

Study Plan of Master Degree in Fixed and Removable Prosthodontics

Non Thesis track

Plan No. /5/1 /13 / 2005/NT

I. General Rules and Conditions:

1. This plan conforms to the valid regulations of programs of graduate studies.

2. Areas of specialty for admission to this program:

❖ **Doctor of Dental Surgery (DDS) or Bachelor in Dental Surgery (BDS)**

II. Special Conditions:

- The student should have finished the internship training program.
- The student must pass an entrance exam administered by a joint committee from Department of Conservative Dentistry and Department of Removable Prosthodontics at Faculty of Dentistry.

III. The study plan for non-thesis track: studying (42) credit hours as follows:

1. Obligatory Courses: (33) credit hours

Course no.	Course title	Credit hrs	Theor.	Pract.	Pre-req
1302727	Fixed and Removable Prosthodontic 1	4	1	12	-
1304713	Fixed and Removable Prosthodontic 2	4	1	12	1302727
1302717	Biomaterials	2	2	-	-
1302729	Fixed and Removable Prosthodontic 3	4	1	12	1304713
1304715	Fixed and Removable Prosthodontic 4	4	1	12	1302729
1304725	Restorative and Periodontology Intervention	2	2	-	-
1304718	Dental Implantology	2	2	-	-
1302726	Fixed and Removable Prosthodontics and related surgery I	4	1	12	1304715
1304720	Fixed and Removable Prosthodontics and related surgery 2	4	1	12	1302726
0505704	Research Methodology	3	3	-	-
	Total	33			

- Note: 1 credit hour = 4 practical hours.

2. Elective Courses: (9) credit hours to be chosen from the following:

Course no.	Course title	Credit Hrs.	Theor.	Pract.	Pre-req.
1304719	Geriatric Dentistry	2	1	3	-
1304721	Maxillofacial Prosthesis	2	1	3	-
1302721	Occlusion and Treatment of TMJ Disorders	2	2	-	-
1304722	Dental Laboratories	2	-	6	-
1302728	Advance Endodontic Treatment	2	2	-	-
1301716	Dental Management of Medically Compromised Patients	2	2	-	-
1302724	Aesthetics Dentistry	2	2	-	-
1303774	Preventive Dentistry	1	1	-	-
0503704	Clinical Pharmacology	3	3	-	-
0301737	Biostatistics	3	3	-	-
0504722	Medical Genetics	3	2	3	-

* Note: 1 credit hour = 3 practical hours.

3. A Comprehensive Exam (1302798).

Non Thesis track

First year			
First semester		Second semester	
Course title	Credit hours	Course title	Credit hours
Fixed and Removable Prosthodontics 1	4	Fixed and removable Prosthodontics 2	4
Biomaterials	2	Biostatistics	3
Total	6	Total	7

Second year			
First semester		Second semester	
Course title	Credit hours	Course title	Credit hours
Fixed and Removable Prosthodontics 3	4	Fixed and Removable Prosthodontics 4	4
Restorative and Periodontology Intervention	2	Dental Implantology	2
Total	6	Total	6

Third Year			
First semester		Second semester	
Course title	Credit hours	Course title	Credit hours
Fixed and Removable Prosthodontics and Related Surgery 1	4	Fixed and Removable Prosthodontics and Related Surgery 2	4
Geriatric Dentistry	2	Maxillofacial Prosthesis	2
Research Methodology	3	Aesthetic Dentistry	2
Total	9	Total	8

Study Plan of Master Degree in Fixed and Removable Prosthodontics

Thesis track Plan No. /5/1 /13 / 2005/T

IV. General Rules and Conditions:

3. This plan conforms to the valid regulations of programs of graduate studies.

4. Areas of specialty for admission to this program:

❖ **Doctor of Dental Surgery (DDS) or Bachelor in Dental Surgery (BDS)**

V. Special Conditions:

- The student should have finished the internship training program.
- The student must pass an entrance exam administered by a joint committee from Department of Conservative Dentistry and Department of Removable Prosthodontics at Faculty of Dentistry.

