



# Pomorski Uniwersytet Medyczny w Szczecinie

## SYLLABUS of the MODULE (SUBJECT) General information

Module title: REHABILITATION	
Module type	Obligatory/Facultative
Faculty PMU	Faculty of Medicine and Dentistry
Major	Medical and Dentistry
Specialty	-
Level of study	long-cycle
Mode of study	full-time/part-time
Year of studies, semester	IV / sem. 8
ECTS credits (incl. semester breakdown)	1
Type/s of training (Number of hours)	Lectures – (4 h) seminars – (28 h) .
Form of assessment <sup>1</sup>	<input checked="" type="checkbox"/> graded assessment: <ul style="list-style-type: none"> <li><input type="checkbox"/> descriptive</li> <li><input checked="" type="checkbox"/> test</li> <li><input checked="" type="checkbox"/> practical</li> <li><input type="checkbox"/> oral</li> </ul> <input type="checkbox"/> non-graded assessment <ul style="list-style-type: none"> <li><input type="checkbox"/> final examination <ul style="list-style-type: none"> <li><input type="checkbox"/> descriptive</li> <li><input type="checkbox"/> test</li> <li><input type="checkbox"/> practical</li> <li><input type="checkbox"/> oral</li> </ul> </li> </ul>
Head of the Department /Clinic, Unit	Dr hab. n. med. Danuta Lietz - Kijak
Tutor responsible for the module	Dr hab. n. med. Danuta Lietz - Kijak
Name and contact data of the unit	Department of Propedeutics, Physiodiagnostics and Dental Physiotherapy, al. Powstańców Wielkopolskich 72 ; 70 – 111 Szczecin; 91 466 16 73
Department's/ Clinic's/ Unit's website	<a href="https://www.pum.edu.pl/wydzialy/wydzial-medycyny-i-stomatologii/zaklad-propedeutyki-i-fizykodiagnostyki-stomatologicznej">https://www.pum.edu.pl/wydzialy/wydzial-medycyny-i-stomatologii/zaklad-propedeutyki-i-fizykodiagnostyki-stomatologicznej</a>
Language	Polish/English

### Detailed information

<b>Module objectives</b>		<b>Teaching objectives of the module is:</b> Gaining knowledge of physiotherapy methods for the musculoskeletal system of the masticatory organ
<b>Prerequisite /essential requirements</b>	<b>Knowledge</b>	1. Knowledge of the structures of the human organism: cells, tissues, organs and systems with particular emphasis on the stomatognathic system 2. Knowledge of the causes and principles of managing complications of diseases of the stomatognathic system
	<b>Skills</b>	Ability to deal with general and local complications during and after dental procedures
	<b>Competences</b>	Self-education habit Teamwork capability, communication skills

<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 methods applied to medical rehabilitation and planning thereof methodology	K_E.W19	K, O, W, PM
W02	knows symptoms, course and procedures for certain diseases of oral cavity , head and neck with regard to age groups	K_F.W05	K, O, W, PM
W03	knows causes and procedures for management with complications of stomatognathic system diseases	K_F.W14	K, O, W, PM
U01	knows procedures applicable to cases of general and local complications during and after dental treatment	K_F.U11	K, O, W, PM
U01	shows habit of self-education and lifelong education	K_K01	K, O, W, PM
U02	shows respect to patient, social groups and cares for their goodwill and security	K_K05	K, O, W, PM
U03	can make opinions on different aspects of professional activities	K_K10	K, O, W, PM

Table presenting LEARNING OUTCOMES in relation to the form of classes							
No. of learning outcome	Learning outcomes	Type of training					
		Lecture	Seminar	Practical classes	Clinical classes	Simulations	E-learning
W01	knows methods applied to medical rehabilitation and planning thereof methodology	X	X				
W02	knows symptoms, course and procedures for certain diseases of oral cavity , head and neck with regard to age groups	X	X				
W03	knows causes and procedures for management with complications of stomatognathic system diseases	X	X				
U01	knows procedures applicable to cases of general and local complications during and after dental treatment	X	X				
U01	shows habit of self-education and lifelong education	X	X				
U02	shows respect to patient, social groups and cares for their goodwill and security	X	X				
U03	can make opinions on different aspects of professional activities	X	X				

Table presenting TEACHING PROGRAMME			
No. of a teaching programme	Teaching programme	Number of hours	References to learning outcomes
<b>Summer semester</b>			
<b>Lectures</b>			
TK01	Introduction to rehabilitation, disability, complications	1	K_E.W19; K_F.W05; K_F.W14; K_F.U11; K_K01; K_K05; K_K10
TK02	Basics of using physical therapy in dental complications.	1	K_E.W19; K_F.W05; K_F.W14; K_F.U11; K_K01; K_K05; K_K10
TK03	Introduction to the issues of tensegrity of the masticatory motor system.	1	K_E.W19; K_F.W05; K_F.W14; K_F.U11; K_K01; K_K05; K_K10
TK04	Use of pedobarography, podoscanning and podoscope in the assessment of tensegrade relationships.	1	K_E.W19; K_F.W05; K_F.W14; K_F.U11; K_K01; K_K05; K_K10
<b>Seminars</b>			
TK01	Introduction to physiotherapy and physical diagnosis. Concepts related to health and disability. Rehabilitation planning. Contraindications to physical therapy. Complications in the course of dental treatment	2	K_E.W19; K_F.W05; K_F.W14; K_F.U11; K_K01; K_K05; K_K10
TK02	Diagnostics of dental caries (DiagnoCAM, DiagnoDENT, DiagnoDENT pen). Diagnostics laser, diode and laser therapy. Division and use in dentistry. Selection of apparatus and its operation.	2	K_E.W19; K_F.W05; K_F.W14; K_F.U11; K_K01; K_K05; K_K10
TK03	Electrodiagnostics and electrotherapy in dentistry. Study of electropotentials in the oral cavity. Electrical tests of superficial sensation - sensory diagnosis of the face skin,	2	K_E.W19; K_F.W05; K_F.W14; K_F.U11; K_K01; K_K05; K_K10

