

Faculty of

Dentistry

Faculty of Dentistry

Departments

Oral Pathology

Oral Biology includes Descriptive Dental Anatomy and Oral Histology

Dental Biomaterials

Operative Dentistry

Endodontics

Prosthodontics Includes Fixed and Removable Prosthodontics & Occlusion

Oral Medicine and Periodontology Includes Diagnosis and Dental Radiology

Oral and Maxillofacial Surgery

Pediatric and Community Dentistry

Orthodontics

History

The Faculty of Dentistry was found in 1995. Since establishment, ten academic departments has been included, thus ensuring quality and student focused education.

The Faculty of Dentistry implements the latest techniques in dental education to serve students seeking an education and training of a high caliber.

In the year 2000, the Faculty expanded its dental curriculum to incorporate postgraduate education in all ten departments including Diploma, Master Degrees and PhD Degrees, thus providing the Lebanese community with highly qualified dental specialists, as well as future Faculty staff.

The Credit Hour system was adopted in 2005, thereby offering students a more adaptable and responsive program of study that extends over a 10 semester period assuring a better career in clinical dentistry and promoting interaction between dentists and dental health professionals.

Vision

The Faculty of Dentistry envisions itself a leading institution among all reputable dental schools all over the world in terms of dental education; Research and patient care.

Mission

- Developing principled, skilled and compassionate practitioners and leaders in oral health care (competent health care professionals)
- Developing exemplary clinicians, educators and scientists
- Training the dentists who will become an integral part of the multidisciplinary team of health care professionals that will satisfy the needs of the community
- Delivering and promoting high quality oral health services
- Serving as a leader in health professions education
- Seeking innovations in science, education and health care delivery
- Expanding the body of knowledge about oral and related diseases
- Fostering optimal clinical effectiveness of dental surgery through professional education
- Establishment of standards for quality assurance and professional training

- Developing evidence - based standards, guidelines, and recommendations relative to the clinical utilization of innovative treatment techniques
- Enhancing patient care and to improve the quality dental practice
- Ensuring state - of - the - art application of dental surgery through training and accreditation
- Supporting coordinated research efforts to promote further development and application of dental therapy, and to investigate accuracy, effectiveness, and cost - effectiveness in oral diagnosis

Postgraduate Programs

Offered Degrees

Diplomas

The Faculty of Dentistry offers Diplomas in the following specialties:

- Fixed Prosthodontics
- Removable Prosthodontics
- Oral Surgery
- Pediatric Dentistry
- Periodontology
- Restorative Dentistry
- Endodontics
- Fixed and Removable Prosthodontics
- Orthodontics
- Dental Implantology

MA Degrees

The Faculty of Dentistry offers Master Degree (M.Sc. D.) in the following specialties:

- Fixed Prosthodontics
- Removable Prosthodontics
- Oral Surgery
- Pediatric Dentistry
- Periodontology
- Restorative Dentistry
- Endodontics
- Fixed and Removable Prosthodontics
- Orthodontics
- Community Dentistry
- Dental Biomaterials
- Oral Biology
- Advanced Oral Pathology

PhD Degrees

The Faculty of Dentistry offers the Doctorate degree in the following fields:

A. Doctor of Science in Dentistry (D.Sc.D) in one of the following clinical fields:

- Fixed / Removable Prosthodontics
- Orthodontics
- Oral Surgery
- Pediatric Dentistry
- Periodontology
- Restorative Dentistry
- Endodontics

B. Doctor of Philosophy (PhD) in one of the following Fundamental Sciences:

- Advanced Oral Pathology
- Oral Biology
- Dental Biomaterials
- Community Dentistry

Program Description

Diplomas

The Diploma requirements for all specializations, except for Fixed / Removable Prosthodontics, Orthodontics and Dental Implantology, consist of 40 credit hours taken as follows:

- Mandatory Courses - 34 Cr.
- Departmental Elective Courses - 6 Cr.

The Diploma requirements for Fixed / Removable Prosthodontics and Orthodontics consist of 60 credit hours taken as follows:

- Mandatory Courses - 50 Cr.
- Departmental Elective Courses - 10 Cr.

The Diploma of Dental Implantology usually follows successful completion of a Diploma in either Oral Surgery or Periodontology and its requirements consist of 60 credit hours taken as follows:

- Mandatory Courses - 54 Cr.
- Departmental Elective Courses - 6 Cr.

The standard duration of study to obtain a Diploma is four semesters in all specialties, except for:

- Fixed / Removable Prosthodontics & Orthodontics which requires six semesters; and
- Dental implantology which requires 2 semesters in addition to 4 semesters in either Periodontology or Oral Surgery

MA of Science in Dentistry Degree

The Master of Science in Dentistry Degree requirements for all specializations, except for Fixed / Removable Prosthodontics and Orthodontics, consist of 46 credit hours taken as follows:

- Mandatory Courses - 34 Cr.
- Departmental Elective Courses - 6 Cr.

- Thesis - 6 Cr.

However, the Master of Science in Dentistry Degree requirements for Fixed / Removable Prosthodontics and Orthodontics consist of 66 credit hours taken as follows:

- Mandatory Courses - 50Cr.
- Departmental Elective Courses - 10 Cr.
- Thesis - 6 Cr.

The standard duration of study to obtain the Master of Science in Dentistry Degree is four semesters in all specialties except for Fixed / Removable Prosthodontics and Orthodontics which require six semesters.

PhD & D.Sc. Degrees

The PhD and D.Sc.D Degrees requirement for all specializations consists of 50 credit hours taken as follows:

- Scientific Seminar Courses - 12 Cr.
- Advanced Clinical Training - 16 Cr.
- Departmental Elective Courses - 12 Cr.
- Thesis - 10 Cr.

The standard duration of study to obtain the PhD and D.Sc.D Degrees is six semesters minimum.

Diploma Curricula

Diploma in Fixed Prosthodontics (40 credit hours)

First Semester			Cr.
ANAT	651	General Anatomy & Embryology	1
PHYL	651	Advanced General Physiology	1
ORBL	601	Oral Biology	2
OPTH	603	Advanced Oral Pathology	2
MICR	651	Microbiology, Immunology & Molecular Biology	1
PROS	601	Fixed Prosthodontics I	3
			10

Second Semester Cr.

PROS	602	Fixed Prosthodontics II	6
BIOM	602	Basic Biomaterials Science	1
COMD	602	Biostatistics & Research Methodology	1
		Elective ¹	2
			10

Third Semester Cr.

PROS	605	Fixed Prosthodontics III	6
BIOM	607	Advanced Biomaterials III	2
		Elective ¹	2
			10

Fourth Semester Cr.

PROS	606	Fixed Prosthodontics IV	6
PROS	692	Seminars in Fixed Prosthodontics	2
		Elective ¹	2
			10

¹Selected from the following Departmental Elective Courses: PHRM 651, PROS 652, PROS 653, PROS 654, PROS 655, PROS 656, PROS 657, PROS 658, PROS 659, PROS 660, PROS 661.

Diploma in Removable Prosthodontics (40 credit hours)

First Semester			Cr.
ANAT	651	General Anatomy & Embryology	1
PHYL	651	Advanced General Physiology	1
ORBL	601	Oral Biology	2
OPTH	603	Advanced Oral Pathology	2
MICR	651	Microbiology, Immunology & Molecular Biology	1
PROS	603	Removable Prosthodontics I	3
			10
Second Semester			Cr.
PROS	604	Removable Prosthodontics II	6
BIOM	602	Basic Biomaterials Science	1
COMD	602	Biostatistics & Research Methodology	1
		Elective ¹	2
			10

Third Semester			Cr.
PROS	607	Removable Prosthodontics III	6
BIOM	609	Advanced Biomaterials IV	2
		Elective ¹	2
			10
Fourth Semester			Cr.
PROS	608	Removable Prosthodontics IV	6
PROS	694	Seminars in Removable Prosthodontics	2
		Elective ¹	2
			10

¹Selected from the following Departmental Elective Courses: PHRM 651, PROS 651, PROS 652, PROS 653, PROS 654, PROS 655, PROS 656, PROS 657, PROS 658, PROS 659, PROS 660, PROS 661.

Diploma in Oral Surgery (40 credit hours)

First Semester			Cr.
ANAT	651	General Anatomy & Embryology	1
PHYL	651	Advanced General Physiology	1
ORBL	601	Oral Biology	2
OPTH	603	Advanced Oral Pathology	2
MICR	651	Microbiology, Immunology & Molecular Biology	1
OSGR	601	Oral Surgery I	3
			10
Second Semester			Cr.
OSGR	602	Oral Surgery II	6
OSGR	694	Seminars in Oral Surgery I	1
COMD	602	Biostatistics & Research Methodology	1
		Elective ¹	2
			10

Third Semester	Cr.
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OSGR	603	Oral Surgery III	6
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OSGR	695	Seminars in Oral Surgery II	2
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		Elective ¹	2
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Fourth Semester	Cr.
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OSGR	604	Oral Surgery IV	6
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OSGR	696	Seminars in Oral Surgery III	2
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		Elective ¹	2
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¹Selected from the following Departmental Elective Courses: PHRM 651, OSRG 651, OSRG 652, OSRG 653, OSRG 654, OSRG 655 Lasers in Oral Surgery, OSRG 656, OSRG 657, OSRG 658, OSRG 659, OSRG 660, OSRG 661, OSRG 662.

Diploma in Pediatric Dentistry (40 credit hours)

First Semester			Cr.
ANAT	651	General Anatomy & Embryology	1
PHYL	651	Advanced General Physiology	1
ORBL	601	Oral Biology	2
OPTH	603	Advanced Oral Pathology	2
MICR	651	Microbiology, Immunology & Molecular Biology	1
PEDI	601	Pediatric Dentistry I	3
			10
Second Semester			Cr.
PEDI	602	Pediatric Dentistry II	5
PEDT	602	General Pediatric	1
BIOM	602	Basic Biomaterials Science	1
COMD	602	Biostatistics & Research Methodology	1
		Elective ¹	2
			10

Third Semester			Cr.
PEDI	603	Pediatric Dentistry III	6
COMD	603	Community Dentistry	1
BIOM	611	Advanced Biomaterials V	1
		Elective ¹	2
			10
Fourth Semester			Cr.
PEDI	604	Pediatric Dentistry IV	6
PEDI	696	Seminars in Pediatric Dentistry	2
		Elective ¹	2
			10

¹Selected from the following Departmental Elective Courses: PHRM 651, PEDI 651, PEDI 652, PEDI 653, PEDI 654, PEDI 655, PEDI 656, PEDI 657, PEDI 658, PEDI 659, PEDI 660, PEDI 661.

Diploma in Periodontology (40 credit hours)

First Semester			Cr.
ANAT	651	General Anatomy & Embryology	1
PHYL	651	Advanced General Physiology	1
ORBL	601	Oral Biology	2
OPTH	603	Advanced Oral Pathology	2
MICR	651	Microbiology, Immunology & Molecular Biology	1
PERI	601	Periodontology I	3
			10
Second Semester			Cr.
PERI	602	Advanced Periodontology II	5
PERI	604	Oral Medicine & Diagnosis I	1
INTM	652	Advanced General Medicine & Dermatology	1
COMD	602	Biostatistics & Research Methodology	1
		Elective ¹	2
			10

Third Semester			Cr.
PERI	603	Advanced Periodontology III	6
PERI	695	Seminars in Periodontology I	2
		Elective ¹	2
			10
Fourth Semester			Cr.
PERI	606	Advanced Periodontology IV	6
PERI	696	Seminars in Periodontology II	2
		Elective ¹	2
			10

¹Selected from the following Departmental Elective Courses: PHRM 651, PERI 651, PERI 652, PERI 653, PERI 654, PERI 655, PERI 656, PERI 657, PERI 658, PERI 659.

