Annex to
the Ordinance No. 32/2017

Pomorski Uniwersytet Medyczny w Szczecinie

SYLLABUS of the MODULE (SUBJECT)
General Information

Module title: Dental radiology	
Module type	Obligatory
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	Year 4/ semester VII
ECTS credits (incl. semester breakdown)	2
Type/s of training (Number of hours)	Lectures (5h) seminars (15h) practical classes (10h)
Form of assessment*	☐graded assessment: ☐ descriptive ☐ test ☐ practical ☐ oral ☐ non-graded assessment ☒ final examination ☐ descriptive ☒test ☒practical ☐ oral
Head of the Department /Clinic, Unit	Prof. dr hab. n. med. Aleksander Falkowski zrz@pum.edu.pl zrz@pum.edu.pl
Tutor responsible for the module	Dr n. med. Magdalena Sroczyk - Jaszczyńska
Name and contact data of the unit	Chair and Department of General, Dental and Procedural Radiology Al. Powstańców Wielkopolskich 72/18,70-111 Szczecin
Department's/Clinic's/Unit's website	www.pum.edu.pl
Language	Polish/English

* where applicable, replace ☐ into ☒

Detailed information

Module objectives		The fundamental objective of teaching general and dental radiology is to integrate knowledge of the use of different types of radiation and examination techniques in conjunction with clinical issues in dentistry and medicine. Presentation of the effects of endodontic treatment on the basis of evaluation of x-rays. using various techniques. Knows basic x-ray techniques in dentistry and can indicate errors made during their performance. X-ray diagnostics of patients prepared for prosthetic, orthodontic and surgical treatment, taking into consideration current regulations concerning the quality of examination and maintaining a quality book in a dental surgery. Diagnosis of temporomandibular joint dysfunctions. Diagnostics of craniofacial bone diseases including benign and malignant tumours, cysts on the basis of conventional X-ray techniques, ultrasonography, computed tomography and magnetic resonance imaging (including the possibilities and limitations of individual examination methods and their diagnostic effectiveness in various types of pathology). Diagnosis of craniofacial injuries. Tumours of the salivary glands.
Prerequisite /essential requirements	Knowledge	Knowledge of the basis of pathological changes in the craniofacial bones
	Skills	Knowledge of diagnostic possibilities and interpretation of x-ray imaging in dentistry
	Competences.	Ability to contact the patient, self-education, work in a team.

Description of the learning outcomes for the subject/module			
No. of learning outcome	**Student, who has passed the (course)**	**SYMBOL (referring the standards)**	**Method of verification of learning outcomes***
W01	knows morphology of pulp cavity and rules of endodontic treatment and instruments	K_F.W09	K
W02	knows diagnostics and treatment of parodontium and diseases of oral mucosa	K_F.W11	K
W03	knows rules of radiological diagnostics	K_F.W21	K

U01	interprets results of ancillary tests	K_F.U06	RZĆ
U02	explains pathological changes in cells, tissues and organs according to basic mechanisms	K_F.U16	RZĆ
K01	can co-operate with team members and care about occupational safety	K_K03	RZĆ
K02	shows respect to patient, social groups and cares for their goodwill and security	K_K05	RZĆ

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	Simulation	E-learning	Other
W01	K_F.W09	X	X					
W02	K_F.W11	X		X				
W03	K_F.W21	X	X					
U01	K_F.U06			X				
U02	K_F.U16		X					
K01	K_K03		X	X				
K02	K_K05			X				

Table presenting TEACHING PROGRAMME

No. of a teaching programme	Teaching programme	Number of hours	References to learning outcomes
Winter semester			
Lectures (5h)			
TK01	Magnetic resonance imaging	1	K_F.W21
TK02	Computed tomography - basics and application in dentistry	1	K_F.W21
TK03	Positron emission tomography	1	K_F.W21
TK04	Scintigraphy - basics and application in stomatol ology	1	K_F.W21
TK05	CBCT	1	K_F.W21 K_F.W09 . K_F.W11

Seminars (15h)			
TK01	Recalling the way of taking x-ray pictures (extraoral, intraoral) - the most common errors	2	K_F.W21
TK02	Endodontic treatment in x-ray images	1	K_F.W09
TK03	Usefulness of x-ray examinations in the preparation of a patient for treatment in a dental office, taking into consideration prosthetic Orthodontic and surgical treatment.	2	K_K03
TK04	Maxillary bone cysts and their differentiation.	2	K_F.U16
TK05	Benign and malignant tumours of the craniofacial region (including dentigerous tumors)	2	K_F.U16
TK06	Skull and craniofacial injuries	2	K_F.U16
TK07	Salivary gland diseases.	2	K_F.U16
TK08	Diseases of temporomandibular joints	2	K_F.U16
Practical classes (10h)			
TK01	Practical description of intraoral radiographs	2	K_F.W11
TK02	Practical description of extraoral pictures - pantomograms	2	K_K03
TK03	Practical description of CBCT examinations	2	K_K03
TK04	Interventional radiology in dentistry	2	K_F.U06
TK05	Ultrasound - practical classes in the laboratory, interpretation of of examination results	2	K_F.U06 K_K05

Booklist:
1. Różyło-Kalinowska I, Różyło TK „Współczesna radiologia stomatologiczna” wyd. Czelej
2. Różyło-Kalinowska I, Różyło TK „Tomografia wolumetryczna w praktyce stomatologicznej” wyd. Czelej
3. Langlais RP „Radiologia stomatologiczna. Interpretacja badań” wyd. Elsevier
Supplementary literature
1.Pasler FA „Radiologia stomatologiczna” wyd. Elsevier Edra

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	30
Time spent on preparation to practical classes	
Time spent on reading recommended literature	10
Time spent on writing report/making project	
Time spent on preparing to colloqium/ entry test	10
Time spent on preparing to exam	
Other …..	
Student's workload in total	50
ECTS credits	2
Notes	

* Selected examples of methods of assessment:

EP – written examination
EU – oral examination
ET – test examination
EPR – practical examination
K – colloqium
R – report
S – practical skills assessment
RZĆ – 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…