



# Pomeranian Medical University in Szczecin

## SYLLABUS of the MODULE (SUBJECT) General Information

Module title: INTEGRATED EDUCATION	
Module type	Obligatory
Faculty PMU	Faculty of Medicine and Dentistry
Major	Dentistry
Level of study	long-cycle (S2J)
Mode of study	full-time studies
Year of studies, semester	Year 5/semester IX, X
ECTS credits (incl. semester breakdown)	7
Type/s of training	Clinical classes 90h, seminars 15h
Form of assessment*	<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 checked="" type="checkbox"/> oral</li> </ul> <input type="checkbox"/> non-graded assessment  <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>
Head of the Department/ Clinic, Unit	Prof. dr hab. Katarzyna Grocholewicz
Tutor responsible for the module	Prof. dr hab. Katarzyna Grocholewicz e-mail: <a href="mailto:katarzyna.grocholewicz@pum.edu.pl">katarzyna.grocholewicz@pum.edu.pl</a>
Department's/ Clinic's/ Unit's website	<a href="https://www.pum.edu.pl/studia_iii_stopnia/informacje_z_jedn_ostek/wmis/zaklad_stomatologii_zintegrowanej/">https://www.pum.edu.pl/studia_iii_stopnia/informacje_z_jedn_ostek/wmis/zaklad_stomatologii_zintegrowanej/</a>
Language	English

\* replace  into  where applicable

**Detailed information**

<b>Module objectives</b>		The increased of theoretical knowledge, improvement and consolidation of practical skills in prevention, diagnosis and treatment of diseases of the stomatognathic system in patients in developmental age and adults for preparation of students for independent dental practice.
Prerequisite /essential requirements	Knowledge	Knowledge, skills and competences at the level of completion of fourth year of dental study.
	Skills	
	Competences	

<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 occlusion norms and deviations in different phases of ontogenesis	F.W1	K, PS, PM
W02	knows and understands the principles of preventive and therapeutic management in the masticatory system diseases at various stages of development	F.W2	K, PS, PM
W03	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, PS, PM
W04	knows and understands principles of management in the case of pulp diseases and mineralized dental tissues as well as teeth and facial bones trauma	F.W5	K, PS, PM
W05	knows and understands principles of periapical diseases management	F.W6	K, PS, PM
W06	knows and understands pulp cavities morphology as well as rules of endodontic treatment and used instruments	F.W7	K, PS, PM
W07	knows and understands diagnostics and treatment of periodontal and oral mucosa diseases	F.W9	K, PS, PM
W08	knows and understands indications and contraindications to implant treatment	F.W10	K, PS, PM
W09	knows and understands indications and contraindications to esthetic procedures	F.W11	K, PS, PM
W10	knows and understands causes of complications of stomatognathic system diseases and the rules of their management	F.W12	K, PS, PM
W11	knows and understands rehabilitation methods for stomatognathic system	F.W14	K, PS, PM
W12	knows and understands therapeutic methods of pain control as well as anxiety and stress reduction	F.W15	K, PS, PM

W13	knows and understands rules of radiological diagnostics	F.W18	K, PS, PM
W14	knows and understands pathomechanism of oral cavity diseases' influence on general health state	F.W19	K, PS, PM
W15	knows and understands pathomechanism of systemic diseases and their therapy influence on oral cavity	F.W20	K, PS, PM
W16	knows and understands prophylaxis of oral cavity diseases	F.W21	K, PS, PM
W17	knows and understands principles of management of masticatory system tissues diseases, teeth and jaw bone trauma	F.W22	K, PS, PM
W18	knows and understands the nature of dental care for a patient with a general disease as well as the principles of cooperation with a consultant physician	F.W23	K, PS, PM
W19	knows and understands etiology of occupational diseases, inclusive ones connected with dental work	G.W13	K, PS, PM
W20	knows and understands ergonomic rules of performing dental procedures and organization of work in dental office	G.W18	K, PS, PM
W21	knows and understands rules of occupational health and safety in dentistry	G.W19	K, PS, PM
U01	is able to interview patient or his/her family	F.U1	S, O, PS, PM
U02	is able to carry out dental examination of patient	F.U2	S, O, PS, PM
U03	is able to provide patient with explanation about nature of ailment, establish treatment confirmed by informed consent of the patient as well as establish prognosis	F.U3	S, O, PS, PM
U04	is able to provide patient or his/her family with the information about unfavorable prognosis	F.U4	S, O, PS, PM
U05	is able to interpret results of auxiliary diagnostics and consultations	F.U6	S, O, PS, PM
U06	is able to determine indications and contraindications to a specified dental procedure	F.U7	S, O, PS, PM
U07	is able to treat tooth-derived and non-tooth-derived acute and chronic inflammation of soft tissue, periodontium and jaw bones	F.U8	S, O, PS, PM
U08	is able to keep current patient records, refer patient to general and specialist dental and medical examination or treatment	F.U11	S, O, PS, PM
U09	is able to formulate research problems in dentistry	F.U12	S, O, PS, PM
U10	is able to present selected medical problems in oral or written form relevantly to recipient standards	F.U13	S, O, PS, PM
U11	is able to assess risk of caries applying microbiological and salivary tests	F.U14	S, O, PS, PM
U12	is able to establish treatment for stomatognathic system tissues diseases	F.U15	S, O, PS, PM
U13	is able to use adequate anxiety and pain	F.U16	

