

Table 5.2 Study Program of Doctoral Studies: Basic and Clinical Research in Dentistry
Curriculum Structure per Semester and Year of Study

No	Code	COURSE	Semester	Status	No. of classes of active teaching			ECTS
					L	SIR	Other	
Year I								
1	D20MET	Introduction to Methodology and Ethics of Scientific Research	1	Compulsory	4	3		11
2	D20STA	Medical Statistics	1	Compulsory	3	3		9
3	D20IZ1	Elective Block 1	1	Elective	4	3		10
4	D20PUB	Publishing in Biomedical Sciences	2	Compulsory	3	3		9
5	D20LAB	Laboratory Procedures and Functional Testing of the Orofacial Region	2	Compulsory	4	3		11
6	D20IZ2	Elective Block 2	2	Elective	4	3		10
Total No. of classes of active teaching per year of study					22	18		60
Year II								
7	D20IZ3	Elective Block 3 (2x13 ECTS)	3	Elective	8	8		26
8	D20POM	Doctoral dissertation: collaborative work with the potential supervisor	3	Compulsory		4		4
9	D20KON	Doctoral dissertation: conference presentation published in a book of abstracts	4	Compulsory		11		8
10	D20SAM	Doctoral dissertation: independent research work	4	Compulsory		9		7
11	D20DD1	Doctoral dissertation: execution (Stage 1)	4	Compulsory			10	15
Total No. of classes of active teaching per year of study					8	32		60
Year III								
12	D20MTR	Doctoral dissertation: collaborative work with the supervisor	5	Compulsory		20		20
13	D20DD2	Doctoral dissertation: execution (Stage 2)	5	Compulsory			10	10
14	D20SCI	Doctoral dissertation: Publishing an article in a journal indexed in SCI	6	Compulsory		14		10
15	D20DDP	Doctoral dissertation: execution and defense	6	Compulsory		6		15
16	D20DDS	Doctoral dissertation: execution and defense	6	Compulsory			6	5
Total No. of classes of active teaching per year of study						40		60
Total No. of classes of active teaching within the study program					120		26	180

Elective block 1

No	Code	COURSE	Semester	Status	No. of classes of active teaching			ECTS
					L	SIR	Other	
Year I								
1	D20PEN	Principles of Epidemiological Sciences in Dental Public Health	1	Elective	4	3		10
2	D20BMS	Stem Cell Biology and Cell Signalling	1	Elective	4	3		10
3	D20BNI	Biomedical Scientific Informatics	1	Elective	4	3		10
4	D20BPS	Biomechanical Principles in Dental Sciences	1	Elective	4	3		10
5	D20RAZ	Development and Developmental Anomalies of the Orofacial System	1	Elective	4	3		10
6	D20RAD	Radiological Procedures in Dentistry	1	Elective	4	3		10

Elective block 2

No	Code	COURSE	Semester	Status	No. of classes of active teaching			ECTS
					L	SIR	Other	
Year I								
1	D20FUN	Assessment of Changes in the Quality of the Osseous Fundament from the Aspect of Prosthetic Treatment Planning	2	Elective	4	3		10
2	D20FOT	Principles of Photography of the Orofacial Region in Scientific Research	2	Elective	4	3		10
3	D20BMA	Research of Biomaterials for Application in Dentistry	2	Elective	4	3		10
4	D20IRM	Research of Reconstructive Methods and Materials	2	Elective	4	3		10
5	D20RDR	Growth, Differentiation and Regeneration of Oral Tissues	2	Elective	4	3		10
6	D20FSB	Physiological States and Systemic Diseases – the Impact on the Orofacial Region	2	Elective	4	3		10

Elective block 3

No	Code	COURSE	Semester	Status	No. of classes of active teaching			ECTS
					L	SIR	Other	
Year II								
1	D20EKS	Procedures for Operating with Experimental Animals	3	Elective	4	4		13
2	D20NMS	Advanced Medical Statistics	3	Elective	4	4		13
3	D20TSM	Transduction Signalling Molecules in Oral Tissues in Physiological and Diseased Conditions	3	Elective	4	4		13
4	D20EIR	Epidemiological Studies of Orofacial Diseases	3	Elective	4	4		13

5	D20KBO	Orofacial Pain Control	3	Elective	4	4		13
6	D20MMZ	Molecular Mechanisms in Inflammatory Oral Diseases	3	Elective	4	4		13
7	D20RDE	Materials, Therapeutics and Medical Devices in Restorative and Pediatric Dentistry and Endodontics	3	Elective	4	4		13
8	D20PRI	Prospective and Retrospective Investigations in the Rehabilitation of the Orofacial Complex	3	Elective	4	4		13
9	D20PAK	Pathohistological Characteristics of Tumors of the Orofacial Region	3	Elective	4	4		13
10	D20MOL	Molecular Genetic Studies of Orofacial Diseases	3	Elective	4	4		13
11	D20BPO	Biochemical Markers in Oral Diseases	3	Elective	4	4		13
12	D20KVP	Quality of Life of Patients with Orofacial Diseases	3	Elective	4	4		13
13	D20POV	Research and Definition of the Risk of Oral Diseases and Dental Injuries	3	Elective	4	4		13
14	D20PAZ	Experimental Research of Periodontal Diseases	3	Elective	4	4		13
15	D20PRO	Prospective and Retrospective Investigations of Dental Tissue Reconstruction	3	Elective	4	4		13
16	D20MAT	Clinical Application of Stem Cells in Dentistry	3	Elective	4	4		13
17	D20IMS	Instrumental Methods in Dentistry	3	Elective	4	4		13
18	D20MOD	Modulation of the Oral Biofilm	3	Elective	4	4		13
19	D20BIO	Biologically Active Molecules as Inducers of Pulp-Dentin Reparation	3	Elective	4	4		13