



Pomeranian Medical University in Szczecin

SYLLABUS of the MODULE (SUBJECT)

valid from the academic year 2017/2018

General Information

Module title	Dental Prosthetics
Module type	<u>Obligatory</u> /Facultative (wybrać)
Faculty	<u>Faculty of Medicine and Dentistry</u>
Field of study	<u>Medicine and Dentistry</u>
Major	Not applicable
Level of study	long-cycle (S2J)
Mode of study	intramural
Year of studies, semester	5 Year, IX semester and X semester
ECTS credits (incl. semester breakdown)	10 ECTS, (IX semester -5, X semester -5)
	seminars - 15h (sem. IX) classes - 145h (sem. IX - 75h, sem. X -70h)
Form of assessment	- final examination: x test x practical x oral
Head of the Department/ Clinic, Unit	dr hab.n.med. Ewa Sobolewska prof. PUM
Tutor responsible for the module	dr hab.n.med. Ewa Sobolewska prof. PUM, dr n. med. Anna Czajkowska, dr n. med. Bartosz Dalewski dr n. med. Małgorzata Kozak, malgorzata.kozak@pum.edu.pl
Department's/ Clinic's/ Unit's website	www.pum.edu.pl/wydzialy/wydzial-lekarsko-stomatologiczny
Language	English

Detailed information

Module objectives		<p>The aim of teaching prosthodontics is to acquire the information of the characteristics of fixed and removable restorations based on material technologies and laboratory procedures. As part of practical classes, the student performs individual laboratory stages of fixed and removable prosthetic restorations and participates in demonstrations of certain laboratory stages (casting, flasking, polymerization).</p> <p>The aim of teaching is also to acquire theoretical knowledge and practical skills allowing for independent work and making decision about indications, planning and carrying out the prosthetic treatment in simple cases of missing teeth with the use of removable partial dentures and fixed restorations. Acquiring of the necessary theoretical knowledge, improvement of practical and manual skills.</p>	
Prerequisite /essential requirements	Knowledge	Knowledge of anatomy and physiology of head and neck tissues.	
	Skills	Knowledge of the principles for using dental unit and equipment being in the equipment of clinical rooms, knowledge of using the equipment in technical laboratories.	
	Competences	The habit of self-education, teamwork	
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) ZEK	Method of verification of learning outcomes *
W01	knows Polish and English anatomical, histological and embryological terminology	K_F.W03	Continuous assessment in the classroom – seminars and practice; 100% attendance -absence during class must be worked out with different group
W02	explains development of organs and entire body with particular regard to masticatory system	K_F.W05	Continuous assessment in the classroom – seminars and practice; 100% attendance -absence during class must be worked out with different group

W03	knows causes and procedures for management with complications of stomatognathic system diseases	K_F.W14	Continuous assessment in the classroom – seminars and practice; 100% attendance -absence during class must be worked out with different group
W04	knows rehabilitation methods for stomatognathic system	K_F.W16	Continuous assessment in the classroom – seminars and practice; 100% attendance -absence during class must be worked out with different group
W05	knows basic clinical procedures for reconstruction of tooth hard tissue, endodontic treatment and methods and laboratory procedures for prosthetic restorations	K_F.W28	Continuous assessment in the classroom – seminars and practice; 100% attendance -absence during class must be worked out with different group
W06	knows mechanisms of degradation (corrosion) of dental biomaterials in oral cavity and influence thereof on biological properties of materials	K_F.W29	Continuous assessment in the classroom – seminars and practice; 100% attendance -absence during class must be worked out with different group
U01	takes subjective needs and expectations of patients resulting from social and cultural conditions into consideration in therapeutic procedure	K_F.U01	Continuous assessment in the classroom – seminars and practice; 100% attendance -absence during class must be worked out with different group
U02	recognizes symptoms of anti-health and self-destructive behavior and responds in an appropriate manner	K_F.U02	Continuous assessment in the classroom – seminars and practice; 100% attendance -absence during class must be worked out with different group

