

## Information sheet for the course Orthopedics and Prosthetics

<b>University:</b> <i>Alexander Dubček University of Trenčín</i>	
<b>Faculty:</b> <i>Faculty of Health Care</i>	
<b>Course unit code:</b> <i>OrtPro/d</i>	<b>Course unit title:</b> <i>Orthopedics and Prosthetics</i>
<b>Type of course unit:</b> <i>compulsory</i>	
<b>Planned types, learning activities and teaching methods:</b> <i>Lecture: 1 hour weekly/13hours per semester of study; full-time</i>	
<b>Number of credits:</b> <i>3</i>	
<b>Recommended semester/trimester of study:</b> <i>5<sup>th</sup> semester in the 3<sup>rd</sup> year (full-time)</i>	
<b>Degree of study:</b> <i>I (bachelor)</i>	
<b>Course prerequisites:</b> <i>none</i>	
<b>Assessment methods:</b> <i>Written or oral examination (50 points)</i> <i>- to receive the grade A, a minimum of 45 points is required, to receive the grade B, a minimum of 40 points is required, to receive the grade C, a minimum of 35 points is required, to receive the grade D, a minimum of 30 points is required, and to receive the grade E, a minimum of 25 points is required.</i>	
<b>Learning outcomes of the course unit:</b> <i>To learn about basic orthopedic diseases and injuries, about their pathological-anatomical and physiological background and clinical symptoms in relation to rehabilitation. To teach students how to select and utilize the appropriate rehabilitation methods and procedures for individual orthopedic diseases and injuries</i>	
<b>Course contents:</b> <ol style="list-style-type: none"> <li><i>1. Congenital defects and developmental disorders of the skeletal system and ligaments. Acquired developmental disorders of the skeletal system and ligaments (growth plate, epiphyseolysis, aseptic osteochondronecrosis)</i></li> <li><i>2. Neurological-orthopedic diseases: cerebral palsy, syringomyelia, tabes dorsalis</i></li> <li><i>3. Neurological-orthopedic diseases: congenital transverse deficiency, acquired transverse myelopathy, poliomyelitis, carpal tunnel syndrome</i></li> <li><i>4. Bone and joint infections: acute hematogenic osteomyelitis, septic arthritis;</i></li> <li><i>5. Bone and joint infections: chronic osteomyelitis, discitis, purulent arthritis, Lyme disease.</i></li> <li><i>6. Tumors of the locomotor system.</i></li> <li><i>7. Diseases of the spine and thorax– segmentation anomalies, Spina bifida, Spondylolysis; Spondylolisthesis, Diastematomyelia, Scoliosis, Kyphosis, Scheuermann disease.</i></li> <li><i>8. Degenerative spine diseases.</i></li> <li><i>9. Injuries to the spine and thorax. Upper limb injuries. Lower limb injuries.</i></li> <li><i>10. Overview and classification of prosthetic aids. Indications for prosthetic aids. Patient testing for orthopedic and prosthetic aids.</i></li> <li><i>11. Patient hygiene and prosthetic aids.</i></li> <li><i>12. Torso orthoses, general characteristics, classification. Individual types of orthoses and aids.</i></li> <li><i>13. Calceotics: orthopedic footwear, orthopedic inserts. Prostheses – facial, calf and breast, modern trends. Adjuvatics- locomotor aids. Aids for self-service and hygiene,</i></li> </ol>	

*aids for use in social and work settings.*

**Recommended literature:**

1. VOJTAŠŠÁK, J. *Ortopédia. Bratislava: Slovak Academic Press, 1998. 749 s.*  
GÚTH, A. – KUBÁT, R. *Ortopédia detského veku. Praha: 1982, 315 s.*
2. HUDEC, I. *Úrazová chirurgia. Martin: Osveta, 1986. 869 s.*
3. DUNGL, P. *A KOL. Ortopedie. Praha: Grada Publishing, 2005. 1280 s. ISBN 8024705508.*
4. SOSNA, A. *A KOL. Základy ortopedie. Praha: Triton, 2001. 1 80 s. ISBN 1080-7254-202-8.*
5. BROZMANOVÁ, B. *A KOL. Ortopedická protetika. Martin: Osveta 1989.*

*Journals: Ortopedic protetika.*

**Language:** *Slovak*

**Remarks:**

**Evaluation history**

*Number of evaluated students*

A	B	C	D	E	FX

**Lectures:**

*prof. MUDr Jiří Klein, Ph.D, FETCS*

*prof. MUDr. J. Vomela, CSc. LL.M*

*MUDr. Richard Centový*

**Last modification:** *22.04.2014*

**Supervisor:** *doc. MUDr. Juraj Čelko, PhD.*