

Course syllabus for

Clinical course in orthodontics - orthodontic biomechanics and treatment techniques, 15 credits

Klinisk kurs i ortodonti - ortodontisk biomekanik och behandlingsteknik, 15 hp This course syllabus is valid from autumn 2011.

Course code 9OF007

Course name Clinical course in orthodontics - orthodontic biomechanics and

treatment techniques

Credits 15 credits

Form of Education Contract education (credits)

Main field of study Odontology

Level AV - Second cycle Grading scale Fail (U) or pass (G)

Department Department of Dental Medicine

Decided by Styrelsen för utbildning

Decision date 2011-10-18 Course syllabus valid from Autumn 2011

Specific entry requirements

Dental Degree of at least 180 credits. In addition, knowledge of English equivalent to English B is required.

Objectives

- choose and evaluate the advantages and disadvantages of various orthodontic materials - investigate and plan the force system for optimal tooth movement - integrate and assess the desired and iatrogenic effects of orthodontic force - demonstrate a deeper understanding of and be able to independently perform the treatment with fixed and removable orthodontic appliances - demonstrate a deeper understanding of and be able to independently perform treatment with extra-oral appliances - demonstrate a deeper understanding of and be able to independently install retention devices - demonstrate a deeper understanding of and be able to identify indications for skeletal anchorage system - practically perform patient treatments with application of at least one treatment technique - demonstrate a sound knowledge of other additional treatment techniques.

Content

Course code: 9OF007

Orthodontic biomechanics. Orthodontic devices (fixed, removable, functional, extra-oral, retention). MBT treatment technique. Self-ligating bracket system, Lingual technique, mini-implants. Iatrogenic effects.

Teaching methods

Work with simulators. Study of textbook chapters on biomechanics. Lectures on orthodontic treatment techniques. Clinical observation in clinics in which so-called Lingual orthodontics is used. Hands-on course of training in the application of mini-implants. Patient treatment under supervision.

Examination

Written examination of biomechanics and treatment methods and their application in the treatment. Clinical audit and reports to the supervisors of at least 30 cases of patients treated. Presentation and assessment of randomly selected cases for the external examiner.

Other directives

Language of instruction: English.

Literature and other teaching aids

McLaughlin, Richard P.; Bennett, John C.; Trevisi, Hugo J.

Systemized orthodontic treatment mechanics

Edinburgh: Mosby, 2001 - 324 s.

ISBN:0-7234-3171-X LIBRIS-ID:8302894

Library search

Mulligan, Thomas F.; Mulligan, Thomas F.

Common sense mechanics in everyday orthodontics

Phoenix, Ariz.: CSM Publishing, 1998 - xvii, 354 p.

LIBRIS-ID:8875259

Nanda, Ravindra

Biomechanics and esthetic strategies in clinical orthodontics

St. Louis, Mo.: Elsevier Saunders, cop. 2005 - xiii, 385 p.

ISBN:0-7216-0196-0 LIBRIS-ID:10043337

Library search

Ludwig, Björn

Mini-implants in orthodontics: innovative anchorage concepts

London: Quintessenz, 2008 - xi, 188 p.

ISBN:97818509717440 LIBRIS-ID:10958511

Library search

Orthodontic materials: scientific and clinical aspects

Brantley, William A.; Eliades, Theodore

Stuttgart: Thieme, 2001 - 310 s.

ISBN:3-13-125281-2 LIBRIS-ID:4669506

Library search

Course code: 9OF007