Diploma in Restorative Dentistry (40 credit hours)

First Semester			Cr.
ANAT	651	General Anatomy & Embryology	1
PHYL	651	Advanced General Physiology	1
ORBL	601	Oral Biology	2
OPTH	603	Advanced Oral Pathology	2
MICR	651	Microbiology, Immunology & Molecular Biology	1
OPER	601	Restorative Dentistry I	3
			10
Second Semester			Cr.
OPER	602	Restorative Dentistry II	6
BIOM	602	Basic Biomaterials Science	1
COMD	602	Biostatistics & Research Methodology	1
		Elective ¹	2
			10

Third Semester			Cr.
OPER	603	Restorative Dentistry III	6
BIOM	603	Advanced Biomaterials I	2
		Elective ¹	2
			10
Fourth Semester			Cr.
OPER	604	Restorative Dentistry IV	6
OPER	696	Seminars in Restorative Dentistry	2
		Elective ¹	2
			10

¹Selected from the following Departmental Elective Courses: PHRM 651, REST 651, REST 652, REST 653, REST 654, REST 655, REST 656, REST 657, REST 658, REST 659, REST 660, REST 661, REST 662, REST 663, REST 664, REST 665, REST 666, REST 667, REST 668, REST 669, REST 670, REST 671.

Diploma in Endodontics (40 credit hours)

First Semester			Cr.
ANAT	651	General Anatomy & Embryology	1
PHYL	651	Advanced General Physiology	1
ORBL	601	Oral Biology	2
OPTH	603	Advanced Oral Pathology	2
MICR	651	Microbiology, Immunology & Molecular Biology	1
ENDO	601	Endodontics I	3
			10
Second Semester			Cr.
ENDO	602	Endodontics II	6
BIOM	602	Basic Biomaterials Science	1
COMD	602	Biostatistics & Research Methodology	1
		Elective ¹	2
			10

Third Semester			Cr.
ENDO	603	Endodontics III	6
BIOM	605	Advanced Biomaterials II	2
		Elective ¹	2
			10
Fourth Semester			Cr.
ENDO	604	Endodontics IV	6
ENDO	696	Seminars in Endodontics	2
		Elective ¹	2
			10

¹Selected from the following Departmental Elective Courses: PHRM 651, ENDO 651, ENDO 652, ENDO 653, ENDO 654, ENDO 655, ENDO 656, ENDO 657, ENDO 658, ENDO 659.

Diploma in Fixed / Removable Prosthodontics (60 credit hours)

First Semester Cr.

ANAT	651	General Anatomy & Embryology	1
PHYL	651	Advanced General Physiology	1
ORBL	601	Oral Biology	2
OPTH	603	Advanced Oral Pathology	2
MICR	651	Microbiology, Immunology & Molecular Biology	1
PROS	609	Fixed Prosthodontics FR I	2
PROS	611	Removable Prosthodontics FR I	2
			11

Second Semester Cr.

PROS	610	Fixed Prosthodontics FR II	3
PROS	612	Removable Prosthodontics FR II	3
BIOM	602	Basic Biomaterials Science	1
COMD	602	Biostatistics & Research Methodology	1
		Elective ¹	2
			10

Third Semester			Cr.
PROS	613	Fixed Prosthodontics FR III	3
PROS	615	Removable Prosthodontics FR III	3
BIOM	613	Advanced Biomaterials VI	1
		Elective ¹	2
			9
Fourth Semester			Cr.
PROS	614	Fixed Prosthodontics FR IV	4
PROS	616	Removable Prosthodontics FR IV	4
		Elective ¹	2
			10
Fifth Semester			Cr.
PROS	617	Fixed Prosthodontics FR V	3
PROS	619	Removable Prosthodontics FR V	3
PROS	695	Seminars in Fixed Prosthodontics FR I	1
PROS	697	Seminars in Removable Prosthodontics FR I	1
		Elective ¹	2
			10

Sixth Semester			Cr.
PROS	618	Fixed Prosthodontics FR VI	3
PROS	620	Removable Prosthodontics FR VI	3
PROS	696	Seminars in Fixed Prosthodontics FR II	1
PROS	698	Seminars in Removable Prosthodontics FR II	1
		Elective ¹	2
			10

¹Selected from the following Departmental Elective Courses: PHRM 651, PROS 651, PROS 652, PROS 653, PROS 654, PROS 655, PROS 656, PROS 657, PROS 658, PROS 659, PROS 660, PROS 661.

Diploma in Orthodontics (60 credit hours)

First Semester			Cr.
ANAT	651	General Anatomy & Embryology	1
PHYL	651	Advanced General Physiology	1
ORBL	601	Oral Biology	2
OPTH	603	Advanced Oral Pathology	2
MICR	651	Microbiology, Immunology & Molecular Biology	1
ORTD	601	Pre - Clinical Orthodontics	3
			10

Second Semester			Cr.
ORTD	602	Craniofacial Growth I	4
ORTD	604	Occlusion I	2
BIOM	602	Basic Biomaterials Science	1
COMD	602	Biostatistics & Research Methodology	1
		Elective ¹	2
			10

Third Semester			Cr.
ORTD	603	Occlusion II	2
ORTD	605	Craniofacial Growth II	2
ORTD	607	Clinical Orthodontics I	4
		Elective ¹	2
			10

Fourth Semester			Cr.
ORTD	606	Clinical Orthodontics II	4
ORTD	608	Cephalometrics	4
		Elective ¹	2
			10

Fifth Semester	Cr.
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ORTD	609	Clinical Orthodontics III	6
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ORTD	695	Seminars in Orthodontics I	2
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		Elective ¹	2
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Sixth Semester	Cr.
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ORTD	610	Advanced Clinical Orthodontics IV	6
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ORTD	696	Seminars in Orthodontics II	2
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		Elective ¹	2
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¹Selected from the following Departmental Elective Courses: PHRM 651, ORTD 651, ORTD 652, ORTD 653, ORTD 654, ORTD 655, ORTD 656, ORTD 657, ORTD 658, ORTD 659, ORTD 660, ORTD 661, ORTD 662, ORTD 663, ORTD 664, ORTD 665, ORTD 666, ORTD 667, ORTD 668.

Diploma in Dental Implantology (60 credit hours)

- (After completion of a Diploma in either Oral Surgery or Periodontology) -

	Cr.
Diploma of Oral Surgery or Periodontology	40

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Fifth Semester

Cr.

IMPE 601 Periodontology & Implantology I	2
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IMOS 601 Oral Surgery & Implantology I	4
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IMPR 601 Prosthodontics & Implantology I	2
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BIOM 615 Dental Biomaterials for Implantology	1
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IMPL 695 Seminars in Dental Implantology	1
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Sixth Semester

Cr.

IMPE 602 Periodontology & Implantology II	2
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IMOS 602 Oral Surgery & Implantology II	4
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IMPR 602 Prosthodontics & Implantology II	2
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IMPL 696 Seminars in Dental Implantology	2
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Master Curricula

Master of Science in Dentistry in Fixed Prosthodontics (46 credit hours)

First Semester Cr.

ANAT	651	General Anatomy & Embryology	1
PHYL	651	Advanced General Physiology	1
ORBL	601	Oral Biology	2
OPTH	603	Advanced Oral Pathology	2
MICR	651	Microbiology, Immunology & Molecular Biology	1
PROS	601	Fixed Prosthodontics I	3
			10

Second Semester Cr.

PROS	602	Fixed Prosthodontics II	6
BIOM	602	Basic Biomaterials Science	1
COMD	602	Biostatistics & Research Methodology	1
		Elective ¹	2
			10

Third Semester			Cr.
PROS	605	Fixed Prosthodontics III	6
BIOM	607	Advanced Biomaterials III	2
		Elective ¹	2
			10
Fourth Semester			Cr.
PROS	606	Fixed Prosthodontics IV	6
PROS	692	Seminars in Fixed Prosthodontics	2
		Elective ¹	2
			10
DENT	799	Thesis	6
			6

¹Selected from the following Departmental Elective Courses: PHRM 651, PROS 651, PROS 652, PROS 653, PROS 654, PROS 655, PROS 656, PROS 657, PROS 658, PROS 659, PROS 660, PROS 661.

Master of Science in Dentistry in Removable Prosthodontics (46 credit hours)

First Semester			Cr.
ANAT	651	General Anatomy & Embryology	1
PHYL	651	Advanced General Physiology	1
ORBL	601	Oral Biology	2
OPTH	603	Advanced Oral Pathology	2
MICR	651	Microbiology, Immunology & Molecular Biology	1
PROS	603	Removable Prosthodontics I	3
			10
Second Semester			Cr.
PROS	604	Removable Prosthodontics II	6
BIOM	602	Basic Biomaterials Science	1
COMD	602	Biostatistics & Research Methodology	1
		Elective ¹	2
			10

Third Semester			Cr.
PROS	607	Removable Prosthodontics III	6
BIOM	609	Advanced Biomaterials IV	2
		Elective ¹	2
			10
Fourth Semester			Cr.
PROS	608	Removable Prosthodontics IV	6
PROS	694	Seminars in Removable Prosthodontics	2
		Elective ¹	2
			10
DENT	799	Thesis	6
			6

¹Selected from the following Departmental Elective Courses: PHRM 651, PROS 651, PROS 652, PROS 653, PROS 654, PROS 655, PROS 656, PROS 657, PROS 658, PROS 659, PROS 660, PROS 661.

Master of Science in Dentistry in Oral Surgery (46 credit hours)

First Semester			Cr.
ANAT	651	General Anatomy & Embryology	1
PHYL	651	Advanced General Physiology	1
ORBL	601	Oral Biology	2
OPTH	603	Advanced Oral Pathology	2
MICR	651	Microbiology, Immunology & Molecular Biology	1
OSGR	601	Oral Surgery I	3
			10
Second Semester			Cr.
OSGR	602	Oral Surgery II	6
OSGR	694	Seminars in Oral Surgery I	1
COMD	602	Biostatistics & Research Methodology	1
		Elective ¹	2
			10

Third Semester			Cr.
OSGR	603	Oral Surgery III	6
OSGR	695	Seminars in Oral Surgery II	2
		Elective ¹	2
			10
Fourth Semester			Cr.
OSGR	604	Oral Surgery IV	6
OSGR	696	Seminars in Oral Surgery III	2
		Elective ¹	2
			10
DENT	799	Thesis	6
			6

¹Selected from the following Departmental Elective Courses: PHRM 651, OSRG 651, OSRG 652, OSRG 653, OSRG 654, OSRG 655, OSRG 656, OSRG 657, OSRG 658, OSRG 659, OSRG 660, OSRG 661, OSRG 662.

Master of Science in Dentistry in Pediatric Dentistry (46 credit hours)

First Semester Cr.

