SYLLABUS

Medical Science: Cardiology 15 credits M7013H

Medicinsk vetenskap: Kardiologi

Course syllabus admitted: Autumn 2020 Sp 1 - Present

DECISION DATE
2020-02-21

Luleå University of Technology 971 87 Luleå, Sweden
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LULEÅ TEKNISKA UNIVERSITET

Medical Science: Cardiology 15 credits M7013H

Medicinsk vetenskap: Kardiologi

Second cycle, M7013H

Education level	Grade scale	Subject	Subject group (SCB)
Second cycle	U G VG	Medicinsk vetenskap	Medicine

Entry requirements

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Selection

The selection is based on 30-285 credits

Examiner

Ulrica Strömbäck

Course Aim

After successfully completing the course, the student will have deepened their knowledge of cardiovascular diseases and be able to reflect on evidence and current research in the subject, and be able to show how it should be applied in clinical work.

Contents

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- Physiology of the circulatory system.
- Prevention, etiology, pathophysiology, diagnostics, treatment and prognosis in various heart diseases: congestive heart failure, ischemic heart disease, cardiac dysrhythmia, cardiomyopathy, infections and inflammatory systemic diseases with cardiac involvement.
- Public health aspects of heart disease
- Medical and surgical treatment options.
- Current physiological, radiological and nuclear medical diagnostic methods for heart disease
- ECG diagnostics
- Pharmacology and medical treatment strategies
- Surgical treatment options.
- Strategies for primary and secondary prevention.
- Advanced study/specialization assignment based on current research.

Realization

Each course occasion´s language and form is stated and appear on the course page on Luleå University of Technology's website.
The course is conducted as a web-based - distance education at one-half the regular pace. The teaching takes the form of lectures, seminars, own studies with literature, and work on study assignments individually and in small study groups. The intensity and what the student will get out of the course depends to a great extent on the participants' overall commitment and level of ambition. In all forms of teaching, the student is stimulated by and encouraged to use critical thinking. Active participation in seminars is mandatory.

Examination

If there is a decision on special educational support, in accordance with the Guideline Student's rights and obligations at Luleå University of Technology, an adapted or alternative form of examination can be provided. The assessment of the course work takes place by means of written and oral presentation of study assignments and individual written exams. The forms of assessment and examination may vary.

The grading criteria for Pass or Pass with honors (G, VG) is stated in the Study Guide

Remarks

The course is given as part of a second-cycle study program. Study guidance can be found in the course room in Canvas.

Transition terms

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Literature. Valid from Autumn 2019 Sp 2

Dahlström, U., Nyström, F. & Jonasson, L. (red.) (2010). Kardiovaskulär medicin. (1. uppl.) Stockholm: Liber.
Insulander, P. & Jensen Urstad, M. (red.) (2015). Arytmier: mekanismer, utredning och behandling. (1. uppl.) Lund: Studentlitteratur.
Lind, Y. & Lind, L. (2010). EKG-boken, bok med eLabb. Stockholm: Liber.
Wikström, G. (red.) (2014). Hjärtsvikt: fysiologi, diagnostik, behandling och omvårdnad. (1. uppl.) Lund: Studentlitteratur.

Sök böcker på biblioteket »

Course offered by

Department of Health Sciences

Modules

Code	Description	Grade scale	Cr	Status	From period	Title
0001	Examination in cardiovascular physiology	U G VG	2	Mandatory	A19	
0002	Examination ECG diagnostic	U G VG	2.5	Mandatory	A19	
0003	Seminar for special assignment report	U G#	4	Mandatory	A19	
0004	Examination in cardiological diseases part 1	U G VG	2.5	Mandatory	A19	
0005	Examination in cardiological diseases part 2	U G VG	4	Mandatory	A19	

Last revised

by Dean of Department of Health Sciences 2020-02-21

Syllabus established

by Dean of Department of Health Sciences 2020-02-21