



## Pomorski Uniwersytet Medyczny w Szczecinie

### CLASS SYLLABUS General Information

Module title: REHABILITATION	
Module type	OBLIGATORY
Faculty PMU	INTER-FACULTY CENTER FOR EDUCATION IN ENGLISH FACULTY OF DENTISTRY
Major	DENTISTRY
Level of study	FULL TIME STUDIES LONG CYCLE MASTER'S DEGREE
Mode of study	Full-time/part-time
Year of studies, semester	IV/8
ECTS credits (incl. semester breakdown)	1,5
Type/s of training	Lectures – 4 h./seminars – 28 h.
Form of assessment*	<input checked="" type="checkbox"/> graded assessment <input checked="" type="checkbox"/> descriptive <input checked="" type="checkbox"/> test <input type="checkbox"/> practical <input type="checkbox"/> oral <input type="checkbox"/> non-graded assessment <input type="checkbox"/> final examination: <input type="checkbox"/> descriptive <input type="checkbox"/> test <input type="checkbox"/> practical <input type="checkbox"/> oral
Head of the Department/ Clinic, Unit	Dr hab. n. med. Danuta Lietz – Kijak, prof. PUM
Tutor responsible for the module	Dr n. zdr. Marta Grzegocka, <a href="mailto:marta.grzegocka@pum.edu.pl">marta.grzegocka@pum.edu.pl</a> ; 91 466 16 37
Department	Department of Propedeutics, Physical Diagnostics and Dental Physiotherapy; Powstańców Wielkopolskich 72 Av. ; 70 – 111 Szczecin; 91 466 16 73; <a href="mailto:zpropst@pum.edu.pl">zpropst@pum.edu.pl</a>
Department's/ Clinic's/ Unit's website	
	<a href="https://www.pum.edu.pl/studenci/informacje_z_jednostek/ws/zaklad_propedeutyki_fizykodiagnostyki_i_fizjoterapii_stomatologicznej/">https://www.pum.edu.pl/studenci/informacje_z_jednostek/ws/zaklad_propedeutyki_fizykodiagnostyki_i_fizjoterapii_stomatologicznej/</a>
Language	polski/angielski

\* replace  into  where applicable

**Detailed information**

<b>Module objectives</b>		Gaining knowledge of physiotherapy methods for the masticatory system
Prerequisite /essential requirements	Knowledge	<i>Knowledge of the structures of the human body: cells, tissues, organs, and systems, with particular emphasis on the stomatognathic system Knowledge of the causes and principles of treatment for complications of stomatognathic system diseases</i>
	Skills	<i>Ability to manage general and local complications during and after dental procedures</i>
	Competences	<i>Self-education skills. Ability to work in a team and communicate effectively</i>

<b>Description of the learning outcomes for the subject /module</b>			
<b>No. of learning outcome</b>	<b>Student, who has passed the (subject) knows /is able to /can:</b>	<b>SYMBOL (referring the standards)</b>	<b>Method of verification of learning outcomes*</b>
W01	knows and understands the methods applied in medical rehabilitation, its goals and planning methodology	E.W19.	K,O,W
W02	knows and understands symptoms, course and treatment methods of specified diseases of oral cavity, head and neck with regard to age groups	F.W4.	K,O,W
W03	knows and understands causes of complications of stomatognathic system diseases and the rules of their management	F.W12.	K,O,W
W04	knows and understands rehabilitation methods for stomatognathic system	F.W14.	K,O,W
W04	knows and understands principles of management of masticatory system tissues diseases, teeth and jaw bone trauma	F.W22.	K,O,W
U01	is able to manage general and local complications during and after dental procedures	F.U9.	K,O,W
K01	is ready to establish and maintain deep and respectful contact with the patient as well as to show understanding for ideological and cultural differences	K.1.	K,O,W
K02	is ready to be guided by the patient wellbeing	K.2.	K,O,W
K03	is ready to respect physician-patient privilege and patient's rights	K.3.	K,O,W

K04	is ready to take activities towards patient on the basis of ethical principles with awareness of social conditions and disease restrictions	K.4.	K,O,W
K05	is ready to notice and recognize own limitations, make self-assessment of educational deficits and needs	K.5.	K,O,W
K06	is ready to use reliable sources of information	K.7.	K,O,W
K07	is ready to formulate opinions on various aspects of professional activity	K.10.	K,O,W

