

UNIVERSITY OF BELGRADE  
FACULTY OF MEDICINE  
PhD STUDIES

NAME OF THE MODULE: SKELETAL BIOLOGY

CONTENT OF THE PROGRAM:

The program Skeletal biology includes the development of core knowledge and understanding of the principles of skeletal biology and the main laboratory and population-based approaches for assessing alterations of skeletal biology leading to disease; development of trans-disciplinary skills to address complex questions related to skeletal mechanobiology; preparation of students for application of new techniques for the study of skeletal tissues; preparation of students for fieldwork in bioanthropology and forensic anthropology; obtaining the skills necessary for the critical analysis of material gathered in laboratory research and fieldwork settings; enabling students to conduct independent research and to write a dissertation at the level required for the PhD; and obtaining both practical skills and theoretical framework to pursue alternative careers in the field of biomechanics and bioanthropology, outside of the traditional academic setting. In the third semester, candidates choose one of the two main directions: 1) Mechanobiology and orthopedic aspects of bone fragility, and 2) Bioanthropology and forensic anthropology.

ADMISSION REQUIREMENTS:

individuals who graduated from integrated academic studies of medicine lasting for 6 years (360 ECTS), OR

individuals who graduated from academic studies of at least 300 ECTS

MEMBERS OF THE ADVISORY BOARD:

Prof. dr Marija Đurić

Prof. dr Aleksandar Lešić

Prof. dr Slobodan Nikolić

Prof. dr Jelena Sopta

Prof. dr Nenad Filipović

Prof. dr Danijela Đonić

Prof. dr Petar Milovanović

**OBLIGATORY COURSES:**

**Functional osteology and aging of the skeletal system (BS\_m01)**

**Bone Pathology and Bone Imaging Techniques (BS\_m02)**

**ELECTIVE COURSES:**

**Orthopedic aspects of bone fragility and degenerative diseases of the skeleton (BS\_e01)**

**Forensic aspects of skeletal trauma (BS\_e02)**

**Bioanthropology and Forensic Anthropology (BS\_e03)**

**Advanced technologies in bone fragility evaluation and treatment of bone defects (BS\_e04)**