U03	provides patient with explanation about nature of ailment, prescribes treatment confirmed by patient's free consent and prognosis	K_F.U03	Continuous assessment in the classroom – seminars and practice; 100% attendance -absence during class must be worked out with different group
U04	provides patient or his/her relatives with bad news about health state	K_F.U04	Continuous assessment in the classroom – seminars and practice; 100% attendance -absence during class must be worked out with different group
U05	interprets results of ancillary tests	K_F.U06	Continuous assessment in the classroom – seminars and practice; 100% attendance -absence during class must be worked out with different group
U06	finds indications as to performance of certain dental procedure	K_F.U07	Continuous assessment in the classroom – seminars and practice; 100% attendance -absence during class must be worked out with different group
U07	knows prophylaxis of oral cavity diseases	K_F.U08	Continuous assessment in the classroom – seminars and practice; 100% attendance -absence during class must be worked out with different group
U08	knows procedures applicable to cases of general and local complications during and after dental treatment	K_F.U11	Continuous assessment in the classroom – seminars and practice; 100% attendance -absence during class must be worked out with different group

U09	keeps day-to-day patient's records, refers patient to general and special dental and medical examination or treatment	K_F.U13	Continuous assessment in the classroom – seminars and practice; 100% attendance -absence during class must be worked out with different group
U10	establishes treatment in diseases of stomatognathic system tissues	K_F.U18	Continuous assessment in the classroom – seminars and practice; 100% attendance -absence during class must be worked out with different group
U11	performs prosthetic rehabilitation in easy cases with regard to clinical and laboratory procedure	K_F.U25	final examination: - test - practical - oral
U12	selects reconstructive, prosthetic and binding materials according to properties of materials and clinical conditions	K_C.U11	Continuous assessment in the classroom – seminars and practice; 100% attendance -absence during class must be worked out with different group
U13	designs prosthetic restorations and knows how to execute them in laboratory	K_C.U13	Continuous assessment in the classroom – seminars and practice; 100% attendance -absence during class must be worked out with different group
K01	shows habit of self-education and life-long education	K_K01	
K02	can co-operate with team members and care about occupational safety	K_K03	
K03	understands sense of responsibility for entrusted property	K_K07	

Table presenting learning outcomes of the subject/module in relation to the form of classes									
No.	SYMBOL (referring the standards) ZEK	Type/s of training							
		Lecture	Seminar	Practical classes	Clinical classes	Other...
1.	K_F.W03		X		X				
2.	K_F.W05		X		X				
4	K_F.W14		X		X				
5	K_F.W16		X		X				
8	K_F.U01		X		X				
9	K_F.U02		X		X				
10	K_F.U03		X		X				
11	K_F.U04		X		X				
12	K_F.U06		X		X				
13	K_F.U07		X		X				
14	K_F.U08		X		X				
15	K_F.U09		X		X				
16	K_F.U011		X		X				
17	K_F.U013		X		X				
18	K_F.U014		X		X				
19	K_F.U015		X		X				
20	K_F.U018		X		X				
21	K_F.U025		X		X				
24	K_K.01		X		X				
26	K_K.03		X		X				
26	K_K.07		X		X				

Module (subject) contents no.	Description of teaching programme	No. of hours	References to learning outcomes
	V Year		
	Seminars 15 hrs		
TK 01	<p>Complete dentures</p> <p>Diagnostics, patient examination, types of denture bearing area</p> <ul style="list-style-type: none"> - Stages of treatment, treatment planning, anatomical impressions - Anatomy of the edentulous ridge, custom tray stage - Functional impression techniques and impression materials - Herbst' functional tests - occlusal rim stage - different methods of determining proper OVD and MMR in edentulism - methods of teeth arrangement in complete dentures - trial denture stage - laboratory procedures: flasking and boiling - giving the complete denture to the patient - common mistakes during edentulous patient treatment - denture adaptation issues - impact of systemic diseases on treatment planning - Ivoclar Vivadent's Biofunctional Prosthetic System - BPS 	3hrs	U11, U12, U13, K01, K02, K03
TK 02	<p>Removable partial dentures, including surveying - electro-chemical phenomena in the oral cavity caused by the presence of prosthodontic appliances:</p> <ul style="list-style-type: none"> - indications and contraindications for RPD treatment - patient examination, preprosthetic treatment planning - surveying - removable partial denture design - clinical and lab stages, possible alternative materials - recall - relationship between structure and material used and the occurrence of prosthetic stomatopathies - stomatopatia prothetica mycotica, etiopathogenesis, diagnosis, prevention and treatment. 	3hrs	U11, U12, U13, K01, K02, K03

