



Pomeranian Medical University in Szczecin

SYLLABUS of the MODULE (SUBJECT)
valid from the academic year 2018/2019

General Information

Module title	Dental Prosthetics
Module type	Obligatory
Faculty	Faculty of Medicine and Dentistry
Field of study	Medicine and Dentistry
Major	Not applicable
Level of study	long-cycle (S2J)
Mode of study	intramural
Year of studies, semester	3 Year (V semester and VI semester)
ECTS credits (incl. semester breakdown)	4 ECTS (V semester - 2, VI semester- 2)
	3 Year lectures – 10h (sem. V) seminars - 10h (sem. V - 5, sem. VI - 5) practical classes - 60h (sem. V - 30, sem. VI - 30)
Form of assessment	graded assessment
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 units 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	
U01	takes subjective needs and expectations of patients resulting from social and cultural conditions into consideration in therapeutic procedure	K_F.U01	
U02	recognizes symptoms of anti-health and self-destructive behavior and responds in an appropriate manner	K_F.U02	
U03	finds indications as to performance of certain dental procedure	K_F.U07	
U04	performs prosthetic rehabilitation in easy cases with regard to clinical and laboratory procedure	K_F.U25	
K01	accepts need of standards of conduct and legislation regarding medical practice	K_K02	
K02	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	X					
2.	K_F.W05	X							
3.	K_F.U01	X		X					
4.	K_F.U02	X	X	X					
5.	K_F.U07	X	X	X					
6.	K_F.U025	X	X	X					
7.	K_K.02	X	X	X					
8.	K_K.07	X		X					

Module (subject) contents no.	Description of teaching programme	No. of hours	References to learning outcomes
	III YEAR		
	Lectures	10hrs	
TK 01	Patient examination. Characteristics of a masticatory system.	1hrs	W01, W02, U01, U02, U03, U04, K01, K02
TK 02	Prosthetic treatment planning. Preliminary procedures.	1hrs	
TK 03	Edentulous patient – introduction, anatomy of edentulous ridges, patient examination, treatment planning, impressions.	1hrs	
TK 04	Complete dentures – occlusion concept: - determining OVD - occlusal rim stage and teeth arrangement in edentulous patients.	1hrs	
TK 05	Removable partial dentures – introduction and indications.	1hrs	
TK 06	Introduction to fixed dentures – diagnostics and treatment planning.	1hrs	
TK 07	Reconstruction of endodontically treated tooth - custom and standard root inlays, posts, post-and-core procedures.	1hrs	
TK 08	Crowns and veneers.	1hrs	

TK 09	Fixed partial dentures - prosthetic bridges. Introduction, biomechanics, treatment planning.	1hrs	
TK 10	Repairing a prosthetic restoration: -reasons and types of damage of fixed and removable prosthetic restorations -methods of repairing fixed and removable prosthetic restorations -indications and methods of relining the denture	1hrs	
	Seminars	10 hrs	
TK 01	Primary and secondary dental materials	1 hrs	U04, K01, K02
TK 02	Topography of the bearing area. Changes occurring in the stomatognathic system due to tooth loss. Impression trays, impression types and techniques.	1 hrs	W02, U04
TK 03	Facebow and articulators.	1 hrs	K02
TK 04	Technical workshop equipment. Principles of medical and technical cooperation.	1 hrs	U01, U02, U03, U04
TK 05	Dental-prosthetic education of the patient	1 hrs	W02
TK 06	Dental materials used in complete and removable dentures-repetition.	3 hrs	U04, K01, K02
TK 07	Dental materials used in fixed restorations -repetition.	2 hrs	
	Practical classes:	60 hrs	W01, W02, U01, U02, U03, U04, K01, K02
TK 01	Tooth preparation for a full metal crown – 'knife edge'	3 hrs	U03, K02
TK 02	Tooth preparation (,chamfer' ,shoulder') for a porcelain crown	3 hrs	
TK 03	Bite registration, facebow	3 hrs	W01, W02, K02
TK 04	Modelling a crown	3 hrs	U04, K02
TK 05	Teeth preparation for a dental bridge	3 hrs	W01, W02, U04, K02
TK 06	Bite registration, facebow	3 hrs	W01, W02, U04, U03
TK 07	Preparing a tooth for a root inlay	3 hrs	
TK 08	Modelling a root inlay	3 hrs	
TK 09	General rules of root inlay cementation	3 hrs	
TK 10	Mistakes in clinical and laboratory stages of fixed restorations.	3 hrs	
TK 11	Complete dentures. Fabrication of a shellac custom tray.	3 hrs	W01, W02, U04, U03, K02
TK 12	Fabrication of a composite custom tray.	3 hrs	

TK 13	Fabrication of a shellac custom tray.	3 hrs	
TK 14	Complete dentures. Occlusal rims	3 hrs	
TK 15	Teeth arrangement	3 hrs	
TK 16	Teeth arrangement - continuation	3 hrs	
TK 17	Removable dentures. Occlusal rims fabrication	3 hrs	
TK 18	Removable dentures. Teeth arrangement - Clasp bending	3 hrs	
TK 19	Removable dentures. Flasking and boiling	3 hrs	
TK 20	Mistakes in clinical and laboratory stages of removable dentures.	3 hrs	

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.
- Clinical Aspects of Dental Materials: Theory, Practice, and Cases" - Paperback (Mar. 1, 2008)

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	80	80	
Time spent on preparation to seminars/ practical classess	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	147		
ECTS credits for the subject (in total)	4		
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

RZĈ–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...