Table presenting LEARNING OUTCOMES in relation to the form of classes								
No. of learning outcome	Learning outcomes	Type of training						
		Lecture	Seminar	Practical	Clinical classes	Simulations	E-learning	Other...
W01	E.W19.	X	X				X	
W02	F.W4.	X	X				X	
W03	F.W12.	X	X				X	
W04	F.W14.	X	X				X	
W05	F.W22.	X	X				X	
U01	F.U9.	X	X				X	
K01	K.1.	X	X				X	
K02	K.2.	X	X					
K03	K.3.	X	X					
K04	K.4.	X	X					
K05	K.5.	X	X					
K06	K.7.	X	X				X	
K07	K.10.	X	X					

Table presenting TEACHING PROGRAMME			
No. of a teaching programme	Teaching programme	No. of hours	References to learning outcomes
<b>Summer semester</b>			
<b>LECTURES</b>			
TK01	Application of pedobarography, podoscanning and podoscope in the assessment of tensegrity relationships between the temporomandibular joint and the foot architecture.	2	E.W19.; F.W4.; F.W12.; F.W14.; F.W22
<b>SEMINARS</b>			
TK01	Introduction to physical diagnosis, physical therapy, and physiotherapy. Concepts	2	E.W19.; F.W4.; F.W12.; F.W14.; F.W22; F.U9.;

	related to health, disability, and handicap. Rehabilitation planning. Contraindications to the use of physical therapy.		K.1.; K.2.; K.3.; K.4.; K.5.; K.7.; K.10
TK02	Air abrasion – a kinetic preventive and preparatory method: principle of operation, effects on tissues and materials, indications and contraindications, advantages and disadvantages, applications in conservative dentistry, pediatric dentistry, prosthetics, orthodontics, and periodontology. Air and air-water sandblasters.	2	E.W19.; F.W4.; F.W12.; F.W14.; F.W22; F.U9.; K.1.; K.2.; K.3.; K.4.; K.5.; K.7.; K.10
TK03	Diagnosis of dental caries (DiagnoCAM, DiagnoDENT, DiagnoDENT pen). Laser and diode diagnostics. Classification and methods of use in dentistry. Device selection and operation.	2	E.W19.; F.W4.; F.W12.; F.W14.; F.W22; F.U9.; K.1.; K.2.; K.3.; K.4.; K.5.; K.7.; K.10
TK04	Electrodiagnostics and electrotherapy in dentistry. Oral electropotential testing. Electrical testing of superficial sensation of the facial skin – diagnostics of sensation in the skin, lips, tongue, and mucous membranes. Cautery, electrocoagulation, electrotomy, electrofulguration	2	E.W19.; F.W4.; F.W12.; F.W14.; F.W22; F.U9.; K.1.; K.2.; K.3.; K.4.; K.5.; K.7.; K.10
TK05	Ultrasound and its possible applications in dentistry/Appliance selection and operation.	2	E.W19.; F.W4.; F.W12.; F.W14.; F.W22; F.U9.; K.1.; K.2.; K.3.; K.4.; K.5.; K.7.; K.10
TK06	Ozone therapy in dentistry and medicine. Oxygen therapy. Appliance selection and operation. Prevention, treatment, and interaction with pharmacological treatment. Specific applications in selected dental specialties.	2	E.W19.; F.W4.; F.W12.; F.W14.; F.W22; F.U9.; K.1.; K.2.; K.3.; K.4.; K.5.; K.7.; K.10
TK07	Physiotherapy with low-frequency electromagnetic fields – magnetostimulation. The difference between magnetotherapy and magnetostimulation. Preventive and therapeutic procedures. The effectiveness of DC and AC magnetostimulation treatments. The Viofor JPS system. Appliance selection and operation.	2	E.W19.; F.W4.; F.W12.; F.W14.; F.W22; F.U9.; K.1.; K.2.; K.3.; K.4.; K.5.; K.7.; K.10
TK08	Diagnostics and light therapy used in dentistry. Pilerotherapy, LED therapy, magnetolaser therapy, and magnetoledotherapy as a form of combined treatment, the synergism of physical factors. Appliance Selection and Operation	2	E.W19.; F.W4.; F.W12.; F.W14.; F.W22; F.U9.; K.1.; K.2.; K.3.; K.4.; K.5.; K.7.; K.10
TK09	Fluorescent and photodynamic blue light diagnostics of inflammatory and pre-	2	E.W19.; F.W4.; F.W12.; F.W14.; F.W22; F.U9.;