ANAT	651	General Anatomy & Embryology	1
PHYL	651	Advanced General Physiology	1
ORBL	601	Oral Biology	2
OPTH	603	Advanced Oral Pathology	2
MICR	651	Microbiology, Immunology & Molecular Biology	1
PEDI	601	Pediatric Dentistry I	3
			10

Second Semester Cr.

PEDI	602	Pediatric Dentistry II	5
PEDT	602	General Pediatric	1
BIOM	602	Basic Biomaterials Science	1
COMD	602	Biostatistics & Research Methodology	1
		Elective ¹	2
			10

Third Semester			Cr.
PEDI	603	Pediatric Dentistry III	6
COMD	603	Community Dentistry	1
BIOM	611	Advanced Biomaterials V	1
		Elective ¹	2
			10
Fourth Semester			Cr.
PEDI	604	Pediatric Dentistry IV	6
PEDI	696	Seminars in Pediatric Dentistry	2
		Elective ¹	2
			10
DENT	799	Thesis	6
			6

¹Selected from the following Departmental Elective Courses: PHRM 651, PEDI 651, PEDI 652, PEDI 653, PEDI 654, PEDI 655, PEDI 656, PEDI 657, PEDI 658, PEDI 659, PEDI 660, PEDI 661.

Master of Science in Dentistry in Periodontology (46 credit hours)

First Semester Cr.

ANAT	651	General Anatomy & Embryology	1
PHYL	651	Advanced General Physiology	1
ORBL	601	Oral Biology	2
OPTH	603	Advanced Oral Pathology	2
MICR	651	Microbiology, Immunology & Molecular Biology	1
PERI	601	Periodontology I	3
			10

Second Semester Cr.

PERI	602	Advanced Periodontology II	5
PERI	604	Oral Medicine & Diagnosis I	1
INTM	652	Advanced General Medicine & Dermatology	1
COMD	602	Biostatistics & Research Methodology	1
		Elective ¹	2
			10

Third Semester			Cr.
PERI	603	Advanced Periodontology III	6
PERI	695	Seminars in Periodontology I	2
		Elective ¹	2
			10
Fourth Semester			Cr.
PERI	606	Advanced Periodontology IV	6
PERI	696	Seminars in Periodontology II	2
		Elective ¹	2
			10
DENT	799	Thesis	6
			6

¹Selected from the following Departmental Elective Courses: PHRM 651, PERI 651, PERI 652, PERI 653, PERI 654, PERI 655, PERI 656, PERI 657, PERI 658, PERI 659.

Master of Science in Dentistry in Restorative Dentistry (46 credit hours)

First Semester			Cr.
ANAT	651	General Anatomy & Embryology	1
PHYL	651	Advanced General Physiology	1
ORBL	601	Oral Biology	2
OPTH	603	Advanced Oral Pathology	2
MICR	651	Microbiology, Immunology & Molecular Biology	1
OPER	601	Restorative Dentistry I	3
			10
Second Semester			Cr.
OPER	602	Restorative Dentistry II	6
BIOM	602	Basic Biomaterials Science	1
COMD	602	Biostatistics & Research Methodology	1
		Elective ¹	2
			10

Third Semester			Cr.
OPER	603	Restorative Dentistry III	6
BIOM	603	Advanced Biomaterials I	2
		Elective ¹	2
			10
Fourth Semester			Cr.
OPER	604	Restorative Dentistry IV	6
OPER	696	Seminars in Restorative Dentistry	2
		Elective ¹	2
			10
DENT	799	Thesis	6
			6

¹Selected from the following Departmental Elective Courses: PHRM 651, REST 651, REST 652, REST 653, REST 654, REST 655, REST 656, REST 657, REST 658, REST 659, REST 660, REST 661, REST 662, REST 663, REST 664, RES 665, REST 666, REST 667, REST 668, REST 669, REST 670, REST 671.

Master of Science in Dentistry in Endodontics (46 credit hours)

First Semester			Cr.
ANAT	651	General Anatomy & Embryology	1
PHYL	651	Advanced General Physiology	1
ORBL	601	Oral Biology	2
OPTH	603	Advanced Oral Pathology	2
MICR	651	Microbiology, Immunology & Molecular Biology	1
ENDO	601	Endodontics I	3
			10
Second Semester			Cr.
ENDO	602	Endodontics II	6
BIOM	602	Basic Biomaterials Science	1
COMD	602	Biostatistics & Research Methodology	1
		Elective ¹	2
			10

Third Semester			Cr.
ENDO	603	Endodontics III	6
BIOM	605	Advanced Biomaterials II	2
		Elective ¹	2
			10
Fourth Semester			Cr.
ENDO	604	Endodontics IV	6
ENDO	696	Seminars in Endodontics	2
		Elective ¹	2
			10
DENT	799	Thesis	6
			6

¹Selected from the following Departmental Elective Courses: PHRM 651, ENDO 651, ENDO 652, ENDO 653, ENDO 654, ENDO 655, ENDO 656, ENDO 657, ENDO 658, ENDO 659.

Master of Science in Dentistry in Fixed / Removable Prosthodontics (66 credit hours)

First Semester Cr.

ANAT	651	General Anatomy & Embryology	1
PHYL	651	Advanced General Physiology	1
ORBL	601	Oral Biology	2
OPTH	603	Advanced Oral Pathology	2
MICR	651	Microbiology, Immunology & Molecular Biology	1
PROS	609	Fixed Prosthodontics FR.I	2
PROS	611	Removable Prosthodontics FR.I	2
			11

Second Semester Cr.

PROS	610	Fixed Prosthodontics FR II	3
PROS	612	Removable Prosthodontics FR II	3
BIOM	602	Basic Biomaterials Science	1
COMD	602	Biostatistics & Research Methodology	1
		Elective ¹	2
			10

Third Semester			Cr.
PROS	613	Fixed Prosthodontics FR III	3
PROS	615	Removable Prosthodontics FR III	3
BIOM	613	Advanced Biomaterials VI	1
		Elective ¹	2
			9
Fourth Semester			Cr.
PROS	614	Fixed Prosthodontics FR IV	4
PROS	616	Removable Prosthodontics FR IV	4
		Elective ¹	2
			10
Fifth Semester			Cr.
PROS	617	Fixed Prosthodontics FR V	3
PROS	619	Removable Prosthodontics FR V	3
PROS	695	Seminars in Fixed Prosthodontics FR I	1
PROS	697	Seminars in Removable Prosthodontics FR I	1
		Elective ¹	2
			10

Sixth Semester			Cr.
PROS	618	Fixed Prosthodontics FR VI	3
PROS	620	Removable Prosthodontics FR VI	3
PROS	696	Seminars in Fixed Prosthodontics FR II	1
PROS	698	Seminars in Removable Prosthodontics FR II	1
		Elective ¹	2
			10
DENT	799	Thesis	6
			6

¹Selected from the following Departmental Elective Courses: PHRM 651, PROS 651, PROS 652, PROS 653, PROS 654, PROS 655, PROS 656, PROS 657, PROS 658, PROS 659, PROS 660, PROS 661.

Master of Science in Dentistry in Orthodontics (66 credit hours)

First Semester			Cr.
ANAT	651	General Anatomy & Embryology	1
PHYL	651	Advanced General Physiology	1
ORBL	601	Oral Biology	2
OPTH	603	Advanced Oral Pathology	2
MICR	651	Microbiology, Immunology & Molecular Biology	1
ORTD	601	Pre - Clinical Orthodontics	3
			10

Second Semester Cr.

ORTD	602	Craniofacial Growth I	4
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ORTD	604	Occlusion I	2
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BIOM	602	Basic Biomaterials Science	1
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COMD	602	Biostatistics & Research Methodology	1
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		Elective ¹	2
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			10
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Third Semester Cr.

ORTD	603	Occlusion II	2
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ORTD	605	Craniofacial Growth II	2
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ORTD	607	Advanced Clinical Orthodontics I	4
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		Elective ¹	2
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Fourth Semester Cr.

ORTD	606	Advanced Clinical Orthodontics II	4
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ORTD	608	Cephalometrics	4
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		Elective ¹	2
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			10
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Fifth Semester Cr.

ORTD	609	Advanced Clinical Orthodontics III	6
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ORTD	695	Seminars in Orthodontics I	2
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		Elective ¹	2
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Sixth Semester Cr.

ORTD	610	Advanced Clinical Orthodontics IV	6
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ORTD	696	Seminars in Orthodontics II	2
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		Elective ¹	2
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DENT	799	Thesis	6
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¹Selected from the following Departmental Elective Courses: ORTD 651, ORTD 652, ORTD 653, ORTD 654, ORTD 655, ORTD 656, ORTD 657, ORTD 658, ORTD 659, ORTD 660, ORTD 661, ORTD 662, ORTD 663, ORTD 664, ORTD 665, ORTD 666, ORTD 667, ORTD 668.

Master of Science in Dentistry in Community Dentistry (46 credit hours)

First Semester			Cr.
ANAT	651	General Anatomy & Embryology	1
PHYL	651	Advanced General Physiology	1
ORBL	601	Oral Biology	2
OPTH	603	Advanced Oral Pathology	2
MICR	651	Microbiology, Immunology & Molecular Biology	1
COMD	601	Advanced Community Dentistry	3
			10
Second Semester			Cr.
COMD	702	Epidemiology I	2
COMD	704	Preventive Dentistry I	3
COMD	706	Dental Health Education I	2
COMD	602	Biostatistics & Research Methodology	1
		Elective ¹	2
			10

Third Semester			Cr.
COMD	705	Epidemiology II	2
COMD	707	Preventive Dentistry II	2
COMD	709	Dental Health Education II	2
COMD	711	Biostatistics	2
		Elective ¹	2
			10
Fourth Semester			Cr.
COMD	710	Preventive Dentistry III	2
COMD	712	Dental Health Education III	2
COMD	714	Research Methodology	1
COMD	796	Seminars in Community Dentistry	2
		Elective ¹	3
			10
DENT	799	Thesis	6
			6

¹Selected from the following Departmental Elective Courses: PHRM 651, COMD 751, COMD 752, COMD 753, COMD 754, COMD 755, COMD 756, COMD 757.

Master of Science in Dentistry in Dental Biomaterials (46 credit hours)

First Semester			Cr.
ANAT	651	General Anatomy & Embryology	1
PHYL	651	Advanced General Physiology	1
ORBL	601	Oral Biology	2
OPTH	603	Advanced Oral Pathology	2
MICR	651	Microbiology, Immunology & Molecular Biology	1
MATH	101	Calculus & Analytical Geometry I	3
			10
Second Semester			Cr.
BIOM	702	Principles of Materials Science	2
BIOM	712	Physical Metallurgy	1
CHEM	702	Chemistry	2
PHYS	702	Physics	2
COMD	602	Biostatistics & Research Methodology	1
		Elective ¹	2
			10

Third Semester			Cr.
BIOM	703	Metallurgy	1
BIOM	705	Polymers	1
BIOM	707	Ceramics	2
BIOM	709	Applied Dental Materials I	4
		Elective ¹	2
			10
Fourth Semester			Cr.
BIOM	704	Applied Dental Materials II	4
BIOM	706	Bio - Mechanics	2
BIOM	708	Phase Diagram	1
BIOM	710	Corrosion	1
		Elective ¹	2
			10
DENT	799	Thesis	6
			6

¹Selected from the following Departmental Elective Courses: PHRM 651, REST 651, REST 652, REST 653, REST 654, REST 655, REST 656, REST 657, REST 658, REST 659, REST 660, REST 661, REST 662, REST 663, REST 664, RES 665, REST 666, REST 667, REST 668, REST 669, REST 670, REST 671.

