

UNIVERSITY OF BELGRADE  
FACULTY OF MEDICINE  
PhD STUDIES

NAME OF THE MODULE: Reconstructive Surgery

CONTENT OF THE PROGRAM:

Within this study program, students acquire theoretical and practical knowledge related to modern principles of reconstructive procedures used in all types of surgery. Participants acquire basic knowledge related to scientific research in the field of: methodology of scientific research work, statistics in biomedical sciences, essay writing and presentation, publishing and research ethics. In addition, theoretical and practical overviews of anatomical structures and regions relevant to surgical interventions and reconstructive procedures in all areas of surgery are studied. Special attention is paid to the study of the application of non-biological (synthetic) materials in the reconstruction of organs and organ systems in modern surgery. As each of the areas has its own specifics, the types of synthetic materials, their use, as well as complications when applied in different type of surgery are studied separately. All this knowledge is acquired in the first year of the study program and belongs to the obligatory subjects.

As this is a very wide field, the study program also contains 8 elective courses. In the elective subjects, related to the areas of digestive surgery, cardio and vascular surgery, orthopedic surgery, skin, muscle tissue and breast surgery, urology, neurosurgery and pediatric surgery, different types of reconstructive techniques and procedures are studied. Students acquire knowledge related to the latest technology in surgery and ways of its application, within this study program.

ADMISSION REQUIREMENTS:

- the average grade from all previous levels of study to be at least 8.00
- knowledge of English to the level of communication and understanding of scientific literature
- appropriate computer skills
- desirable recommendations related to scientific research
- persons with completed integrated academic studies in medical sciences lasting 6 years (360 ECTS), started or completed medical specialization in the relevant surgical field and who have shown a interest in scientific research in the relevant field as evidenced by publications in which the candidate is the author (one original paper in a journal cited in the Medline database in which the candidate is the author)

MEMBERS OF THE ADVISORY BOARD:

Prof.dr Dejan Radenković, Prof.dr Goran Tulić, Prof.dr Miodrag Aćimović, and Prof.dr Lukas Rasulić

#### OBLIGATORY COURSES:

1. Methodology of scientific research
2. Statistics for researchers in the field of biomedical sciences (basic course)
3. Research ethics
4. Essays and presentations of individual work of candidates, publication
5. Rotations between research units
6. Functional morphology of human systems and organs
7. Non-biological materials in the reconstruction of organs and organ systems
8. Statistics for researchers in the field of biomedical sciences (senior course)

#### ELECTIVE COURSES:

1. Biological and clinical aspects of surgical reconstruction of the digestive tract
2. Biological and clinical aspects of surgical reconstruction of the cardiac system
3. Biological and clinical aspects of surgical reconstruction of the vascular system
4. Biological and clinical aspects of surgical reconstruction of the bone and joint system
5. Biological and clinical aspects of surgical reconstruction of the urogenital system
6. Biological and clinical aspects of surgical reconstruction of skin, muscle tissue and breast
7. Biological and clinical aspects of surgical reconstruction of nervous tissue
8. Biological and clinical aspects of surgical reconstruction in pediatric surgery