	cancerous conditions of the oral mucosa. Appliance selection and operation.		K.1.; K.2.; K.3.; K.4.; K.5.; K.7.; K.10
TK10	Laser therapy in dentistry. The synergy of electromagnetic fields and laser light used in stomatognathic complications. Appliance selection and operation.	2	E.W19.; F.W4.; F.W12.; F.W14.; F.W22; F.U9.; K.1.; K.2.; K.3.; K.4.; K.5.; K.7.; K.10
TK11	CAD-CAM, intraoral and extraoral scanning, 3D printing in dentistry.	2	E.W19.; F.W4.; F.W12.; F.W14.; F.W22; F.U9.; K.1.; K.2.; K.3.; K.4.; K.5.; K.7.; K.10
TK12	Cryotherapy in dentistry. Thermodiagnosics, thermography, and thermometry. Appliance selection and operation. Kinesiotyping or dynamic taping as evidence of the use of physiotherapy in dentistry.	2	E.W19.; F.W4.; F.W12.; F.W14.; F.W22; F.U9.; K.1.; K.2.; K.3.; K.4.; K.5.; K.7.; K.10
TK13	Physiotherapy for disorders of the mandibular joint. Stomatognathic rehabilitation in the course of functional disorders of the masticatory system.	2	E.W19.; F.W4.; F.W12.; F.W14.; F.W22; F.U9.; K.1.; K.2.; K.3.; K.4.; K.5.; K.7.; K.10
TK14	Clinical manifestations of dental complications and their possible elimination with physical methods. The ability to select a method and assess its effectiveness in the rehabilitation process.	2	E.W19.; F.W4.; F.W12.; F.W14.; F.W22; F.U9.; K.1.; K.2.; K.3.; K.4.; K.5.; K.7.; K.10
<b>E-learning</b>			
TK01	Tanegrity and the interdependence of postural defects and functional disorders of the masticatory system	2	E.W19.; F.W4.; F.W12.; F.W14.; F.W22
<b>Booklist:</b>			
<b>Obligatory literature:</b>			
1. Jo Nijs and Kelly Ickmans.: <i>Rehabilitation for Persistent Pain across the Lifespan</i> . Journal of Clinical Medicine. MDPI. 2020			
2. Hideki Nakano <i>Physical Therapy: Towards Evidence-Based Practice</i> , IntechOpen. London. 2024			
3. Agostino Guida : <i>Stomatognathic Diseases. State of the Art and Future Perspectives</i> . MDPI 2024			
4. Luis Eduardo Almeida: <i>Advances in the Diagnosis and Management of Temporomandibular Joint Diseases 2.0</i> . MDPI 2024			
<b>Supplementary literature:</b>			
1. Alexandre Mersel: <i>Oral Rehabilitation for Compromised and Elderly Patients</i> . Springer 2019			
2. Research articles by the unit's employees related to rehabilitation in dentistry			
3. Script from the lecturer			
<b>All Literature are in Department (online versions) and will be available for students before classes start</b>			

<b>Student's workload</b>	
Form of student's activity (in-class participation; activeness, produce a report, etc.)	Student's workload [h]
	Tutor
Contact hours with the tutor	<b>32</b>
Time spent on preparation to seminars/ practical classes	7
Time spent on reading recommended literature	7
Time spent on writing report/making project	4
Time spent on preparing to colloquium/ entry test	7
Time spent on preparing to exam	0
Other .....	0
Student's workload in total	<b>57</b>
<b>ECTS credits for the subject (in total)</b>	<b>1,5</b>
<b>Remarks</b>	

\* Selected examples of methods of assessment:

EP – written examination

EU – oral examination

ET – test examination

EPR – practical examination

K – colloquium

R – report

S – practical skills assessment

RZC – practical classes report, incl. discussion on results

O – student's active participation and attitude assessment

SL – lab report

SP – case study

PS - assessment of student's ability to work independently

W – entry test

PM – multimedia presentation

other...