



**COURSE DEFINITION**  
**Biomechanics of the pelvis, spine and thorax**

**Year: 1**  
**code : A1 - 03**

**Head of department :**  
**D.Nari D.O.**  
**Teacher(s) :**  
D.Nari D.O.

**ECTS : 7**

**Hours credit: 70**

**Distribution**  
**number CM : 70**  
**number TP :**  
**number TD :**

**Type :**  
CM

**Evaluation:**  
MCQ  
SEMESTER

**Language : French**  
**Documentation: YES**

**Courses objectives :**

Three-dimensional visualization of the biomechanics of different bone components followed by a practical application (visual observation, palpation and mobility tests)

**Bibliography :**

Rouvière H. Anatomie humaine. Masson edition, Netter, Brizon et Castaing, Kapendji, Bouchet et Cuilleret. A.I. Kapendji (Ed. Maloine).

**Content :**

Introduction to biomechanics

Visualization of the three-dimensional space

Biomechanics of the ilio-sacral articulation

Biomechanics of the symphyseal articulation

Biomechanics of the sacrum

Biomechanics of the coccyx

Biomechanics of the lumbosacral joint

Physiology of the pelvis when walking

Biomechanics of the lumbar spine

Biomechanics dorsal spine

Biomechanics of the dorso-lombar joint

Biomechanics of the costal cage

Biomechanics of the thorax

Biomechanics of the lower cervical spine

Biomechanics of the cervicodorsal joint

Biomechanics of the upper cervical spine

Biomechanics of ribs K1-K2, K3 to K10 and K11-K12-sternum