Master of Science in Dentistry in Oral Biology (46 credit hours)

First Semester			Cr.
ANAT	651	General Anatomy & Embryology	1
PHYL	651	Advanced General Physiology	1
OPTH	603	Advanced Oral Pathology	2
MICR	651	Microbiology, Immunology & Molecular Biology	1
ORBL	701	Oral Biology I	3
		Elective ¹	2
			10
Second Semester			Cr.
ORBL	702	Oral Biology II	3
MICA	706	General Histology I	2
MORP	702	Tooth Morphology I	2
COMD	602	Biostatistics & Research Methodology	1
		Elective ¹	2
			10

Third Semester Cr.

ORBL	703	Oral Biology III	4
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MICA	707	General Histology II	2
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MORP	703	Tooth Morphology II	2
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		Elective ¹	2
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Fourth Semester Cr.

ORBL	704	Oral Biology IV	4
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MICR	752	Immunology	2
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MICR	754	Molecular Biology	2
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		Elective ¹	2
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DENT	799	Thesis	6
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¹Selected from Departmental Elective Courses: ORBL 651, ORBL 752, ORBL 753, ORBL 754, ORBL 755, ORBL 756, ORBL 757.

Master of Science in Dentistry in Oral Pathology (46 credit hours)

First Semester			Cr.
ANAT	651	General Anatomy & Embryology	1
PHYL	651	Advanced General Physiology	1
ORBL	601	Oral Biology	2
MICR	651	Microbiology, Immunology & Molecular Biology	1
OPTH	701	Advanced Oral Pathology I	3
		Elective ¹	2
			10
Second Semester			Cr.
OPTH	702	Advanced Oral Pathology II	2
PATH	752	General Pathology I	2
MICA	706	General Histology I	2
ORBL	706	Genetics I	1
COMD	602	Biostatistics & Research Methodology	1
		Elective ¹	2
			10

Third Semester Cr.

OPTH	703	Advanced Oral Pathology III	3
PATH	753	Advanced General Pathology I	2
MICA	707	General Histology II	2
ORBL	707	Genetics II	1
		Elective ¹	2
			10

Fourth Semester Cr.

OPTH	704	Advanced Oral Pathology IV	4
MICR	752	Immunology	2
MICR	754	Molecular Biology	2
		Elective ¹	2
			10
DENT	799	Thesis	6
			6

¹Selected from Departmental Elective Courses: OPTH 651, OPTH 752, OPTH 753, OPTH 754, OPTH 755.

Doctor of Science in Dentistry (D.Sc.D) in:

Fixed Prosthodontics, Removable Prosthodontics, Oral Surgery, Pediatric Dentistry, Periodontics, Restorative Dentistry, Endodontics, Fixed / Removable Prosthodontics, Orthodontics.

Doctor of Philosophy (PhD) in:

Dental Biomaterials, Oral Pathology, Oral Biology, & Community Dentistry (50 credit hours)

Courses	Cr.
Elective(Departmental) ¹	12
Scientific Seminars Courses	12
	24
Clinical Training	Cr.
Advanced Clinical Training	16
	16
DENT 899 Thesis	10
	10

¹Specialized Elective Courses are selected according to the field of specialization.

Mandatory Courses

BIOM 602 - Basic Biomaterials Science (1 Cr. : 1 Lec : 0 Prac)

Classification of materials, physical and mechanical properties, polymer, ceramics, metals and alloys, phase diagrams, structure of solids, materials imperfections, corrosion, surface properties of materials, adhesion in dentistry. Bracket Industry and Design, Metal Versus Esthetic Brackets, Wire Metallurgy and Mechanical Properties, Orthodontic Equipments and Instruments, Biomaterials in Clinical Use.

BIOM 603 - Advanced Biomaterials I (2 Cr. : 2 Lec : 0 Prac)

Dental amalgams, dental cements, restorative casting alloys, cavity liners and varnishes, composite filling materials, glass ionomer restorative materials.

BIOM 605 - Advanced Biomaterials II (2 Cr. : 2 Lec : 0 Prac)

Dental cements, dental restorative resins, dental amalgams, root canal filling materials, dental endodontic instruments, stainless steel, titanium alloys.

BIOM 607 - Advanced Biomaterials III (2 Cr. : 2 Lec : 0 Prac)

Biomechanical considerations and Biomaterials of Dental Implants.

BIOM 615 - Dental Biomaterials for Implantology (1 Cr. : 1 Lec : 0 Prac)

Impression materials, model and die materials, dental casting alloys, post and core materials, dental cements, dental investment materials, investing and casting techniques.

BIOM 609 - Advanced Biomaterials IV (2 Cr. : 2 Lec : 0 Prac)

Impression materials, model and die materials, metallic and non - metallic denture base materials, tissue conditioners and soft denture liners.

BIOM 611 - Advanced Biomaterials V (1 Cr. : 1 Lec : 0 Prac)

Impression materials, dental amalgams, dental cements, composite resins, pulp capping materials, stainless steel, sealants, model and die materials.

BIOM 613 - Advanced Biomaterials VI (1 Cr. : 1 Lec : 0 Prac)

Impression materials, model and die materials, dental casting alloys, post and core materials, dental cements, dental investment materials, investing and casting techniques, metallic and non - metallic denture base materials, tissue conditioners and soft liners.

BIOM 702 - Principles of Materials Science (2 Cr. : 2 Lec : 0 Prac)

Classification of matters, Atomic and electronic structure of elements, General properties of metals, ceramics, and polymers, Physical and mechanical properties of materials, Materials degradation in different environments, Introduction to phase diagram, Surface properties and adhesion.

BIOM 703 - Metallurgy (1 Cr. : 1 Lec : 0 Prac)

Properties of metals and alloys, Crystal structure of metals, Phase transformation in metals, Metal microstructure, Unary, binary and ternary phase diagrams, Crystal defects in metals, Diffusion.

BIOM 704 - Applied Dental Materials II (4 Cr. : 2 Lec : 2 Prac)

Restorative casting alloys, Types of dental ceramics, Metal ceramic restorations, Provisional restorative materials, Dental cements, impression materials, gypsum products, and dental polymers (seminars).

BIOM 705 - Polymers (1 Cr. : 1 Lec : 0 Prac)

Classification of polymers, Structure of different types of polymers, Polymerization processes, Characteristic properties, Polymer degradation, Different methods of polymer processing.

BIOM 706 - BIO - Mechanics (2 Cr. : 2 Lec : 0 Prac)

Principles of mechanics, Structure of human skeleton, Physical and mechanical properties of human tissues, Introduction to photo - elastic stress analyses, Introduction to finite element analyses.

BIOM 707 - Ceramics (2 Cr. : 2 Lec : 0 Prac)

General properties of ceramics, Ceramics versus glass, Ceramic microstructure, Mechanical, properties of ceramics, Methods of manufacturing ceramic objects, Phase diagrams of some ceramic compounds.

BIOM 708 - Phase Diagram (1 Cr. : 1 Lec : 0 Prac)

Solidification process, Time temperature diagrams, Unary phase diagram, Binary phase diagram, Principles of ternary phase diagrams, Gibbs phase rule, Types of phase transformation.

BIOM 709 - Applied Dental Materials I (4 Cr. : 2 Lec : 2 Prac)

Introduction to dental materials, Oral environment and patient consideration, Physical properties of dental materials, General handling and safety, Principles of bonding, Direct and indirect esthetic, restorative materials, Preventive and bleaching materials, Abrasion, finishing, and polishing.

BIOM 710 - Corrosion (1 Cr.)

The scope and language of corrosion. Introduction to corrosion. Corrosion - Related chemistry and electrochemistry. Atmospheric Corrosion. Principles of Cathodic Protection. Corrosion by soils. Corrosion by water and steam. Localized corrosion. Fundamentals of inhibitors. Stress corrosion. Metallurgical factors affecting corrosion. Alloy behavior at high temperatures. Coating for corrosion protection. Corrosion testing. Materials for corrosive environments. Analysis and correction of corrosion failures.

BIOM 712 - Physical Metallurgy (1 Cr. : 1 Lec : 0 Prac)

Structure of Perfect Solid. Structural Imperfection. Point Defects, Line Defects and Area Defects. Diffusion

COMD 601 - Advanced Community Dentistry (3 Cr. : 2 Lec : 1 Prac)

Fluoride: Occurrence in environment, metabolism, acquisition of fluoride by teeth, excretion, mechanism of action, toxicology fluoride, method of providing fluoride (systemic and topical).

COMD 602 - Biostatistics & Research Methodology (1 Cr. : 1 Lec : 0 Prac)

Introduction to the course, definitions, Characteristics of data and Collection of data, Sampling (Types of sample, Methods of sample), Essentials for research design (Types of research study, Components of research protocol), Tabular and graphical Presentation of data (Frequency distribution tables, Contingency tables, Bar - chart, Histogram, Frequency polygon and pie - chart), Mathematical presentation of data: Measures of central tendency :Mean, Median, Mode; Measures of variation: Range, Standard deviation, Standard of error, CO - variance, Normal distribution Curve, Hypotheses Formulation, Tests of Hypotheses and significance (Parametric tests): Z test, 't' tests, Correlation test r - test, Analysis of variance F - test, Chi - square test. Non - Parametric tests.

COMD 603 - Community Dentistry (1 Cr. : 1 Lec : 0 Prac)

Fluoride: Occurrence in environment, metabolism, acquisition of fluoride by teeth, excretion, mechanism of action, toxicology fluoride, method of providing fluoride (systemic and topical). Fissure sealant and preventive resin restorations, indications contraindications, application, failures. Prevention of dental caries: At home, at office, on community level. Prevention of periodontal diseases: At home, at office, on community level. Dental health education: Principles, methods (direct and indirect), barriers to health education.

COMD 702 - Epidemiology I (2 Cr. : 1 Lec : 2 Prac)

Introduction, principles and practice of public health, primary health care approach, Society and oral health care, Health needs assessment, Basic principles and methods of oral epidemiology, Public health aspects of oral diseases and disorders.

COMD 704 - Preventive Dentistry I (3 Cr. : 1 Lec : 2 Prac)

Fissure sealant and preventive resin restorations, Indications contra - indications, Application, Failures.

COMD 705 - Epidemiology II (2 Cr. : 1 Lec : 2 Prac)

Community based strategies for preventing dental caries, Trends in oral health, Principles in health economics, Principles of oral health promotion, Nutrition, The principle of organization and models of delivery of oral health care.

COMD 706 - Dental Health Education I (2 Cr. : 1 Lec : 3 Prac)

General principles of health education, Learning process as applied to dental health education, Dental disease and society.

COMD 707 - Preventive Dentistry II (2 Cr. : 1 Lec : 1 Prac)

Prevention of dental caries: At home, at office, on community level. Prevention of periodontal diseases: At home, at office, on community level.

COMD 709 - Dental Health Education II (2 Cr. : 1 Lec : 2 Prac)

The elementary school child, The adolescent, Dental health in adult.