	lips, tongue, mucous membranes. Cauterization, electrocoagulation, electrotomy, electrofulguration. Ultrasound and possibilities of its use in dentistry. Selection of apparatus and its operation.		
TK04	Ozone therapy in dentistry and medicine. Oxygen therapy. Selection of apparatus and its operation. Prevention, treatment and interaction with pharmacological treatment. Specific application in selected dental specialties.	2	K_E.W19; K_F.W05; K_F.W14; K_F.U11; K_K01; K_K05; K_K10
TK05	Air abrasion as one of the forms of physical therapy used in dentistry. Selection of apparatus and its operation. Effectiveness of treatment. Application in children, advantages and disadvantages of this procedure. Prophylactic possibilities. Teeth sealing procedure. Difference in the effectiveness of traditional sealing and with the use of abrasion.	2	K_E.W19; K_F.W05; K_F.W14; K_F.U11; K_K01; K_K05; K_K10
TK06	Physical therapy with low frequency electromagnetic field - magnetostimulation. Difference between magnetotherapy and magnetostimulation. Prophylactic and therapeutic procedures. Effectiveness of permanent and alternating magnetostimulation treatments. Viofor JPS system. Selection of apparatus and its operation.	2	K_E.W19; K_F.W05; K_F.W14; K_F.U11; K_K01; K_K05; K_K10
TK07	Diagnostics and light therapy used in dentistry. Pilerotherapy, ledotherapy, magnetolaserotherapy, magnetoledotherapy as one of the forms of combined treatment, synergism of physical factors. Apparatus selection and operation.	2	K_E.W19; K_F.W05; K_F.W14; K_F.U11; K_K01; K_K05; K_K10
TK08	Fluorescence vs. blue light photodynamic diagnostics of inflammatory and pre- and neoplastic diseases of oral mucosa. Selection of apparatus and its operation.	2	K_E.W19; K_F.W05; K_F.W14; K_F.U11; K_K01; K_K05; K_K10
TK09	Laser therapy in dentistry . Synergy of electromagnetic field and laser light used in stomatognathic complications. Selection of apparatus and its operation.	2	K_E.W19; K_F.W05; K_F.W14; K_F.U11; K_K01; K_K05; K_K10
TK10	Kinesiotyping and functional diagnostics as evidence of physiotherapy use in dentistry. Physiotherapy in temporomandibular joint disorders, manual therapy and its role.	2	K_E.W19; K_F.W05; K_F.W14; K_F.U11; K_K01; K_K05; K_K10
TK11	Cryotherapy in dentistry. Thermodiagnosis, thermography, thermometry and thermotherapy, Apparatus selection and operation.	2	K_E.W19; K_F.W05; K_F.W14; K_F.U11; K_K01; K_K05; K_K10
TK12	Tansegration and interdependence of postural defects and functional disorders of the masticatory motor system.	2	K_E.W19; K_F.W05; K_F.W14; K_F.U11; K_K01; K_K05; K_K10
TK13	Use of pedobarography, podoscanning and podoscope in the assessment of tensegrity relationships between the temporomandibular joint and foot architecture	2	K_E.W19; K_F.W05; K_F.W14; K_F.U11; K_K01; K_K05; K_K10
TK14	Clinical manifestation of dental complications and possibilities of their elimination by physical methods. Ability to choose a method and evaluate its effectiveness in rehabilitation process.	2	
<b>Practical classes</b>			
<b>Simulation</b>			
<b>E-learning</b>			

<b>Booklist:</b>
<b>Obligatory literature:</b>
1. Mika T.: Fizykoterapia, PZWL, 2001
2. Kinalski R.: Kompendium rehabilitacji i fizjoterapii, wyd. Urban & Partner, 2002
3. Bauer A., Wiecheć M.: Przewodnik metodyczny po wybranych zabiegach fizykalnych. Markmed Rehabilitacja S.C. Wydanie III. Wrocław. 2012.
<b>Supplementary literature:</b>
1. Opalko K., Sieroń A. (red): Zmienne pola magnetyczne w stomatologii i okulistyce, wyd. Alfa Medica Press, 2009.
2. Organa J., Opalko K.: Abrazja w stomatologii. Praktyczne kompendium. Wyd. Czelej. Wyd. I. Lublin.2013.

<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	32
Time spent on preparation to seminars/ practical classes	14
Time spent on reading recommended literature	28
Time spent on writing report/making project	2
Time spent on preparing to colloquium/ entry test	10
Time spent on preparing to exam	0
Other .....	0
Student's workload in total	<b>86</b>
ECTS credits for the course (in total)	1

<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 – multimedial presentation

other...