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| 1. | Name of subject | **Orthopedics and Traumatology** |
| 2. | Head of the Department | **Prof. dr hab. n. med. Jan Skowroński** |
| 3. | Didactic classes at the unita | ECTSb |
|  | Lectures | Seminars | Labs | Elective courses |
|  | 20 |  | 40 |  |
| 4. | The prerequisite requirements for the implementation of the didactic classes at the unit and a way of final evaluation.Competence of anatomy of musculo-skeletatal system.Physician examination skills.Knowledge will be tested during labs |
| 5. | Topics of the didactic classes at the unit |
|  | **Lectures**1. General Principles of treatment in injuries of locomotoric system – contusion, contorsion, dislocation, fracture ( procedures, priorities, surgical solutions, scope of duties and competence of the first aid physician, indispensable information for General Practitioner and first aid physician).
2. Pathophysiology of healing in musculoskeletal system (tendon, bone, nervous trunk, blood vessel) considering immobilization, time and conditions for regeneration (nerves). Possibilities of therapeutic rehabilitation – clinical cases. Causes of failures and complications.
3. Deformations and congenital disorders of lower limb – etiology, nomenclature, diagnosis, pathomechanics, possibilities of correction or reconstruction, rehabilitation issues.
4. Deformations and congenital disorders of lower limb – etiology, nomenclature, diagnosis, pathomechanics, possibilities of correction or reconstruction, rehabilitation issues
5. Spine and thorax deformations – diagnosis, clinical and ambulatory documentation, limits of conservative therapy and prophylaxis, indications to surgical treatment, rehabilitation issues.
6. Injures of the upper limb – shoulder and elbow (fracture, dislocation, “contorsion”, - interpretation problems, diagnosis and treatment, X-ray negative injuries).
7. Injuries of the upper limb – forearm and hand. Hand surgery primary intervention issues and possibilities of reconstruction. Microsurgery – distinction of surgical techniques, possibilities and outcomes of treatment.
8. Injuries of the lower limb – traumas and dislocations of the hip, fractures of the tibial and the femoral shaft, limits of conservatice therapy, intraarticular knee fracture, X- ray negative injuries.
9. Injures of the lower limb – arthroscopy on the example of the knee, fractures of the ankle, knee and ankle instability.
10. Traumatic injuries of the spine )with and without spinal cord lesions). First aid, primary intervention, transport. Diagnosis and clinical picture. Limits and possibilities of the surgical treatment. Therapeutic, social and occupational rehabilitation.
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|  | Seminars |
|  | **Labs**1. Information about classes organization. Orthopedic nomenclature. Functional examination of musculoskeletal system. Primary intervention in locomotoric injuries.
2. Injuries of the shoulder (fractures, dislocations, X-ray negative injuries) – diagnosis, primary intervention, aspects of treatment.
3. Injuries of the elbow. Fractures of the shaft and distal epiphysis of the humeral bone. Diagnosis, primary intervention, aspects of treatment, complications.
4. Injuries of the forearm – types of fractures, multitissue injuries.
5. Recent multitissue hand injuries – diagnosis, therapeutic procedures.
6. Fractures of the pelvis. Injuries of the hip area (dislocation, fractures of the proximal section of the femoral bone) – diagnosis, aspects of treatment.
7. Injuries of the knee – fractures of the epiphyses of the femoral and the tibial bone, fractures of the patella, ligamentous injuries of the knee.
8. Fractures of the tibial shaft. Injuries of the ankle and foot.
9. Injuries of the spine – fractures, dislocations. Procedure in the spinal cord injuries.
10. Soft tissue injuries (muscle and tendon lesions, enthesopathy, fascial syndromes). Orthopedic oncology. Credit.
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|  | **Elective courses**1. Modern technology in orthopedic surgery and traumatology.
2. Treatment of the knee arthrosis.
3. Neuropathy and injuries of the distal nerves.
4. Tumors of the musculoskeletal system.
5. Locomotoric disorders and injuries in sport.
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| 6. | A form of classes crediting1. A way of evaluation individual labs.
2. A way of evaluation seminars.
3. A way and form of final evaluation the whole course at the unit.
4. A form of exemption from an exam.

**Ad. 1. Verification of the knowledge presented during labs.****Ad. 2. Attendance at labs and lectures, partial knowledge verifying during labs. Final exam.****Ad. 3. No exemption from final exam.** |
| 7. | A list of recommended books1. The obligatory books:

**Louis Solomon, David J. Warwick: Apley’s Concise Orthopaedics and Trauma.** (Hodder Arnold Publication – 2005)1. The optional books:

**W. Greene: Netter’s Orthopaedics. (ICON Learning Systems IIC – 2006)** |