COMD 712 - Dental Health Education III (2 Cr. : 1 Lec : 3 Prac)

The medically compromised, Dental health education for the elderly, Development of dental health education, Problems, Legal consideration for the dental health education.

COMD 710 - Preventive Dentistry III (2 Cr. : 1 Lec : 1 Prac)

Dental health education: Principles, methods (direct and indirect), barriers to health education.

COMD 796 - Seminars in Community Dentistry***DENT 799 - Thesis******DENT 899 - Thesis******ENDO 601 - Endodontics I (3 Cr. : 2 Lec : 1 Prac)***

Introduction to advanced endodontics, Pain Control, Tooth Morphology, Anatomy of the pulp, Pulp Biology, Histopathology, Physiology. Canal length determination, Vertical root fractures. Advanced instrumentation techniques, Pulp capping and pulpotomies. Inter - appointment medicaments and temporary fillings, Obturation, Prognosis of non - surgical endodontic treatment, Restoring endodontically treated teeth, Diagnosis of non - odontogenic pain, Focal infection, bacteremia, and anachoresis. Apexification and apexogenesis, Endodontic traumatology, Use of antibiotics and analgesics. Endodontic microscopy. Microbiology in Endodontics. Pulpal Pathology: Etiology and Prevention.

ENDO 602 - Endodontics II (6 Cr. : 3 Lec : 3 Prac)

Peri - radicular Lesions, Root resorption, Endodontic radiography, Endodontic diagnostic procedures, Differential Diagnosis and Treatment of Dental Pain, Preparation for Endodontic Treatment, Endodontic Cavity Preparation.

ENDO 603 - Endodontics III (6 Cr. : 3 Lec : 3 Prac)

Obturation of the Radicular Space Endodontic Surgery, Endodontic periodontal relationship, Outcome of Endodontic Treatment and Re - Treatment, Endodontic Mishaps: Their Detection, Correction and Prevention, Endodontic emergency treatment (non - traumatic emergencies).

ENDO 604 - Endodontics IV (6 Cr. : 3 Lec : 3 Prac)

Endodontic emergency treatment (traumatic emergencies), Tooth Discoloration and Bleaching of Non - Vital Teeth, Vital pulp therapy, Management of teeth with immature apices, Geriatric endodontics, Restoration of The Endodontically Treated Tooth, Nickel titanium rotary instrumentation, Ultrasonic endodontics.

ENDO 696 - Seminars in Endodontics

INTM 652 - Advanced General Medicine & Dermatology (1 Cr. : 1 Lec : 0 Prac)

Signs and symptoms in internal medicine: Bacterial endocarditis, hypertension, Ischaemic heart diseases, trigeminal neuralgia, headaches, lung abscess, Pneumonia, skin diseases and sexually transmitted diseases.

IMOS 601 - Oral Surgery & Implantology I (4 Cr. : 2 Lec : 2 Prac)

Biological Considerations for Osteointegration. Biologic aspects of dental implants, clinical aspects of dental implants, surgical aspects dental implants, different types of implant systems, maintenance of implants, update on implant diagnosis and treatment planning: Conventional diagnostic methods, radiography, pre - operative evaluation of patients.

IMOS 602 - Oral Surgery & Implantology II (4 Cr. : 2 Lec : 2 Prac)

Surgical Phase and Treatment Planning. Complications of dental implants. Final recommendations. Making use of embedded implants: Factors affecting duration, Factors affecting prognosis. Exposure surgery for embedded implants.

IMPE 601 - Periodontology & Implantology I (2 Cr. : 1 Lec : 1 Prac)

Oral implantology: Advanced implant surgery and bone grafting techniques, diagnosis and treatment of peri - implant complications. Introduction and rationale, patient selection, the role of radiography in patient selection, computerized tomography, correction and management of ailing implants, evaluating the success in implants.

IMPE 602 - Periodontology & Implantology II (2 Cr. : 1 Lec : 2 Prac)

Classification of soft and hard tissue defects. Grafting procedures, Classification, Techniques. Osteointegration. Growth factors. Implant periabutment tissues. Membrane barriers for implant surgery, types and functions. Guided bone regeneration for implant surgery. Peridental surgery: Flap procedures, types and techniques. Plastic periodontal surgery in implantology. Mucogingival surgery. Hard and soft tissue grafting for esthetic implant restoration. Maintenance management: Management, therapy, hygiene and recall. Implant related complications and failure.

IMPL 695 - Seminars in Dental Implantology***IMPL 696 - Seminars in Dental Implantology******IMPR 601 - Prosthodontics & Implantology I (2 Cr. : 1 Lec : 1 Prac)***

Prosthetic construction: Impression stage procedures, abutment fixation instructions, Instrumental guidelines.

IMPR 602 - Prosthodontics & Implantology II (2 Cr. : 1 Lec : 1 Prac)

Fabrication of work casts, implant tray construction. Clinical guidelines for transfer screw and abutments, restoration of partially edentulous jaws.

MORP 702 - Tooth Morphology I (2 Cr. : 1 Lec : 3 Prac)

Deciduous and permanent dental formula in human. Grouping of teeth, morphological and structural features, surfaces and ridges, division into thirds, line angles and point angles of the anterior and posterior teeth, measurement of the teeth, definitions. Chronology of deciduous and permanent teeth. Notations systems: I - Palmer notation system, II - the two digit system FDI system (Federation Dentaire International), III - the universal national system.

MORP 703 - Tooth Morphology II (2 Cr. : 1 Lec : 3 Prac)

The permanent maxillary molars. The permanent mandibular molars. The pulp cavities of the permanent teeth. Deciduous teeth. A geometric concept of crown outlines. Physiologic form of tooth and periodontium. Occlusion of permanent teeth.

OPER 601 - Restorative Dentistry I (3 Cr. : 2 Lec : 1 Prac)

Patient assessment, examination, diagnosis and treatment planning. Infection control. Cariology: Etiology, prevention and control. Biological considerations in restorative dentistry. Pain and pain control. Modification of different types of cavity preparation according to different restorative materials. Intermediary bases and liners. Dental cements and glass ionomer cement.

OPER 602 - Restorative Dentistry II (6 Cr. : 3 Lec : 3 Prac)

Direct anterior esthetic restorations: Anterior composite restorations, glass ionomer restorations. Posterior esthetic restorations: Posterior composite restorations, Posterior composite inlays, Ceramic inlays and onlays. CAD - CAM inlay system.

OPER 603 - Restorative Dentistry III (6 Cr. : 3 Lec : 3 Prac)

Diagnosis, causes and treatment of cervical lesions and hypersensitive dentine, adhesives in dentistry, diagnosis and treatment of deep carious lesions, management of large badly broken down teeth: Pin - retained and Post - retained amalgam, amalgam restorations, bonded amalgam restorations, direct gold restorations, cast restorations, conservative alterations of tooth contours and contacts.

OPER 604 - Restorative Dentistry IV (6 Cr. : 3 Lec : 3 Prac)

Occlusion and record transfer, failure of restorations. Conservative treatment for discoloured teeth. Bleaching treatments. Micro - abrasion and macro - abrasion. Esthetic veneer restorations. Acid etched resin bonded splints. Conservative bridges.

OPER 696 - Seminars in Restorative Dentistry***ORBL 601 - Oral Biology (2 Cr.)***

Development and growth of the teeth. Embryology: Maxilla, mandible and developmental anomalies. Epithelial - mesenchymal interactions during tooth development, formation of the permanent dentition. Enamel: Age and functional changes in enamel, development, repair of enamel. Dentin: Histology of dentin, types of dentin, dentinogenesis, innervation of dentin, age and functional changes. Pulp. Cementum: Types of cementum, structure, incremental lines.

Periodontal ligament: Functions of the periodontal ligament, clinical considerations. Oral Mucosa: Definition, functions and organization, clinical features, component tissues and glands, oral epithelium, lamina propria, blood supply, nerve supply, structural variations, development of the oral mucosa. Salivary Glands: Histology of the minor salivary glands. Bone and alveolar process: Bone histology, bone turnover <remodeling>, structure of the alveolar process. Eruption and shedding. Temporo - mandibular joint. Maxillary sinus & lymph drainage. Wound healing, repair & regeneration. Physiologic tooth forms protecting the periodontium: Proximal contact areas, Interproximal spaces, embrasures, labial and buccal contour at the cervical thirds and lingual contour at the middle thirds, curvatures of the cervical lines on the mesial and distal surfaces.

OPTH 603 - Advanced Oral Pathology (2 Cr.)

Introduction to Advanced Oral Pathology, developmental anomalies of teeth. Dental caries: Etiologic factors, Clinical features, microscopic features, immunology of dental caries. Pulp diseases: Classification and etiology of pulpitis, clinical and microscopic pictures, sequelae of pulp diseases. Periapical pathologic conditions. Cysts of oral and para oral region. Bone diseases. Salivary gland diseases. Developmental abnormalities of oral and para oral tissues. Viral, bacterial and mycotic diseases: Classification, etiology and pathogenesis, microbiologic factors, clinical features and differential diagnosis, microscopic features and management. Oral ulceration and vesiculo bullous lesions. Oral manifestations of AIDS: Hairy leukoplakia, Candidosis, Kaposi's sarcoma, AIDS - related periodontal diseases, non - Hodgkin's lymphoma. Metabolic and endocrinal disturbances. White lesions: White sponge nevus, reactive lesions, Lichen planus and lichenoid drug reaction, Hairy leukoplakia and Moniliasis, nicotinic stomatitis. Precancerous conditions and lesions. Etiology of oral cancer and Oncogenes. Salivary gland tumors: Benign tumors, Malignant tumors, Specific tumors. Odontogenic tumors. Non - Neoplastic inflammatory overgrowth of the oral mucosa. Non - Odontogenic tumors. Muscle tumors. Malignant lymphomas and leukemia. Nerve tissue tumors: Classification, clinical and microscopic features. Undifferentiated head and neck tumors. Oro - facial pain, Arterio - Venous Malformations, Diseases of TMJ, Forensic problems.

OPTH 701 - Advanced Oral Pathology I (3 Cr. : 2 Lec : 3 Prac)

Dental Caries. Pulp Diseases. Periapical Lesions & Osteomyelitis. Cysts of oral & Para - oral Tissues. Developmental Anomalies of teeth. Odontogenic tumors.

OPTH 702 - Advanced Oral Pathology II (2 Cr. : 1 Lec : 3 Prac)

White Lesions. Premalignant Lesions. Etiology of Oral Cancer. Non - Odontogenic Epithelial Tumors. Non - Odontogenic Mesenchymal Tumors. Non - Neoplastic inflammatory overgrowth of oral mucosa. Salivary gland disease. Salivary gland tumors.

OPTH 703 - Advanced Oral Pathology III (3 Cr. : 2 Lec : 3 Prac)

Developmental abnormalities of oral and para - oral tissues. Bone diseases. Metabolic and endocrinal disturbances. diseases. Metabolic and endocrinal disturbances. Viral - bacterial and fungal diseases. Pigmented oral lesions.

OPTH 704 - Advanced Oral Pathology IV (4 Cr. : 2 Lec : 3 Prac)

Oral Ulcerative conditions. Vesiculobullous Lesions. Oral manifestations of AIDS. Blood diseases. Forensic problems and advanced oral pathology.

