



**Karolinska  
Institutet**

Course syllabus for

## **Degree Project for Master's Degree (60 credits) in Dental Technology, 30 credits**

Examensarbete för magisterexamen i tandteknik, 30 hp

This course syllabus is valid from autumn 2020.

Please note that the course syllabus is available in the following versions:

[Autumn2011](#) , [Autumn2014](#) , [Autumn2018](#) , Autumn2020 , [Autumn2023](#)

Course code	2QA174
Course name	Degree Project for Master's Degree (60 credits) in Dental Technology
Credits	30 credits
Form of Education	Higher Education, study regulation 2007
Main field of study	Dental Technology
Level	Second cycle, contains degree project for Master of Arts/Master of Science (120 credits)
Grading scale	Pass, Fail
Department	Department of Dental Medicine
Decided by	Styrelsen för utbildning
Decision date	2011-01-25
Revised by	Education committee DENTMED
Last revision	2019-12-12
Course syllabus valid from	Autumn 2020

### **Specific entry requirements**

Bachelor's degree in Dental Technology and the course *Theory and methodology of science in odontology*, 15 credits, or the equivalent. In addition, further 15 credits in completed courses are required. And proficiency in Swedish and English equivalent to Swedish B/Swedish 3 and English A/English.

### **Objectives**

On completion of the course, the student should be able to:

- demonstrate knowledge and comprehension of dental technology, with a particular focus on the chosen field
- identify and design research questions
- show advanced knowledge of scientific methods and apply the acquired knowledge to the field of dental technology

- reflect on and apply ethical aspects in their own research area
- systematically search for and collect relevant data
- critically review, evaluate and synthesise information
- independently plan and complete a written project within a given time-frame, which contributes to the development of knowledge in the field of dental technology
- demonstrate an ability to, orally and in writing, communicate with others, regarding their own knowledge, conclusions and arguments
- evaluate their own work and scientific contribution, and show insight into the possibilities and limitations of research
- identify and take responsibility for their own need of further knowledge

## Content

The student independently, with consultative supervision, carries out a research project in the field of dental technology. The student is trained in the different aspects of the research process, including critical review of literature, data collection and analysis, as well as in giving oral presentations. By giving feedback on another student's work, the student's critical review skills are further enhanced.

The quality and scope of the project should correspond to a publishable article for a scientific journal in the dental field. The project is written in Swedish or English (optional) and supplemented with a summary in English or Swedish.

## Teaching methods

The main part of the course is dedicated to the completion of the project, which is implemented with the consultation of a selected supervisor. The progress is continuously monitored in scheduled seminars. There are also scheduled lectures on the selected topics.

Compulsory attendance is required at the scheduled seminars and lectures. The course coordinator decides whether, and if so how, absence from compulsory course elements can be made up.

The seminars and lectures are held at the Department of Dental Medicine at campus Flemingsberg, while the research project may be carried out either at the Department of Dental Medicine or elsewhere under the guidance of an appointed supervisor.

## Examination

Written presentation of the research plan; after the research plan is approved, the experiment or collection of material and data may proceed.

Written and oral progress report of the research project at a half-time seminar.

Written and oral presentation of the project at a seminar, as well as a written and oral peer review of another student's project.

If the student does not pass the half-time examination, does not submit the assignments related to the written project by the scheduled time, or does not attend the examination, they must wait until the next examination opportunity. Examinations are carried out once a semester.

## Transitional provisions

Examination will be provided during a time of two years after a possible close-down of the course.

## Other directives

Language of instruction: Swedish and English

## Literature and other teaching aids

### Recommended literature

*Wallén, Göran*

#### **Vetenskapsteori och forskningsmetodik**

2. uppl. : Lund : Studentlitteratur, 1996 - 151 s.

ISBN:91-44-36652-3 LIBRIS-ID:8353602

[Library search](#)

*Brunette, Donald Maxwell*

#### **Critical thinking : understanding and evaluating dental research**

2nd ed. : Chicago : Quintessence Pub. Co., c2007 - x, 312 p.

ISBN:978-0-86715-426-9 (pbk.) LIBRIS-ID:10682194

[Library search](#)

*Riegelman, Richard K.*

#### **Studying a study and testing a test : how to read the medical evidence**

4. ed. : Philadelphia : Lippincott Williams & Wilkins, 2000 - 356 s. + e 1 DC-ROM

ISBN:0-7817-1860-0 LIBRIS-ID:8307462

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