	relieving agents during and after dental procedure		S, O, PS, PM
U14	is able to diagnoses and perform basic treatment of periodontal diseases	F.U17	S, O, PS, PM
U15	is able to diagnose, differentiate and classify malocclusion	F.U18	S, O, PS, PM
U16	is able to work according to ergonomic rules of practicing	G.U20	S, O, PS, PM
U17	is able to follow sanitary-epidemiological regulations and health and safety regulations at work	G.U21	S, O, PS, PM
U18	is able to choose a treatment that minimizes he social consequences for patient	D.U3	S, O, PS, PM
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	S, O, PS, PM
K02	is ready to be guided by the patient wellbeing	K.2	S, O, PS, PM
K03	is ready to respect physician-patient privilege and patient's rights	K.3	S, O, PS, PM
K04	is ready to take activities towards patient on the basis of ethical principles with awareness of social conditions and disease restrictions	K.4	S, O, PS, PM
K05	is ready to notice and recognize own limitations, make self-assessment of educational deficits and needs	K.5	S, O, PS, PM
K06	is ready to propagate health-promoting behavior	K.6	S, O, PS, PM
K07	is ready to implement the principles of professional fellowship and cooperation in a team of specialists, including representatives of other medical professions, also in a multicultural and multinational environment	K.9	S, O, PS, PM
K08	is ready to assume responsibility related to decisions taken as a part of professional activity, also in terms of own safety and the safety of others	K.11	S, O, PS, 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	Other...
W01	F.W1		X		X			
W02	F.W2		X		X			
W03	F.W4		X		X			
W04	F.W5				X			
W05	F.W6				X			
W06	F.W7				X			

W07	F.W9			X			
W08	F.W10			X			
W09	F.W11		X	X			
W10	F.W12			X			
W11	F.W14		X	X			
W12	F.W15			X			
W13	F.W18			X			
W14	F.W19			X			
W15	F.W20		X	X			
W16	F.W21		X	X			
W17	F.W22			X			
W18	F.W23		X	X			
W19	G.W13		X	X			
W20	G.W18		X	X			
W21	G.W19		X	X			
U01	F.U1		X	X			
U02	F.U2		X	X			
U03	F.U3		X	X			
U04	F.U4		X	X			
U05	F.U6		X	X			
U06	F.U7		X	X			
U07	F.U8			X			
U08	F.U11		X	X			
U09	F.U12			X			
U10	F.U13		X	X			
U11	F.U14			X			
U12	F.U15		X	X			
U13	F.U16			X			
U14	F.U17			X			
U15	F.U18		X	X			
U16	G.U20		X	X			
U17	G.U21		X	X			
U18	D.U3		X	X			
K01	K.1			X			
K02	K.2			X			
K03	K.3			X			
K04	K.4			X			
K05	K.5			X			
K06	K.6			X			
K07	K.9			X			
K08	K.11			X			

Table presenting TEACHING PROGRAMME

No. of a teaching programme	Teaching programme	No. of hours	References to learning outcomes
<b>Winter semester</b>			
<b>Seminars</b>			
TK01	Examination of the patient, preventive and therapeutic procedures in diseases of the masticatory system in various stages of development, keeping medical records	2	W01, W02, W03, W07, W09, W13, W17, W16, U01,

			U02, U05, U06, U08, U10, U12
TK02	Treatment of a patient-carrier of infectious diseases, management after exposure to potentially infectious biological material	1	W02, W15, W18, W21, U04, U05, U18, U17
TK03	Ergonomics in dentistry, occupational diseases of a dentist, health and safety rules	3	W19, W20, W21, U16, U17
TK04	Importance and norms of correct occlusion	3	W01, W02, U02, U03, U05, U12, U15
TK05	Aesthetics in dentistry	6	W02, W09, W11, U01, U02, U03, U06, U12
<b>Clinical classes</b>			
TK 01	Examination of the patient and treatment planning.	4	W01, W02, W03, W09, W13, W16, U01, U02, U03, U04, U05, U06, U11, U12, U13, U18, U20, U21, K01, K02, K03, K04, K05, K06, K07
TK 02	Prophylaxis of dental caries and periodontal diseases.	2	W02, W09, U01, U02, U05, U10, U11, U12, U14, K02, K03, K06
TK 03	Modern methods and materials used in treatment of mineralized tissue of the teeth.	6	W04, W11, U02, U06, U11, U12, K02, K04, K06
TK 04	Modern methods and materials used in treatment of pulp and periapical lesions.	6	W03, W04, W05, W06, W10, W12, W13, U05, U06, U07, U12, U13, K02, K05
TK 05	Treatment procedures applicable to cases of local and general complications during and after dental treatment.	2	W03, W09, W10, W12, W13, W14, W18, U01, U02, U03, U04, U05, U06, U08, U10, U13, K01, K02, K03, K04, K05, K07
TK 06	Pathological lesions in oral cavity, neck and head in patients with general diseases.	2	W03, W07, W13, W14, W15, W18, U01, U02, U03, U05, U12, U18, K01, K02, K03, K04, K05, K06, K07
TK 07	Prosthetics rehabilitation of patients of various ages using modern methods of treatment.	4	W08, W11, W17, U01, U02,