ORBL 701 - Oral Biology I (3 Cr. : 2 Lec : 3 Prac)

Development and growth of the teeth .Enamel. Dentin. Pulp. Cementum. Periodontal ligaments. Embryology. Maxilla and mandible.

ORBL 702 - Oral Biology II (3 Cr. : 2 Lec : 3 Prac)

Oral mucosa. Salivary glands. Bone and alveolar process. Eruption and shedding. Temporo - mandibular joint. Maxillary sinus & lymph drainage. Wound healing repair & regeneration. Physiologic tooth forms protecting the periodontium.

ORBL 703 - Oral Biology III (4 Cr. : 3 Lec : 3 Prac)

Structure of dental and paradental tissues, ultrastructure and the composition of these tissues in relation to their function, basic guide - lines to relationship between molecular structure and function and the dynamic character of the cellular organelles, Ultrastructure of cell organelles, Cell junctions beside the ultrastructure surface of the dental and paradental tissues, Correlation of the structures of cell organelles, Cell signals and cell membrane with the molecular function and the introduction into the application of biotechnology.

ORBL 704 - Oral Biology IV (4 Cr. : 3 Lec : 3 Prac)

Principles of tissue engineering, extra cellular matrix, primary and permanent dentition, occlusion, physiologic importance of dental morphology and its relation to the periodontium and determine the age and sex of victims, predictable tissue healing of the implant, material concerning the osseointegration of the implant surface, basic histology and implant biocompatibility characteristics, experimental animals (handling, processing and the applications of the different techniques as histochemistry, immunohistochemistry and cytology).

ORBL 706 - Genetics I (1 Cr. : 1 Lec : 0 Prac)

Basic principles of classical and modern genetics with emphasis on the analysis of genetic material and genetic processes at the molecular level.

ORBL 706 - Genetics I (1 Cr. : 1 Lec : 0 Prac)

Nucleic acid structure (DNA and RNA), DNA is the Genetic Material, DNA replication, transcription, translation, post translation modification, isolation and purification of nucleic acids (DNA and RNA), isolation of genes (genomic library construction and screening, DNA library construction and screening, PCR library construction and screening), identification of the cloned genes (southern blotting, northern blotting, western blotting, south - western blotting - screening method), recent techniques in molecular biology (DNA - microarray, proteomics, metallomics, cellomics).

ORTD 601 - Pre - Clinical Orthodontics (3 Cr. : 1 Lec : 2 Prac)

Theory and Practice of Orthodontics, Orthodontic Appliances (attachments, wires, and auxiliaries), recent advances in wire technology, wire bending exercise, bonding and banding in orthodontics, force system and tissue reaction in orthodontics, edgewise typodont course.

ORTD 602 - Craniofacial Growth I (4 Cr. : 2 Lec : 2 Prac)

Cell and Molecular Biology, a brief review of the Embryology of the general human and stomato - gnathic systems, basic concepts of pre and post craniofacial growth and development functional anatomy of the head and neck. Dentofacial growth and development in 3 - Ds.

ORTD 603 - Occlusion II (2 Cr. : 1 Lec : 1 Prac)

Study cast analysis, classification of occlusion, angle's and supplementary classifications, the validity and limitations of classifications of occlusion, the prevalence of malocclusion, occlusal indices, skeletal and dento - alveolar abnormality in 3 - Ds. Static versus functional occlusion, 6 keys of andrews. Interocclusal splint therapy.

ORTD 604 - Occlusion I (2 Cr. : 1 Lec : 1 Prac)

Facial growth and occlusal development, normal and abnormal development of occlusion, etiology of malocclusion, review of the craniofacial malformation syndromes relevant to orthodontics.

ORTD 605 - Craniofacial Growth II (2 Cr. : 1 Lec : 1 Prac)

Bone physiology and calcium metabolism, ossification intramembranous and enchondral, theory of equilibrium and compensating mechanisms, Wolff's Law of bone (form and function), methods of studying growth and development, controlling factors and theories of craniofacial growth mechanisms.

ORTD 606 - Clinical Orthodontics II (4 Cr. : 2 Lec : 2 Prac)

Force system and tissue reaction, types and magnitude of forces generated by orthodontic appliances, theories of tooth movement, orthopedic versus orthodontic forces, orthodontic appliances and materials. Timing of orthodontic treatment, bjork's four phases of treatment to four phases of growth, treatment modalities (growth modification, camouflage, and orthognathic surgery).

ORTD 607 - Clinical Orthodontics I (4 Cr. : 2 Lec : 2 Prac)

Orthodontic case analysis, diagnostic procedures (data collection and interpretation), clinical evaluation of soft and hard tissues components, functional examination, radiographic examination, clinical value of photographs, problem listing, stating treatment objectives, formulating a treatment planning, extraction decision in orthodontics.

ORTD 608 - Cephalometrics (4 Cr. : 2 Lec : 2 Prac)

Anatomic considerations, radiographic source and hazards of irradiation, standardization of cephalometric radiography, how to obtain a good quality cephalogram? Validity and reliability of head films, landmarks identification and cephalometric tracing, diagnostic value of cephalometrics, cephalometric analyses currently used for diagnostic purposes.

ORTD 609 - Clinical Orthodontics III (6 Cr. : 3 Lec : 3 Prac)

Uses and limitations of removable orthodontic appliances, functional appliances and growth modification, screening devices as habit breakers, comprehensive orthodontic treatment with fixed appliances, early versus adult treatment, combined orthodontic orthosurgical correction of severe dentofacial deformities - interdisciplinary approach, skeletal anchorage (miniscrews and dental implants).

ORTD 610 - Clinical Orthodontics IV (6 Cr. : 3 Lec : 3 Prac)

Orthodontics - periodontics interrelationship, moving teeth with minimal attached gingiva, management of impacted teeth (surgical exposure and orthodontic treatment), preparing a case for orthosurgical correction, orthodontic management of cleft lip and palate cases, possible complications of orthodontic therapy. Retention and relapse after orthodontic treatment.

ORTD 695 - Seminars in Orthodontics I (2 Cr. : 2 Lec : 0 Prac)

Literature review of selected topics relevant to clinical cases. Short talk case presentation, case analysis and interpretation, sharing experiences with colleagues and staff members. Cases must include different treatment modalities and difficulties: Early correction of class II DIV1 malocclusion (phase I treatment), vertical correction of class II DIV2 in different age groups, palatal expansion to correct transverse problems (rapid versus slow), anchorage value of extra oral forces versus mini - implants.

ORTD 696 - Seminars in Orthodontics II (2 Cr. : 2 Lec : 0 Prac)

Literature review and case presentation of clinical cases: Early versus late correction of class III malocclusion, the optimal timing for bone graft in cleft alveolus, esthetic occlusal plane and lip teeth relationship.

OSRG 601 - Oral Surgery I (3 Cr. : 2 Lec : 1 Prac)

Anatomical consideration: Surgical anatomy, physiological consideration of the nerve supply of the orofacial region. Local anaesthesia: Definition of local anesthesia, definition of general anesthesia, pain and pain control. Pre - anaesthetic evaluation & premedication. Local anaesthetic solutions and vasoconstrictors. Types of local anaesthesia. Injection procedures & testing for anaesthesia, complications of local anaesthesia. Basic principles of oral and maxillofacial surgery: Pre - operative health status evaluation. Prevention and management of medical emergencies. Principles of surgery, development of surgical diagnosis, basic necessities for surgery, tissue handling. Wound repair, surgical significance of wound healing. Infection control in surgical practice.

OSRG 602 - Oral Surgery II (6 Cr. : 3 Lec : 3 Prac)

Transalveolar surgery elevators, principles, rules, classification and hazards of use of elevator. Removal of fractured roots, plans for removal of individual tooth - fractures. principles of management of impacted teeth: Indications, contra - indication, general causes and sequelae of impaction. Impacted mandibular third molar, maxillary third molar. Canine (classification, clinical, radiographic examination, surgical removal). Complications of teeth extraction (immediate, delayed). General complications of oral surgical procedures and office emergencies. Maxillary sinus involvement and its dental implications. Management of medically compromised patients in oral surgery.

OSRG 603 - Oral Surgery III (6 Cr. : 3 Lec : 3 Prac)

Principles of management and prevention of odontogenic infection, progression of odontogenic infection. Principles of therapy of odontogenic infection : Acute periapical infection & dentoalveolar abscess. Spread of infection to facial spaces, Ludwig>s angina. Antibiotics therapy: Mode of action, types and description. Osteomyelitis: Acute, chronic osteomyelitis and Garre>s osteomyelitis. Cysts of the Jaws: Definition, classification, clinical & radiographic examination, diagnosis and different modalities of treatment. Preprosthetic Surgery: Objective of pre - prosthetic surgery. Principles of oral implantology: Definition, classification, indications, contraindications, biological considerations for osseointegration, requirements of success for dental implants: Patient selection. Biomaterials for dental implants, pre - operative medical and dental evaluation of patient, surgical phase and treatment planning. Re - implantation and transplantation of teeth.

OSRG 604 - Oral Surgery IV (6 Cr. : 3 Lec : 3 Prac)

Surgical correction of dentofacial deformities protruding and receding Jaws: Cleft lip and palate, treatment of the cleft lip and palate. Oro - facial pain and tmj disorders. Affections of the salivary glands. Tumors of the oral cavity, benign and malignant tumors. Surgical management of oral benign and malignant tumors. Maxillo - facial trauma and injuries. Treatment of fracture mandible, treatment of fracture middle third of the facial skeleton.

OSGR 694 - Seminars in Oral Surgery I***OSGR 695 - Seminars in Oral Surgery II******OSGR 696 - Seminars in Oral Surgery III******PEDI 601 - Pediatric Dentistry I (3 Cr. : 2 Lec : 1 Prac)***

Child growth and development: Growth of maxilla and mandible, development of primary and permanent teeth, development of primary occlusion, occlusion in mixed dentition, dimensional changes in the dental arch. behavior management: Childhood development, child behavior pattern in dental clinic; Parental attitude, psychological approach management technique, reduction of maternal anxiety, management of infants and parents. Pharmacologic management of pain and anxiety: Conscious sedation, oral sedation: Narcotics, sedative, hypnotics, antiemetics - antihistamines, dissociative agents. Inhalation sedation: Mode of action, specification of device, application failures. Radiographic assessment graph: Types (extra and intra) and uses of radiograph. Diagnosis and treatment plan: Discussing clinical, radiographic and study model for preventive orthodontics. Space management: Causes and effects of premature loss of teeth.

PEDI 602 - Pediatric Dentistry II (5 Cr. : 2 Lec : 3 Prac)

Space maintainer: Definition, indications and contra indications, requirements, diagnostic guidelines, factors considered before planning for space maintainer, arch length analysis, classification, advantages and disadvantages, types and its modifications, care of appliances, appliances to regain space. Interceptive orthodontics: Definition: Oral habits: Effects, types (digital sucking, lip habits, mouth breathing, tongue thrust, clenching, postural habit) and treatment. Class I crowding treatment, problems in mixed dentition: Over retained primary teeth, delay eruption, ankylosis, ectopic eruption, supernumerary teeth. Cross - bite: Definition, types, classification, treatment. Diagnosis and correction of minor irregularities in the developing dentition.

