

Course description

Course abbreviation:	KFE/PROT4	Page:	1 / 3
Course name:	Prosthetics 4		
Academic Year:	2023/2024	Printed:	13.07.2025 16:43

Department/Unit /	KFE / PROT4			Academic Year	2023/2024
Title	Prosthetics 4			Type of completion	Pre-Exam Credit
Accredited/Credits	Yes, 3 Cred.			Type of completion	Combined
Number of hours	Tutorial 3 [Hours/Week]				
Occ/max	Status A	Status B	Status C	Course credit prior to	No
Summer semester	0 / -	0 / -	0 / -	Counted into average	NO
Winter semester	12 / -	0 / -	0 / -	Min. (B+C) students	10
Timetable	Yes			Repeated registration	NO
Language of instruction				Semester taught	Winter semester
Optional course	Yes			Internship duration	0
Evaluation scale	S\N				
No. of hours of on-premise					
Auto acc. of credit	Yes in the case of a previous evaluation 4 nebo nic.				
Periodicity	every year				
Specification periodicity					
Substituted course	None				
Preclusive courses	N/A				
Prerequisite courses	N/A				
Informally recommended courses	N/A				
Courses depending on this Course	N/A				

Course objectives:

The course introduces students to the furnishing of prosthetic aids in specific environments pediatric patients where we use different practices and use of other modular components respecting progressive growth.

Requirements on student

80% participation in seminars
essay on an assigned topic
final test - 75%

Content

1st Differences in the taking of specific substrates in pediatric patients
2nd Examination of the driving stereotypes through play
3rd List of parts for the construction of children's prostheses
4th Children DK Construction prosthesis after amputation
5th Children DK Construction prosthesis in congenital defect with atypical stump
6th Construction of children's prostheses UL
7th Differences in gait training
8th Modification with adjustable sizes
9th Sports activities with a tool
10th Manufacture of custom parts outside the size range
11th Hygiene in the use of prosthetic devices

Fields of study

Guarantors and lecturers

- **Guarantors:** PaedDr. Zdeněk Šolc (100%)
- **Tutorial lecturer:** Mgr. Tereza Plhánková (100%), Bc. Vladan Princ (100%), PaedDr. Zdeněk Šolc (100%)

Literature

- **Recommended:** MAY, B.J. *Amputations and prosthetics*. Philadelphia: Davis company. ISBN 0-8036-0043-7.
- **Recommended:** Feneis, Heinz; Dauber, Wolfgang. *Anatomický obrazový slovník*. Vyd. 2. české, přeprac. a rozš., v nakl. Grada vyd. 1. čes. Praha : Grada Publishing, 1996. ISBN 80-7169-197-6.
- **Recommended:** BRINCKMANN, E. *Orthopadische biomechanik*. Thieme, 2000.
- **Recommended:** *Ortopedická protetika*. FOPTO.
- **Recommended:** HADRABA, Ivan. *Protetické pomůcky u některých vad a defektů v dětském věku*. Medica revue, 1996.
- **Recommended:** KAPHINGST, W., HEIM, S. *Protetika*. Praha: FOPTO, 2003.
- **Recommended:** MAŘÍK I. *Systémové, končetinové a kombinované vady skeletu: diagnostické a biomechanické aspekty - 1. část. Monografie. In. Pohybové ústrojí*. 2000.
- **Recommended:** Sosna, Antonín. *Základy ortopedie*. Vyd. 1. V Praze : Triton, 2001. ISBN 80-7254-202-8.
- **Recommended:** Votava, J. a kol. *Základy rehabilitace - skripta po posl. 1. LF UK*. Praha: Karolinum, 1997.

Time requirements

All forms of study

Activities	Time requirements for activity [h]
Preparation for comprehensive test (10-40)	30
Undergraduate study programme term essay (20-40)	20
Contact hours	22
Total:	72

assessment methods

Knowledge - knowledge achieved by taking this course are verified by the following means:

- Test
- Seminar work

Skills - skills achieved by taking this course are verified by the following means:

- Skills demonstration during practicum

prerequisite

Knowledge - students are expected to possess the following knowledge before the course commences to finish it successfully:

- describe the construction of prosthetic devices on an upper limbs

Skills - students are expected to possess the following skills before the course commences to finish it successfully:

- remove specific assets
- create prosthesis for an upper limb
- apply prosthesis for an upper limb
- educate the client in use and maintenance under the supervision

Competences - students are expected to possess the following competences before the course commences to finish it successfully:

N/A

N/A

N/A

N/A

teaching methods**Knowledge - the following training methods are used to achieve the required knowledge:**

Skills demonstration

Skills - the following training methods are used to achieve the required skills:

Practicum

learning outcomes**Knowledge - knowledge resulting from the course:**

list the differences in the provision of prosthetic aids between an adult client and a child

describe typical childhood defects

Skills - skills resulting from the course:

remove specific backgrounds from a child

create a suitable prosthetic aid for a child

apply a suitable prosthetic aid for a child

educate the child and his / her family members under the leadership in using for increasing self-sufficiency

Competences - competences resulting from the course:

N/A

N/A

N/A

N/A

Course is included in study programmes:

Study Programme	Type of	Form of	Branch	Stage	St. plan v.	Year	Block	Status	R.year	R.
Orthotics - Prosthetics	Bachelor	Full-time	Orthotics-Prosthetics	1	2019	2023	Povinné předměty	A	3	ZS