

# **The Implementation Regulations**

## **Professional Doctorate in Engineering**

### **Bioprocess Engineering**

**2022 -2023**

**DELFT UNIVERSITY OF TECHNOLOGY**

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#### **Article 1      The study load**

1. The study load for the two year PDEng degree programme on Bioprocess Engineering equals 120 European Credits (3360 hours), EC, as defined in the European Credit Transfer System (1 EC = 28 hours of study) and laid down in the Teaching and Examination Regulations.
2. None of the components of the programme may have formed part of previously followed Bachelor's or Master's degree courses as laid down in the Teaching and Examination Regulations.
3. Extending the programme over the study load (article 1.1) is not preferred and only allowed after approval by the Board of Examiners.

#### **Article 2      Modules**

The programme consist of three modules:

- Core module (at most 25 EC),
- Design module (17 EC),
- Elective module (at least 18 EC),
- Project module (60 EC).

The subjects for each module are listed in articles 5-8.

#### **Article 3      The composition**

The Core Module, Design Module and the Elective Module are part of the first year. The Project Module is carried out in the second year.

#### **Article 4      Registering the profile and compiling the examination programme**

1. When commencing the programme, the trainee must prepare a study programme for the first year. The study programme must not only comply with the requirements given in articles 2 and 3, but must also comply with the timetables of the individual courses. In preparing the study programme the trainee will have the support of the study programme coordinator. After completion, the study programme must be submitted to the Board of Examiners for approval.
2. As part of compiling the study programme the trainee has to select a single profile. Only one profile is mentioned on the diploma. The selected profile must be submitted with the study programme to the Board of Examiners for approval.
3. Any amendments made to the approved study programme and/or profile must be presented to the Board of Examiners.
4. After completion of the first year a formal decision is taken whether the trainee is admitted to the second year in order to carry out the Project Module.

**Article 5 Core module**

1. The Core Module (at most 25 EC) contains five compulsory courses:
 

ST6612	Techno Economic Evaluation for Design Engineers	6 EC
ST6111	Project Management	2 EC
LM3741	Fermentation Technology and Environmental Biotechnology	6 EC
ST6534	Microbial Physiology	4 EC
	Coaching MSc LST Design Team	1 EC
ST6064	Advanced Principles in Product and Process Design	6 EC
2. The Board of Examiners will grant dispensation for subjects of the Core Module when a trainee has successfully completed them already during prior training as laid down in the Teaching and Examination Regulations. Credits for these subjects will be added to the Elective Module in such a way that the study load of the programme (article 1) is maintained.

**Article 6 Design module**

1. The Design Module (17 EC) contains two compulsory courses:
 

ST6811	Group Design Project	17 EC
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2. No dispensation for subjects based on prior training is possible in the Design Module.

**Article 7 Elective module**

1. The Elective Module contains various courses that amount to at least 17 EC in total. The courses should (a) expand the knowledge base of the trainee in the multidisciplinary field of chemical product design at master or post-master level and (b) develop the trainee in the area of the selected profile of a post-master level.
2. The courses selected for the Elective Module have to comply with the final attainment levels of the programme as laid down in the Teaching and Examination Regulations.
3. At least one course is related to the field of the selected profile. This course should be taught at post-master level (PhD, PDEng or similar) and can be offered by Delft University of Technology as well as by others.
4. No dispensation for subjects based on prior training is possible in the Elective Module.

**Article 8 Project module**

1. The Project Module (60 EC) contains one compulsory course:
 

ST6901	Individual Design Project	60 EC
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2. No dispensation for subjects based on prior training is possible in the Project Module.

**Article 9 Date of commencement**

These regulations will come into effect on 31 August 2022.

**Adopted by the Board of Examiners of Bioprocess Design**