PEDI 603 - Pediatric Dentistry III (6 Cr. : 3 Lec : 3 Prac)

Gingival and periodontal diseases: Types of gingivitis, early onset periodontitis, premature bone loss primary teeth. Pulp therapy for primary and young permanent teeth; Diagnostic considerations, pulp treatment procedures (indirect, direct pulp capping, pulpotomy, partial pulpotomy, partial pulpectomy , apexification, root canal filling) indications, contraindications, failures. Traumatic injuries: Epidemiology, etiology, ellis and modified ellis classification, diagnosis, treatment of fractured teeth (fragment restoration, stainless steel crown, composite, pulp therapy in involved pulp), and luxation injuries (concussion, subluxation, intrusion, extrusion, lateral luxation and avulsion), sequelae to dental trauma.

PEDI 604 - Pediatric Dentistry IV (6 Cr. : 3 Lec : 3 Prac)

Developmental anomalies: Odontoma, fusion of teeth, gemination, dens - in - dent, early exfoliation of primary teeth, acrodynia, enamel hypoplasia, inherited dentin defects, amelogenesis imperfecta, anodontia, hypodontia, ectodermal dysplasia, intrinsic discoloration, anomalies of the tongue, abnormal labial frenum. Early childhood caries: Definition, etiology, characteristic, prevention, treatment. Management of special pediatric patient: Mental, medical, physical handicapped. Oral surgery: Preoperative evaluation, tooth extraction and post operative care.

PEDI 696 - Seminars In Pediatric Dentistry***PERI 601 - Periodontology I (3 Cr. : 2 Lec : 1 Prac)***

Periodontal microbiology: Definition, classification, structure and composition of dental plaque. Dental calculus. Role of other predisposing factors in the etiology of periodontal disease. Microbial interactions with the host in periodontal diseases. Immunologic aspects of the microbial interaction with the host. Molecular biology of the host - microbe interaction in periodontal disease. Influence of systemic disease and disorders on the periodontium. Classifications of diseases and conditions affecting the periodontium. Extension of gingival inflammation. Clinical features of gingivitis. gingival enlargement. Acute gingival infections: Necrotizing Ulcerative gingivitis, desquamative gingivitis. Plaque control.

PERI 602 - Periodontology II (5 Cr. : 2 Lec : 3 Prac)

General principles of periodontal instrumentation. Scaling and root planning, periodontal response to external forces. The periodontal pocket. Periodontal abscess. Chronic periodontitis. Generalized aggressive periodontitis. Periodontitis as a manifestation of systemic diseases. Necrotizing Ulcerative periodontitis. Refractory periodontitis. Epidemiology, oral and periodontal manifestations.

PERI 603 - Advanced Periodontology III (6 Cr. : 3 Lec : 3 Prac)

Radiographic aids in the diagnosis of periodontal disease. Treatment plan. Phases of treatment plan. Rationale for periodontal treatment. Periodontal therapy in female patient. Periodontitis associated with systemic diseases. Treatment of acute gingival disease: Treatment of acute necrotizing Ulcerative gingivitis, pericoronitis and acute herpetic gingivostomatitis. Treatment of periodontal abscess: Acute periodontal abscess, gingival abscess, chronic periodontal abscess. Treatment of gingival enlargement. Surgical phase of periodontal therapy. Pocket elimination versus pocket maintenance. Methods of pocket therapy. General principles of periodontal surgery. Excisional New Attachment Procedures (ENAP). Gingivectomy technique. Chemotherapeutic agents and its role in periodontal therapy. Periodontal treatment of medically compromised patients.

PERI 604 - Oral Medicine & Diagnosis I (1 Cr. : 1 Lec : 0 Prac)

Rational procedures for diagnosis. pigmentation of the oral tissue. Ulcerative, vesicular and bullous lesions. Red and white lesions of the oral mucosa. Diseases of the tongue. Salivary gland diseases. Hematologic diseases. Bleeding and clotting disorders. Immunologic diseases. Diabetes mellitus. Endocrine diseases and dysfunction. Infection diseases. Abnormalities of teeth.

PERI 606 - Advanced Periodontology IV (6 Cr. : 3 Lec : 3 Prac)

Periodontal flap. Flap technique for pocket therapy. Osseous surgery. Treatment of furcation involvement. The periodontal - endodontic interrelationship. Periodontal plastic and esthetic surgery. The role of orthodontics as adjuncts to periodontal therapy. Occlusal evaluation and therapy in management of periodontal diseases. Periodontal - restorative interrelationship. Recent advances in surgical technology. Oral implantology. Periodontal microsurgery. Supportive periodontal treatment. Results of periodontal treatment.

PERI 695 - Seminars in Periodontology I***PERI 696 - Seminars in Periodontology II******PROS 601 - Fixed Prosthodontics I (3 Cr. : 2 Lec : 1 Prac)***

Diagnosis and treatment planning for replacement of partial loss of teeth: History taking and clinical examination, diagnostic casts and radiographs, diagnostic waxing up. Factors affecting the selection of type of restorations, effects of loss of teeth, decision to remove a tooth, consequences of tooth loss replacement, indications and contraindications for fixed partial dentures.

PROS 602 - Fixed Prosthodontics II (6 Cr. : 3 Lec : 3 Prac)

Types of conventional bridges and bridge design, basic principles of tooth preparation. Biologic, mechanical and esthetic considerations, principles of parallelism, retention and resistance, structural durability, marginal integrity. Post - insertion care and follow up periodic recall, oral hygiene, diet and saliva, dental caries control. Causes of failures of fixed partial dentures and treatment options, biologic causes, mechanical causes, esthetic causes. Removal of fixed partial dentures causes and techniques. Fixed partial dentures repairs.

PROS 603 - Removable Prosthodontics I (3 Cr. : 2 Lec : 1 Prac)

Introduction to removable prosthodontics, objectives and mechanism of denture wearing, anatomic considerations of the denture bearing area, nutrition and the denture - bearing tissues, anatomy and physiology of masticatory system, diagnosis and treatment planning of the edentulous patient, pre - prosthetic mouth preparation, residual ridge reduction: Terminology, classification and etiology, assessment of alveolar bone loss, prophylaxis, conservative approach or prosthetic consideration, surgical approach: Vestibular extension, ridge augmentation, implant prosthetics. The neutral zone concept: Definition, muscles involved in developing a neutral zone.

PROS 604 - Removable Prosthodontics II (6 Cr. : 3 Lec : 3 Prac)

Biologic considerations for impressions, impressions: Concepts and techniques, jaw relation records, articulators and interocclusal recording devices, selection and arrangement of teeth, complete denture try - in and insertion, Post - insertion changes and problems, relining and rebasing. Single denture: Terminology, objectives, classification, problems, prosthetic implications. Immediate denture: Terminology, advantages, disadvantages, indications, contraindications. Immediate denture. Diagnosis, treatment plan, patient's education, surgical approach, post - operative care. Overdentures: Rationale of overdenture, neuromuscular function of masticatory system, biological advantages of retention of roots, examination and abutment selection, treatment plan, indications and contraindications, types of overdentures, clinical procedures, design and construction post - insertion care, immediate overdenture.

PROS 605 - Fixed Prosthodontics III (6 Cr. : 3 Lec : 3 Prac)

Esthetic course in fixed prosthodontics: Advanced course in esthetic consideration in fixed prosthodontics, principles of esthetics, general components of a smile, dental components of smile golden theory. Esthetic restorations and technique: Types of all ceramic restorations and techniques of construction. Advantages and disadvantages, indications and contraindications, steps of preparation, impression making, fabrication and cementation cad / cam systems: Classification and, fabrication techniques.

PROS 606 - Fixed Prosthodontics IV (6 Cr. : 3 Lec : 3 Prac)

Adhesive metal - free restorations: Porcelain inlays, and onlays, advantages and disadvantages, indications and contraindications, types of inlay preparations, steps of preparation. Resin retained bridges: Types, indications, tooth preparation and cementation, fiber - reinforced restorations, porcelain laminate veneers, tooth preparation indications and contraindication and cementation, advanced color science and shade selection, light and color, dimensions of color, color perception, shade guides and shade selection, luting agents and cementation procedures, bonding mechanisms, cement selection, classification and techniques of different luting agents, ceramic posts for restoration of endodontically treated teeth.

PROS 607 - Removable Prosthodontics III (6 Cr. : 3 Lec : 3 Prac)

Removable partial denture, introduction and classification, diagnosis and treatment planning, principles of designing removable partial dentures, study of base design, survey and design, rest preparation, tooth selection, major connectors, mouth preparation and master cast, biologic considerations for removable partial denture impressions, philosophy, concepts and techniques, clinical and laboratory procedures for frame work construction, fitting frame work, establishing occlusal relationship, try - in and completion of the partial denture, removable partial denture delivery, post - insertion problems and management.

PROS 608 - Removable Prosthodontics IV (6 Cr. : 3 Lec : 3 Prac)

Implant prosthetics: Introduction, terminology, indications and contra - indications, advantages and disadvantages. diagnosis, treatment plan. Loading concept, types of surgical stents and steps of construction. Implant overdentures, removable versus fixed implant prosthetics, success and failure of dental implants. Dental geriatrics: Terminology, Oral aspect of aging, teeth, bone, Oral mucosa, salivary glands, maxillary sinus, TMJ, microbial changes, neoplastic changes, extra - oral aspect of aging, complete denture construction for geriatric patient, RPD construction for geriatric patient. Attachments: Terminology, advantages and disadvantages, classification. Factors affecting attachment selection, other forms of RPD, Temporomandibular joint disorders: Terminology, etiology, management, prosthetic implications. Introduction to Maxillo - facial prosthodontics: Definition, scope of maxillo - facial prosthodontics, indications, causes of maxillo - facial defects. Prosthodontic management of congenital cleft palate patients, prosthodontic management of acquired maxillary defects. Management of resected mandible, mandibular reconstruction with metallic implant. Prosthetic rehabilitation of patient with Jaw fracture.

PROS 609 - Fixed Prosthodontics FR I (2 Cr. : 1 Lec : 1 Prac)

Infection control procedures, Diagnosis and Treatment planning for replacement of partial loss of teeth: History taking, Clinical examination, Diagnostic casts, Radiographs and Diagnostic waxing up. Factors affecting the selection of type of restorations, Effects of loss of teeth, Decision to remove a tooth, Consequences of tooth loss replacement.

PROS 610 - Fixed Prosthodontics FR II (3 Cr. : 1 Lec : 2 Prac)

Indications and contraindications for fixed partial dentures, provisional restorations, types of conventional bridges, bridge design, basic principles of tooth preparation: Biologic, mechanical and esthetic considerations, principles of parallelism, retention and resistance, structural durability, marginal integrity. Post - insertion care and follow up, periodic recall, metal - ceramic restorations.

PROS 611 - Removable Prosthodontics FR I (2 Cr. : 1 Lec : 1 Prac)

Introduction to removable prosthodontics, objectives and mechanism of denture wearing, anatomic considerations of the denture bearing area, nutrition and the denture - bearing tissues, essential anatomy and physiology of the masticatory system, diagnosis and treatment planning of the edentulous patient, pre - prosthetic mouth preparation.

PROS 612 - Removable Prosthodontics FR II (3 Cr. : 1 Lec : 2 Prac)

Biologic considerations for impressions, impressions (theories, concepts and techniques), jaw relation records, articulators and interocclusal recording devices, selection and arrangement of teeth, complete denture try - in and insertion, post - insertion changes and problems, relining and rebasing.