TK 03	Restoration of severe tooth wear. Etiopatogenesis of tooth wear and available classifications. - etiopatogenesis of tooth wear and available classifications - code of conduct, therapy stages and modalities, splint design and adaptation period - prosthetic solutions for worn dentition - types of removable dentures used (overdenture, cover-denture, telescopic, etc) - types of fixed restorations used in worn dentition treatment	3hrs	U11, U12, U13, K01, K02, K03
TK 04	Fixed restorations treatment planning according to prophylaxis of tooth wear and maintaining healthy oral cavity over lifetime –future remarks for aging population. - impact of different restorations and disturbances within occlusal plane on masticatory system's components - establishing proper dynamic and static occlusion – a key to success - CAD/CAM in modern prosthetic dentistry	3hrs	U11, U12, U13, K01, K02, K03
TK 05	Implant treatment in prosthetic dentistry. - indications and contraindications - different restoration design according to certain clinical conditions - treatment planning and stages` time span occlusal concept and design - healing abutments, impression techniques and impression materials - fixing implant-retained restorations, available cements - recall	3hrs	U11, U12, U13, K01, K02, K03
	Practical classes	145 hrs	W01, W02, W03, W04, W05, W06, U01, U02, U03, U04, U05, U06, U07, U08, U09, U10, U11, U12, U13

Booklist

Obligatory literature:

1. Rosenstiel SF, Land MF, Fujimoto J. "Contemporary Fixed Prosthodontics", 4th Edition, Mosby Elsevier, 2006
2. Powers J, Sakaguchi R. "Craig's Restorative Dental Materials" 12th Edition, Mosby Elsevier, 2006
3. Basker R, Davenport J. "Prosthetic Treatment of the Edentulous Patient" 4th Edition, Wiley-Blackwell, 2002
4. Carr AB, Brown "McCracken's removable partial prosthodontics" Mosby St.Louis, 2005

Supplementary literature:			
1. Rahn A., Heartwell C. "Textbook of complete dentures", 6th ed., 2009 2. Marcia A Gladwin, Michael Bagby " 3. Peter E. Dawson "Functional Occlusion From TMJ to Smile Design", Mosby Title 2007 4. Major M Ash, Stanley J. Nelson "Wheeler's dental anatomy, physiology and occlusion" , 8th edition, Saunders 2003 5. Misch C.E., "Dental Implant Prosthetics", Mosby 2005 6. David Mostofsky, Albert Forgione, Donald Giddon "Behavioral Dentistry", Blackwell Publishing 2006 7. Basker R.M., Davenport J.C: Prosthetic treatment of the edentulous patient, 4th ed., John Wiley & Sons, 2002 8. Kenneth J. Anusavice, "Phillip's Science of Dental Materials", 11th edition, Saunders 2003 9. Land & Fujimoto "Contemporary Fixed Prosthodontics", Rosentiel, 4th Edition, Mosby Elsevier 2006 10. McCord J.F., Grey N., "Treatment of Edentulous Patients", Churchill Livingstone, 2004 11. Bartlett D., "Clinical Problem Solving in Prosthodontics", Churchill Livingstone 2004 12. Shillingburg, Herbert T., Jr.: Fundamentals of Fixed Prosthodontics, 3rd edition Chicago: Quintessence Pub., c1997. ISBN: 086715201X 13. McGivney, Glen P., Carr Alan B., Brown David T., McCracken's Removable Partial Prosthodontics, 11th ed. 14. Craig, John M. Powers, John C. Wataha, "Dental Materials, Properties and Manipulation", 9th edition, Mosby 2007 15. Bernard GN Smith "Planning and Making Crowns and Bridges", Martin Dunitz, 1998 16. Okeson J., "Management of Temporomandibular Disorders and Occlusion, Mosby Elsevier 2008 17. Zarb G.A., Bolender C.L., Eckert S., Jacob R., Mericske-Stern F, "Prosthodontic Treatment for Edentulous Patients: Complete Dentures and Implant-Supported Prostheses", 12th edition, Mosby Co.			
Student's workload (balance sheet of ECTS credits)			
Form of student's activity (in-class participation; activeness, produce a report, etc.)	Student's workload [h]		
	Tutor	Student	Average
Contact hours with the tutor	160	160	
Time spent on preparation to seminars/ practical classes	30		
Time spent on reading recommended literature	10		
Time spent on writing report/making project			
Time spent on preparing to colloquium/ entry test			
Time spent on preparing to exam	27		
Other			
Student's workload in total	477		
ECTS credits for the subject (in total)	227		

Remarks

* 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 presentata

other...