

## SYLLABUS DEL CORSO

### Valutazione Disfunzioni Sistema Movimento

1920-2-I0201D111-I0201D140M

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#### Aims

modification mechanism of the motor system components , factors of strength improvement, assess the path of least resistance and the relative stiffness, assessment of the movement impairments, and their related symptoms and contributing factors.

General principles on the functional assessment and clinical assessment.

#### Contents

##### Detailed program

- review of the pertinent muscular biology
- muscular hypertrophy
- neural and muscular factors in alignment and strength
- normal muscles
- atrophy of the muscle
- mechanism of the modification of the components
- muscular strain - length associated changes
- sarcomere engagement - adding more sarcomere in series

- active movement
- alignment correction
- assessment of muscular performance
- stretching programs
- muscular adaptations
- dissociated changes in synergic muscles
- alignment of the lower limbs in the sitting posture
- dissociated changes in muscle length
- muscular stiffness
- relative stiffness/flexibility
- path of least resistance

## **Prerequisites**

## **Teaching form**

Lectures and lab

## **Textbook and teaching resource**

- Valutazione e trattamento delle Sindromi da Disfunzioni del Movimento Shirley Sahrmann ISBN 880207080-6 Pagine 480 Copertina Cartonata Editore: UTET Anno di edizione: 2005 Skeletal Muscle Structure, Function, and Plasticity Richard L Lieber Lippincott Williams & Wilkins (Sep 2009) Edition: Third ISBN-10: 0-7817-7593-0 ISBN-13: 978-0-7817-7593-9 Pub Date: September 2009 Pages: 336

## **Semester**

2nd semester

## **Assessment method**

Described in the subject's syllabus

## **Office hours**

By appointment

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