



**SYLLABUS of the MODULE (SUBJECT)**  
**General Information**

<b>Module title: NORMS OF OCCLUSION IN ADULTS</b>	
Module type	Obligatory
Faculty PMU	Faculty of Dentistry
Major	Dentistry
Level of study	long-cycle (S2J)
Mode of study	full-time studies
Year of studies, semester	Year 2, semester 4
ECTS credits (incl. semester breakdown)	3
Type/s of training	seminars (15 h)/ practical (30 h)
Form of assessment*	<input type="checkbox"/> graded assessment: <input type="checkbox"/> descriptive <input checked="" type="checkbox"/> test <input checked="" 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	Prof. dr hab. n. med. Katarzyna Grocholewicz
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Language	English

\* replace  into  where applicable

### Detailed information

<b>Module objectives</b>		<ol style="list-style-type: none"> <li>1. To learn about the standard of occlusion in adults.</li> <li>2. Acquiring the skills to perform functional waxing of teeth in an articulator.</li> <li>3. Acquiring the ability to analyze the occlusion</li> </ol>
Prerequisite /essential requirements	Knowledge	Knowledge of the anatomical structure and functions of the stomatognathic system.
	Skills	Wax modeling of the teeth
	Competences	Ability to cooperate in a group. Self-education and verification of information sources

Description of the learning outcomes for the subject /module			
No. of learning outcome	Student, who has passed the (subject) knows /is able to /can:	SYMBOL (referring the standards)	Method of verification of learning outcomes*
W01	knows and understands the basic clinical procedures of orthodontic prevention	C.W33.	K, ZAO
W02	knows and understands occlusion norms and deviations in different phases of ontogenesis	F.W1.	W, K, ZAO
W03	knows and understands causes of complications of stomatognathic system diseases and the rules of their management	F.W12.	K, ZAO
W04	knows and understands therapeutic methods of pain control as well as anxiety and stress reduction	F.W15.	K, ZAO
W05	knows and understands pathomechanism of systemic diseases and their therapy influence on oral cavity	F.W20.	K, ZAO
U01	is able to reproduce anatomic occlusion conditions and analyze occlusion	C.U12.	S,PS,O, ZAO
U02	is able to plan the basic phases of preventive care in patients with orthodontic needs	C.U16.	S, PM, ZAO
U03	is able to establish treatment for stomatognathic system tissues diseases	F.U15	S,SP, ZAO
U04	is able to diagnose, differentiate and classify malocclusion	F.U18	S,ZAO
K01	is ready to notice and recognize own limitations, make self-assessment of educational deficits and needs	K.5.	O
K02	is ready to draw conclusions from own measurements or observations	K.8.	O, PS, ZAO

**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	knows and understands the basic clinical procedures of orthodontic prevention		x	x				
W02	knows and understands occlusion norms and deviations in different phases of ontogenesis		x	x				
W03	knows and understands causes of complications of stomatognathic system diseases and the rules of their management		x	x				
W04	knows and understands therapeutic methods of pain control as well as anxiety and stress reduction		x	x				
W05	knows and understands pathomechanism of systemic diseases and their therapy influence on oral cavity		x	x				
U01	is able to reproduce anatomic occlusion conditions and analyze occlusion			x				
U02	is able to plan the basic phases of preventive care in patients with orthodontic needs			x				
U03	is able to establish treatment for stomatognathic system tissues diseases			x				
U04	is able to diagnose, differentiate and classify malocclusion			x				
K01	is ready to notice and recognize own limitations, make self-assessment of educational deficits and needs		x	x				
K02	is ready to draw conclusions from own measurements or observations			x				

**Table presenting TEACHING PROGRAMME**

No. of a teaching programme	Teaching programme	No. of hours	References to learning outcomes
<b>Summer semester</b>			
<b>Seminars</b>			
TK01	Stomatognathic system.	3	W01, W02, W03,

	Functional anatomy of the masticatory organ		K01
TK02	Facebow and articulator – design, types, application. Functional space in the articulator.	3	W01, W02, W03 K01
TK03	Articulation states of the mandible. Centric relations, centric occlusion, maximum intercuspatation. Movements of the mandible.	3	W01, W02, W03 K01
TK04	The importance of correct occlusion in the physiology of the masticatory organ in adults. Concept of occlusion.	3	W01, W02, W03, W04, W05, K01, K02
TK05	Functions of the stomatognathic system. Bruxism. Examination – theoretical part (test)	3	W01, W02, W03 W04, W05, K01, K02
<b>Practical classes</b>			
TK1	Clinical application of the facebow. Mounting the upper model to the articulator.	3	U01, U02, U03, U04 K01, K02
TK2	Mounting the lower model to the articulator. Bite registration. Centric relation. Maximum intercuspidation.	3	U01, U02, U03, U04 K01, K02
TK3	Functional space in the articulator. Construction and application of the articulator. Programming of the articulator	3	U01, U02, U03, U04 K01, K02
TK4	Characteristics of “ideal occlusion” in dental class I. Functional lines of dental arches	3	U01, U02, U03, U04, K01, K02
TK5	Morphology and function of the teeth in stomatognathic system. Casts analysis in the articulator	3	U01, U02, U03, U04 K01, K02
TK6	Functional waxing in skeletal class I – occlusal plane, curve of Spee.	3	U01, U02, U03, U04, K01, K02
TK7	Functional waxing in skeletal class I Functional waxing – static interarch relationship of a class I occlusion. Concept of occlusion – main rules.	3	U01, U02, U03, U04, K01, K02
TK8	Functional waxing, class I – dynamic occlusion in dental class I, control of movements of the mandible	3	U01, U02, U03, U04, K01, K02
TK9	Analysis of the casts in the articulator. Virtual articulation and occlusion.	3	U01, U02, U03, U04, K01, K02
TK10	Final examination: practical part.	3	U01, U02, U03, U04, K01, K02
<b>Simulation</b>			
<b>E-learning</b>			

<b>Booklist</b>
Obligatory literature:
1. Okeson J. Management of Temporomandibular Disorders and Occlusion. Elsevier Books, 4th Edition.
2. Nelson SJ, Ash MA. Wheeler's Dental Anatomy, Physiology and Occlusion 9'th Edition Elsevier 2010.
Supplementary literature:
1. Dawson PE. Functional Occlusion From TMJ to Smile Design. Elsevier – Health Sciences Division, 2006.
2. Drake R, Vogl W, Mitchel A. Gray,s Anatomy for students. Elsevier 2019.
3. Rosenstiel SF, Land MF, Fujimoto J. Contemporary Fixed Prosthodontics, 4th Edition, Mosby Elsevier, 2006.

<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	45
Time spent on preparation to seminars/ practical classes	5
Time spent on reading recommended literature	5
Time spent on writing report/making project	2
Time spent on preparing to colloquium/ entry test	3
Time spent on preparing to exam	5
Other .....	
Student's workload in total	65
<b>ECTS credits for the subject (in total)</b>	3
<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...