details of the changes that have been made.**

1. Before the academic year of 2006/2007 we just had 5 year higher diploma degrees. Now we have two bachelor degrees (Biosciences and Bioengineering) of 3 years (180 ECTS) - plus several master degrees (2 years / 120 ECTS)
2. Previously a Master Degree required 300 ECTS - but was divided as a consequence of the Bologna reforms into a Bachelor programme of 180 ECTS and a Master programme of 120 ECTS (3+2)
3. Reduction in the number of presential credits Elaboration of ECTS guide  
Development of informatic and electronic resources for teaching and learning  
Development of academic supervised activities Electronic and specialized tutorial activities  
New methodologies for evaluation
4. Structural changes of the course - reduction and simplification of the contents - introduction of more practical modules
5. The Bachelor programme was not revised but actually created to comply with the Bologna process. It is in effect as of the beginning of the academic year 2006 - 2007.
6. The division for BSc and MSc studies - a uniform structure consisting of a 3 - year Bachelors - a 2 - year Masters and a 3 - year doctoral degree - level education
7. the extent of the courses has been changes to some degree. The curriculum is more programmed
8. Using ECTS
9. We are now in the process of revising the course
10. Yes. Erasmus Univ. Chart (31439 - IC - 1 - 2002 - 1 - GR - ERASMUS - EUC - 1) of ATEITH - Adaptations in department level (i.e. ECTS - Diploma supplement)

**8. Are you aware of the TUNING project?**

Yes 75%

No 25%

**If Yes, does your department/institution take the TUNING recommendations into consideration when planning the course modules?**

Yes 85%

No 15%

**If Yes**

**Is the course described in terms of Learning Outcomes, as is recommended for the Diploma Supplement and in the TUNING Project?**

Yes 76%

No 24%

**9. Does the course include the following components? Please tick the appropriate box.**

- Lectures 100%
- Tutorials 65.5%
- Laboratory work 100%
- Field Work 96%
- Oral presentation 93%
- Literature review 77%
- Dissertation/thesis 81%

**E. ERASMUS Exchanges**

**10. Is it possible to carry out an ERASMUS exchange as part of the recognised course?**

Yes 96.5%

No 3.5%

**If Yes, does the exchange involve any one of the following components:**

- Attendance at undergraduate courses 78.5%
- Conducting research projects 53.5%
- Obtaining work experience 43%
- 

**F. Course description and organisation (general course)**

**11. Does your university run aquaculture/marine science/aquatic resources modules as part of a more general degree course?**

Yes 75%

No. 25%

**If Yes**

**Are these course modules compulsory or elective?**

**Please give details of the content of these course modules**

1. - Aquaculture. **Compulsory** - Marine Facilities. **Compulsory** - Genetics in Aquaculture. **Elective** - Pathology. **Elective** - Technologies of marine food. **Elective** 1 semester each
2. **ALL compulsory:** Economy in Environmental Conservation - Environmental Monitoring - Fundamentals of Ecology - Spatial Planning - Law in Environmental Conservation - Technology in Environmental Conservation 1 semester each
3. An introductory course is offered to present main background of this activity. 1 semester

4. Aquaculture 5 credits **elective** 1 semester
5. B.Sc. Agricultural Course **One compulsory module**: Basics of Freshwater Fisheries  
One major in Freshwater Fisheries **with five elective modules**. 1 semester/150 hours
6. B.Sc.(Hons) Marine Science: H2 Marine Resources H3 Aquaculture H3 Project H4  
Marine Environmental Impact Assessment H4 Dissertation 1 semester each modules  
although half modules available in honours year.
7. **Compulsory**: Fish culture - Fish culture of euryhaline waters - Shells culture.  
**Elective**: New Species in aquaculture - Biological management of aquaculture 15  
lectures (1 semester)
8. **Elective within engineering (M.Sc) - elective within water and environmental  
technology (M.Sc)** each modules = 14 weeks = 1 semester
9. **Elective** BIM390 Intro to Aquaculture
10. Hydrobiology - **compulsory**. Aquaculture - **elective** Ichthyology - **elective**
11. Hydrobiology (**compulsory**) - basic aquaculture (**compulsory**)
12. M.Sc. Fishery Science and Aquaculture described at: [www.agrar.hu-berlin.de/studium/studierende/studgang/mfs/](http://www.agrar.hu-berlin.de/studium/studierende/studgang/mfs/)
13. Some compulsory, some elective
14. Some of them are elective at the 4<sup>th</sup> class

### G. ERASMUS Exchange general course

#### 12. Is it possible to carry out an ERASMUS exchange as part of the course module?

Yes 89%

No 11%

#### If Yes, does the exchange involve any one of the following components:

All programmes consist of a minimum of 3 components, 2 of them being lectures and lab work in all cases. The other options being:

- |   |      |
|---|------|
| <input type="radio"/> field work          | 96 % |
| <input type="radio"/> oral presentation   | 92 % |
| <input type="radio"/> dissertation/thesis | 81 % |
| <input type="radio"/> literature review   | 77 % |
| <input type="radio"/> tutorials           | 65 % |

#### 13. How are the course modules assessed, or how are the course credits gained?

- Formal written examination only 14%
- Formal written examination with other components 75%
- Continuous assessment 15 71.5%
- Progress tests 48%
- Thesis/dissertation 90%
- Laboratory work 100%
- Field work 86%
- Work placement 38%
- Other 28%

## H. Course assessment

### 14. What are the course assessment options?

- Number of assessment options:
  - 6 33 %
  - 5 or 7 22 %
  - 4 15 %
  - 3 5 %
  - 2 3 %
- Assessment types
  - laboratory work 19 %
  - formal written examination 17 %
  - thesis/dissertation 15 %
  - field work 14 %
  - continuous assessment 12 %
  - progress tests 8 %
  - work placement 6 %
  - formal written examination only 3 %

### ***Section 1: Conclusions***

The results of this detailed survey were very reassuring for the project as a whole. Almost all of the respondents not only knew about the ECTS, but 93% made use of it. It is very clear that this particular aspect of the changes in the European higher education system is well under way. What was also very reassuring, was that not only 75% of the respondent knew about the TUNING initiative, but 76% of the YES respondents were already using the Learning Outcomes approach. This means that the next part of the project, designing the TUNING Template, should not be too difficult to achieve.

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