



INSTITUTE OF NEUROSCIENCE AND PHYSIOLOGY

FFT810 Advanced Pharmacotherapy, 7.5 credits

Fördjupad farmakoterapi, 7,5 högskolepoäng

Second Cycle

Confirmation

This course syllabus was confirmed by Institute of Neuroscience and Physiology on 2014-12-05 and was last revised on 2022-10-26 to be valid from 2023-01-16, spring semester of 2023.

Field of education: Pharmacy 100%

Department: Institute of Neuroscience and Physiology

Position in the educational system

The course can be part of the following programme: 1) Programme in Pharmacy (F2APP)

Main field of studies

Pharmaceutical Science

Specialization

A1F, Second cycle, has second-cycle course/s as entry requirements

Entry requirements

In order to be admitted to the course students are required to have passed all the courses up to semester 6 in the pharmacy program, including the courses in Pharmacology, disease theory and medicinal chemistry (37.5 credits). Furthermore, they are required to have completed courses in Galenic Pharmacy (15 credits) and Pharmacotherapy (7.5 credits) or the equivalent.

Learning outcomes

On successful completion of the course the student will be able to:

- Extract and interpret information from medical records including laboratory values, in order to identify disease and assess existing pharmacological treatment
- Provide motivated proposals regarding investigations or follow up actions that are

- of value to initiate, monitor or terminate drug treatment of a given patient
- Assess and evaluate a complex drug therapy based on the patient's individual situation and the properties of the drug, and thereafter provide structured and motivated proposals for changes in the pharmacological and non-pharmacological treatment of the patient
 - Identify and evaluate drug-related problems and provide clearly explained and individually tailored proposals for alterations.
 - Discuss and formally present treatment options for a given patient with respect to various drug recommendations and argue for appropriately tailored drug treatment and in a professional way relate opposing views.
 - Outline the limits of their knowledge and, identify focus areas for further development

Course content

This course provides advanced knowledge in pharmacotherapy and is based on earlier courses in pharmacotherapy as well as courses in pharmacology and disease theory, pharmacokinetics, statistics, pharmaceutical toxicology and galenic pharmacy. The main focus of this course is hospital health care, mainly within the disease areas pain, infection and cardiovascular disease. For each disease area, various therapies and treatment recommendations will be discussed and compared with respect to the individual's (the patient's) needs.

The student will work with, design and discuss realistic patient cases in the said disease areas, in the form of either summarised descriptions or journal extracts, including medical history, symptom and laboratory test results. In addition, the course includes combined cases that can include several disease areas that have been covered in this or an earlier course in pharmacotherapy, drug-related problems and therapeutic drug monitoring. Although the focus lies on pharmacological treatment, non-pharmacological treatment is also included. The cases are solved in groups but each student has personal responsibility for their own learning and group achievement. The cases are presented and discussed in plenary meetings, where each individual student is expected to contribute to the discussion.

During the course, the student will complete an independent project about laboratory test results, both as individual work and in groups. The work will be presented and discussed in a plenary meeting to provide broader knowledge of laboratory tests and increase the understanding of their importance.

Form of teaching

Teaching is given in the form of lectures, group assignments and seminars. The course also contains individual investigative assignments and self-study literature.

Language of instruction: Swedish and English

The language of instruction is Swedish, however, the course can be held in English if required.

Assessment

Active participation in seminars, oral and written presentation of assignments and written examination. During written examination a paperbackversion of FASS is allowed. The start of the course, all seminars, presentations and individual assignment are compulsory with recorded attendance.

In the case of absence or course failure, opportunities to re-take compulsory parts of the course are limited to the next course date and then only in case of a vacancy. However, students who have missed only occasional compulsory parts may have the possibility to obtain supplementary qualification earlier.

If a student, who has failed the same examined component twice, wishes to change examiner before the next examination, a written application shall be sent to the department responsible for the course and shall be granted unless there are special reasons to the contrary (Chapter 6, Section 22 of Higher Education Ordinance).

In cases where a course has been discontinued or has undergone major changes, the student shall normally be guaranteed at least three examination occasions (including the ordinary examination) during a period of at least one year from the last time the course was given.

Grades

The grading scale comprises: Pass with Distinction (VG), Pass (G) and Fail (U).

The grading scale comprises: High pass (VG), Pass (G), and Fail (U).

All assessed components must be passed to achieve a pass grade for the course.

Course evaluation

Course evaluation takes place in partnership with course participants both during and at the end of the course. An electronic course evaluation is also available at the end of the

course and the results will be shared with the students.

Additional information

The course is based on the pharmaco-therapeutical recommendations used in Swedish healthcare. The teaching material are therefore largely, but not exclusively, based on Swedish pharmacotherapeutical recommendations from various public authorities. English course literature is also referenced. Non Swedish speaking students are responsible for any translation tools needed to acquire information from relevant Swedish pharmacotherapeutical recommendations.