			U03, U04, U05, U06, U12, K01, K02, K03, K04, K05, K06, K07
TK 08	Aesthetic dentistry.	3	W02, W03, W09, W11, U01, U02, U03, U06, U09, U12, U17, K01, K02, K03, K04, K05, K06, K07
TK 09	Ergonomics at dental work as a prophylaxis of occupational diseases, inclusive ones connected with dental work.	1	W19, W20, W21, U16, U17, K05, K06, K08
<b>Summer semester</b>			
<b>Clinical classes</b>			
TK 01	Examination of the patient and treatment planning.	8	W01, W02, W03, W09, W13, W16, U01, U02, U03, U04, U05, U06, U11, U12, U13, U18, U20, U21, K01, K02, K03, K04, K05, K06, K07
TK 02	Prophylaxis of dental caries and periodontal diseases.	6	W02, W09, U01, U02, U05, U10, U11, U12, U14, K02, K03, K06,
TK 03	Modern methods and materials used in treatment of mineralized tissue of the teeth.	10	W04, W11, U02, U06, U11, U12, K02, K04, K06
TK 04	Modern methods and materials used in treatment of pulp and periapical lesions.	10	W03, W04, W05, W06, W10, W12, W13, U05, U06, U07, U12, U13, K02, K05
TK 05	Treatment procedures applicable to cases of local and general complications during and after dental treatment.	4	W03, W09, W10, W12, W13, W14, W18, U01, U02, U03, U04, U05, U06, U08, U10, U13, K01, K02, K03, K04, K05, K07
TK 06	Pathological lesions in oral cavity, neck and head in patients with general diseases.	3	W03, W07, W13, W14, W15, W18, U01, U02, U03, U05, U12, U18, K01, K02, K03, K04,

			K05, K06, K07
TK 07	Prosthetics rehabilitation of patients of various ages using modern methods of treatment.	10	W02, W03, W09, W11, U01, U02, U03, U06, U09, U12, U17, K01, K02, K03, K04, K05, K06, K07
TK 08	Aesthetic dentistry.	7	W02, W03, W09, W11, U01, U02, U03, U06, U09, U12, U17, K01, K02, K03, K04, K05, K06, K07
TK 09	Ergonomics at dental work as a prophylaxis of occupational diseases, inclusive ones connected with dental work.	2	W19, W20, W21, U16, U17, K05, K06, K08

### Booklist

#### Obligatory literature:

1. Grocholewicz K i wsp. Contemporary Dentistry. Wyd. PUM 2014
2. Bain C: Treatment planning in general dental practice: A problem based approach. Churchill Livingstone 2003.
3. Banerji S, Mehta S B, Ho C C: Practical procedures in aesthetic dentistry. John Wiley & Sons, Ltd, 2017.
4. Carr A, Brown D: McCracken's removable partial prosthodontics. Mosby St.Louis, 2005
5. Rosenstiel S, Land F, Fujimoto J: Contemporary fixed prosthodontics. 4th Edition, Mosby Elsevier, 2006
6. Ritter A: Sturdevant's art and science of operative dentistry. 7th Edition, Mosby Elsevier 2018.
7. Mueller H: Periodontology: The Essentials, 2th Edition, Georg Thieme, 2015.
8. Okeson J: Management of temporomandibular disorders and occlusion. 7<sup>th</sup> Edition, Elsevier 2013.

### Student's workload

Form of student's activity (in-class participation; activeness, produce a report, etc.)	Student's workload [h]
	Tutor
Contact hours with the tutor	105
Time spent on preparation to seminars/practical classes	25
Time spent on reading recommended literature	5
Time spent on writing report/making project	5
Time spent on preparing to colloquium/entry test	15
Time spent on preparing to exam	0
Other – preparing the multimedial presentation	10
Student's workload in total	165



<b>ECTS credits for the subject (in total)</b>	7
<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...