

Doctor of Philosophy in Orthodontic Dentistry

Department: Orthodontics

Program Aims: The program enhances and empowers Orthodontists diagnostic and treatment planning skills. At the end of the program, the PhD candidate will achieve the highest professional knowledge and skills relevant to the practice of orthodontic domain as well as research skills that enable graduates to make decision based on the best available evidence.

a. Compulsory

Semester I

Code	Title	Weeks	Didactic	Practical	Contact	Self Study	Work Load	SWL	Credit Hours	Credit Points
ORTH701	Temporomandibular Disorders II	15	1	2	3	4	7	105	2	4
ORTH702	Advanced Orthodontic Techniques	15	1	2	3	4	7	105	2	4
ORTH703	Special Topics in Orthodontics (Seminars)	15	1	0	1	4	5	75	1	3
ORTH704	Orthodontic Clinics	15	0	8	8	0	8	120	4	4

Semester II

Code	Title	Weeks	Didactic	Practical	Contact	Self Study	Work Load	SWL	Credit Hours	Credit Points
OMED804	Advanced Genetics	8	1	0	1	2	3	24	1	1
ORTH801	Special Topics in Orthodontics (Seminars)	15	1	0	1	4	5	75	1	3
ORTH802	Multidisciplinary Treatment II	15	1	2	3	4	7	105	2	4
Orth803	Orthodontic Clinics	15	0	8	8	0	8	120	4	4

Semester III

Code	Title	Weeks	Didactic	Practical	Contact	Self Study	Work Load	SWL	Credit Hours	Credit Points
ORTH901	Orthodontics Mechanics	15	1	2	3	4	7	105	2	4
ORTH902	Fundamentals of Molecular Biology	15	2	0	2	2	4	60	2	2
ORTH903	Special Topics in Orthodontics (Seminars)	15	1	0	1	4	5	75	1	3
Orth904	Orthodontic Clinics	15	0	8	8	0	8	120	4	4

Semester IV

Code	Title	Weeks	Didactic	Practical	Contact	Self Study	Work Load	SWL	Credit Hours	Credit Points
ORTH1001	Facial Growth & Development	15	1	2	3	4	7	105	2	4
ORTH1002	Special Topics In Orthodontics (Seminars)	15	1	0	1	4	5	75	1	3
Orth1003	Orthodontic Clinics	15	0	8	8	0	8	120	4	4

Students should study elective courses to complete 120 credit points. Each credit point is equivalent to 28 workload hours.

b- Elective – 4 courses

Humanities & Management Skills

Code	Title	Weeks	Didactic	Practical	Contact	Self Study	Work Load	SWL	Credit Hours	Credit Points
ELCT101	Management In Dental Practice	15	1	0	1	4	5	75	1	3
ELCT102	Resources Management Introduction To Human	15	1	0	1	4	5	75	1	3
ELCT103	Introduction To Quality Management	15	1	0	1	4	5	75	1	3
ELCT104	Introduction To Hospital Management	15	1	0	1	4	5	75	1	3
ELCT105	Introduction To Marketing	15	1	0	1	4	5	75	1	3
ELCT106	Sustainable Development And Environment Management	15	1	0	1	4	5	75	1	3
ELCT107	Professional Behavior And Leadership Skills	15	1	0	1	4	5	75	1	3

Sciences & Skills

Code	Title	Weeks	Didactic	Practical	Contact	Self Study	Work Load	SWL	Credit Hours	Credit Points
ELCT201	Stem Cell Applications And Tissue Engineering	15	1	0	1	4	5	75	1	3
ELCT202	Laser In Dentistry	15	1	0	1	4	5	75	1	3
ELCT203	Infection Control And Hospital Acquired Infection	15	1	0	1	4	5	75	1	3
ELCT204	Management Patient Safety And Risk	15	1	0	1	4	5	75	1	3
ELCT205	Clinical Photography And Case Presentation	15	1	2	3	2	5	75	2	3
ELCT206	Dental Informatics	15	1	0	1	4	5	75	1	3
ELCT207	Management Of Patients With Special Needs	15	1	0	1	4	5	75	1	3
ELCT207	Forensic Dentistry	15	1	0	1	4	5	75	1	3
ELCT208	Comparative Dental Anatomy	15	1	0	1	4	5	75	1	3
ELCT209	Nutrition	15	1	0	1	4	5	75	1	3
ELCT210	Neuroscience	15	1	0	1	4	5	75	1	3
ELCT211	Application Of Interactive Computed Tomography In Dentistry	15	1	0	1	4	5	75	1	3
ELCT212	Experimental Animal Model	15	1	0	1	4	5	75	1	3
ELCT213	Psychology Of The Children	15	1	0	1	4	5	75	1	3
ELCT214	Technology In Oral Diagnosis Modern Emerging	15	1	0	1	4	5	75	1	3
ELCT215	Oral Health Education And Preventive Dentistry	15	1	0	1	4	5	75	1	3
ELCT216	Geriatric Dentistry	15	1	0	1	4	5	75	1	3

Code	Title	weeks	Didactic	Practical	Contact	Self study	Work load	SWL	Credit hours	Credit points
ELECT301	Biomaterial/tissue interface and biodegradation	15	2	0	2	4	6	90	2	3
ELECT302	Curriculum Development	15	1	0	1	4	5	75	1	3
ELECT303	Teaching and learning strategies	15	1	0	1	4	5	75	1	3
ELECT304	Fundamentals of molecular biology	15	2	0	2	4	6	90	2	3
ELECT305	Critical thinking	15	1	0	1	4	5	75	1	3
OPER1002	Tissue engineering in restorative dentistry	15	4	0	4	4	8	120	4	4

Students' assessment:

Methods of assessments:
1. Written Exam
2. Clinical Exam
3. Oral Exam
4. Log Book
5. Assignments and seminars
6. Thesis defense