PROS 613 - Fixed Prosthodontics FR III (3 Cr. : 1 Lec : 2 Prac)

Causes of failures of fixed partial dentures: Biologic causes, mechanical causes, esthetic causes, treatment options, removal of fixed partial dentures: Causes and techniques, fixed partial dentures repairs.

PROS 614 - Fixed Prosthodontics FR IV (4 Cr. : 2 Lec : 2 Prac)

Esthetic consideration in fixed prosthodontics, principles of esthetics, general components of a smile, dental components of smile golden theory. Esthetic restorations and techniques: Types of all ceramic restorations, advantages and disadvantages, indications and contra - indications, steps of preparation, impression making, fabrication and cementation. CAD / CAM systems: Classification and types, fabrication techniques.

PROS 615 - Removable Prosthodontics FR III (3 Cr. : 1 Lec : 2 Prac)

Removable partial denture, classification, diagnosis and treatment planning, mechanical principles associated with removable partial dentures, principles of designing, survey and design, rest preparation, tooth selection, major connectors, mouth preparation and master cast, biologic considerations for impressions, philosophy, concepts and techniques, clinical and laboratory procedures for frame work construction, fitting frame work, establishing occlusal relationship, try - in and completion of the partial denture, partial denture delivery, post - insertion problems and management.

PROS 616 - Removable Prosthodontics FR IV (4 Cr. : 2 Lec : 2 Prac)

Occlusion in removable prosthodontics: Physiology of jaw movements, factors affecting occlusion, concepts of complete denture occlusion, occlusion in removable partial dentures, occlusion for implant - supported overdentures, TMJ dysfunction, diagnosis and prosthodontic treatment, basic clinical procedures for temporary and permanent prostheses, treating abused tissues, tissue conditioners and soft liners, rebase and reline procedures.

PROS 617 - Fixed Prosthodontics FR V (3 Cr. : 1 Lec : 2 Prac)

Adhesive metal - free restorations: Porcelain inlays and onlays, advantages and disadvantages, indications and contra - indications, inlay preparations. Resin - retained bridges: Types, indications, tooth preparation and cementation, fiber - reinforced restorations.

PROS 618 - Fixed Prosthodontics FR VI (3 Cr. : 1 Lec : 2 Prac)

Porcelain laminate veneers: Tooth preparation, indications and contra - indications and cementation, advanced color science and shade selection, light and color, dimensions of color, color perception, shade guides and shade selection, luting agents and cementation procedures, bonding mechanisms, cement selection, classification and techniques of different luting agents, ceramic posts for restoration of endodontically treated teeth.

PROS 619 - Removable Prosthodontics FR V (3 Cr. : 1 Lec : 2 Prac)

Implant - supported removable prosthodontics: History and types, diagnosis and treatment planning, technical procedures, pre - prosthetic augmentation of the edentulous ridge. Physiology of osseous integration, theories of tooth - supported overdentures, advantages and disadvantages, indications and contraindications, construction, rationale for use and patient selection, advanced techniques for different attachments.

PROS 620 - Removable Prosthodontics FR VI (3 Cr. : 1 Lec : 2 Prac)

Principles of maxillofacial prosthetics: Acquired and congenital defects, impression techniques and laboratory procedures, radiation prostheses, splints and stents, management of the fractured mandible, speech related to removable prosthodontics, immediate dentures, single dentures. Prosthodontic treatment for geriatric patients: Denture construction, nutritional needs, different management techniques.

PROS 692 - Seminar in Fixed Prosthodontics***PROS 694 - Seminar in Removable Prosthodontics******PROS 695 - Seminar in Fixed Prosthodontics FR I******PROS 696 - Seminar in Fixed Prosthodontics FR II******PROS 697 - Seminar in Removable Prosthodontics FR I******PROS 698 - Seminar in Removable Prosthodontics FR II*****Elective Courses**

Course descriptions are available at the Faculty.

Diplomas & Master Degrees Programs

Fixed / Removable Prosthodontics

PHRM 651 - Applied Pharmacology (1 Cr.)

PROS 651 - Advanced Maxillofacial Prosthodontics (1 Cr.)

PROS 652 - Prosthodontic Rehabilitation for Compromised Teeth & Pediatrics (1 Cr.)

PROS 653 - Geriatric Dentistry (1 Cr.)

PROS 654 - Esthetics in Prosthodontics (2 Cr.)

PROS 655 - T.M.J. Disorders (2 Cr.)

PROS 656 - Attachments in Prosthodontics (2 Cr.)

PROS 657 - Treatment Planning & Diagnostic Aids for Prosthodontics (2 Cr.)

PROS 658 - Advanced Technology in Prosthodontics (2 Cr.)

PROS 659 - Implant - Supported Prosthodontics (2 Cr.)

PROS 660 - Occlusion in Prosthodontics (2 Cr.)

PROS 661 - Uses of Laser in Fixed Prosthodontics (2 Cr.)

Oral Surgery

PHRM 651 - Applied Pharmacology (1 Cr.)

OSRG 651 - General Anaesthesia (1 Cr.)

OSRG 652 - Management of Handicapped Patients in Oral & Maxillofacial Surgery (1 Cr.)

OSRG 653 - Soft Tissue Management in Oral & Maxillofacial Surgery (1 Cr.)

OSRG 654 - Hard Tissue Management in Oral & Maxillofacial Surgery (1 Cr.)

OSRG 655 - Lasers in Oral Surgery (1 Cr.)

OSRG 656 - Piezo Surgery (1 Cr.)

OSRG 657 - Maxillary Sinus Involvement in Oral Surgery (2 Cr.)

OSRG 658 - Advanced Local Anesthesia & Oral Surgery for Geriatrics (2 Cr.)

OSRG 659 - Orthognathic Surgery (2 Cr.)

OSRG 660 - Malignancy of the Orofacial Region (2 Cr.)

OSRG 661 - Pain: Diagnosis & Management (2 Cr.)

OSRG 662 - Diagnosis & Treatment of Hazards Associated with Oral & Maxillofacia Surgery (2 Cr.)

Pediatric Dentistry

PHRM 651 - Applied Pharmacology (1 Cr.)

PEDI 651 - Nutrition & Oral Health of Children (1 Cr.)

PEDI 652 - Systemic Diseases & Oral Health of Children (2 Cr.)

PEDI 653 - Minor Oral Surgery for Children (2 Cr.)

PEDI 654 - Survey Methodology (1 Cr.)

PEDI 655 - Testing of Biomaterials (2 Cr.)

PEDI 656 - Child Psychology (2 Cr.)

PEDI 657 - Pediatric Journal Club & State of Art (2 Cr.)

PEDI 658 - Planning Preventive Programs in School for Children (2 Cr.)

PEDI 659 - New Trends in Oral Radiology for Child (1 Cr.)

PEDI 660 - Oral Mucosal Lesions for Child (2 Cr.)

PEDI 661 - Uses of Ozone in Pediatric Dentistry (1 Cr.)

Periodontology

PHRM 651 - Applied Pharmacology (1 Cr.)

PERI 651 - Adjunctive Therapies Relevant to the Maintenance of Periodontal Health (1 Cr.)

PERI 652 - Esthetics in Dentistry (1 Cr.)

PERI 653 - Recent Advances in Periodontal Surgery (Laser & Ozone Application) (1 Cr.)

PERI 654 - Systemic Risk Factors in Oral Diseases (1 Cr.)

PERI 655 - Advances in Dental Implant Material & Tissue Regeneration (1 Cr.)

PERI 656 - Immunology & Oral Diseases (1 Cr.)

PERI 657 - Oral Microbiology (1 Cr.)

PERI 658 - Role of Genetics in Assessment, Risk & Management of Periodontal Disease (1 Cr.)

PERI 659 - Recent Technology in Dental Radiography (1 Cr.)

Orthodontics

PHRM 651 - Applied Pharmacology (1 Cr.)

ORTD 651 - The Management of Peg - Shaped & Congenital Missing Lateral Incisors (1 Cr.)

ORTD 652 - Wires Metallurgy (1 Cr.)

ORTD 653 - Dental Arch form Age Changes (1 Cr.)

ORTD 654 - Tissue Reaction to Tooth Movement (Cytokines) (1 Cr.)

ORTD 655 - Infection Control in Orthodontics (1 Cr.)

ORTD 656 - Child Dental Health Care & Orthodontics (1 Cr.)

ORTD 657 - Information Technology in Orthodontics (1 Cr.)

ORTD 658 - Craniofacial Anomalies (Syndromes) (1 Cr.)

ORTH 659 - Craniofacial Genetic Disorders in Humans (1 Cr.)

ORTD 660 - Cephalometrics (2 Cr.)

ORTD 661 - Advanced Occlusion (2 Cr.)

ORTD 662 - Interdisciplinary Management of Cleft Lip & Palate (2 Cr.)

ORTD 663 - Stomatognathic System (Craniofacial Muscles, TMJ & Occlusion) (2 Cr.)

ORTD 664 - Diagnostic Radiology & MRI in Orthodontics (2 Cr.)

ORTD 665 - Plastic Surgery (Chin, Lips & Nose) & Orthodontics (2 Cr.)

ORTD 666 - Orthodontic / Periodontics Inter - Relationship (2 Cr.)

ORTD 667 - Surgical Exposure of Impacted Teeth for Orthodontic Traction Purposes (2 Cr.)

ORTD 668 - Bone Physiology & Calcium Metabolism (2 Cr.)

Operative Dentistry

HRM 651 - Applied Pharmacology (1 Cr.)

REST 651 - Infection Control (1 Cr.)

REST 652 - Micro - Leakage & Methods of Testing (2 Cr.)

REST 653 - Corrosion of Amalgam (1 Cr.)

REST 654 - The Role of Sem Study in Research of Restorative Dentistry (1 Cr.)

REST 655 - Pain in Operative Dentistry (1 Cr.)

REST 656 - Periodontics / Restorative Dentistry Interrelationship (2 Cr.)

REST 657 - Occlusion in Operative Dentistry (2 Cr.)

REST 658 - Laser in Operative Dentistry (1 Cr.)

REST 659 - Restoration of Badly Destroyed Teeth (1 Cr.)

REST 660 - Pulp Response to Restorative Procedures (2 Cr.)

REST 661 - Physical & Mechanical Properties of Restorative Materials (2 Cr.)

REST 662 - Direct & Indirect Gold Restorations (2 Cr.)

REST 663 - Direct Complex Restorations (2 Cr.)

REST 664 - Dental Caries: Incidence, Caries Diagnosis & Preventive Measures (2 Cr.)

REST 665 - Restoration of Endodontically Treated Teeth (2 Cr.)

REST 666 - Clinical Application of Composite Resin in Anterior Teeth (2 Cr.)

REST 667 - Glass Ionomer Cement Restorations (2 Cr.)

REST 668 - Adhesion in Operative Dentistry (2 Cr.)

REST 669 - Aesthetics in Restorative Dentistry (2 Cr.)

REST 670 - Management of Worn Dentition (2 Cr.)

REST 671 - New Trends in Aesthetic Inlay / Onlay Restorations (2 Cr.)

Endodontics

PHRM 651 - Applied Pharmacology (1 Cr.)

ENDO 651 - Uses of Laser in Endodontics (2 Cr.)

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PROS 654 - Esthetics in Prosthodontics (2 Cr.)

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