VI. The study plan: Studying (42) credit hours as follows:

3. Obligatory Courses: (27) credit hours

Course no.	Course title	Credit hrs	Theor.	Pract.	Pre-req
1302727	Fixed and Removable Prosthodontic 1	4	1	12	-
1304713	Fixed and Removable Prosthodontic 2	4	1	12	1302727
1302717	Biomaterials	2	2	-	-
1302729	Fixed and Removable Prosthodontic 3	4	1	12	1304713
1304715	Fixed and Removable Prosthodontic 4	4	1	12	1302729
1304718	Dental Implantology	2	2	-	-
1302726	Fixed and Removable Prosthodontics and related surgery 1	4	1	12	1304715
0505704	Research Methodology	3	3	-	-
	Total	27			

* **Note: 1 credit hour = 4 practical hours.**

4. Elective Courses: (6) credit hours to be chosen from the following:

Course no.	Course title	Credit Hrs.	Theor.	Pract.	Pre-req.
1304719	Geriatric Dentistry	2	1	3	-
1304721	Maxillofacial Prostheses	2	1	3	-
1302721	Occlusion and Treatment of TMJ Disorders	2	2	-	-
1304722	Dental Laboratories	2	-	-	-
1302728	Advance Endodontic Treatment	2	-	-	-
1304725	Restorative and Periodontolgy Intervention	2	2	-	-
1301716	Dental Management of Medically Compromised Patients	2	2	-	-
1302724	Aesthetics Dentistry	2	2	-	-
1303774	Preventive Dentistry	1	1	-	-
0503704	Clinical Pharmacology	3	3	-	-
0301737	Biostatics	3	3	-	-
0504722	Medical Genetics	3	2	3	-

*** Note: 1 credit hour = 3 practical hours.**

3. Thesis: 9 credit hours (1302799).

Thesis track

First year			
First semester		Second semester	
Course title	Credit hours	Course title	Credit hours
Fixed and Removable Prosthodontics 1	4	Fixed and removable Prosthodontics 2	4
Biomaterials	2	Biostatistics	3
Total	6	Total	7

Second year			
First semester		Second semester	
Course title	Credit hours	Course title	Credit hours
Fixed and Removable Prosthodontics 3	4	Fixed and Removable Prosthodontics 4	4
Preventive Dentistry	1	Dental Implantology	2
Total	5	Total	6

Third Year			
First semester		Second semester	
Course title	Credit hours	Course title	Credit hours
Fixed and Removable Prosthodontics and Related Surgery	4	Thesis Dissertation	9
Research Methodology	3	Geriatric Dentistry or Maxillofacial Prosthesis	2
Total	7	Total	11

Course Description

1302727 **Fixed and Removable Prosthodontics 1** **(4 credit hours)**
Pre-request: none

The theoretical content of this course will be in the form of seminars and will include the basic principles of diagnosis and treatment planning for all types of fixed and removable cases whilst the practical component of the course will be conducted as clinical sessions. The course in its theoretical and practical components aims at enabling the students to diagnose, provide a treatment plan and manage cases that require treatment using various types of fixed and removable prosthesis, including the laboratory procedures under supervision.

1304713 **Fixed and Removable Prosthodontics 2** **(4 credit hours)**
Pre-request: 1302727

This course is composed of the advanced knowledge in the methods of diagnosis and the methods of devising treatment plans appropriate for fixed and removable prosthetic cases in its complete and partial divisions in addition to cases that will transfer from a treatment with a partial to full prosthesis. This course will define the theoretical frame for the clinical and laboratory treatment methods and the clinical training related to diagnosis and treatment of cases requiring various types of prosthetic treatment.

1302717 **Biomaterials** **(2 credit hours)**
Pre-request: none

This course aims to improve knowledge in new materials used in clinical dentistry, their manipulation and uses in fixed and removable prosthodontic fields, maxillofacial prostheses and dental implants. In addition to the laboratory studies on physical and chemical properties for these materials their biocompatibility and effects on biological systems.

1302729 **Fixed and Removable Prosthodontics 3** **(4 credit hours)**
Pre-request: 1304713

The theoretical component of this course aims at insuring that the students are well aware of the latest developments related to fixed and removable prosthodontics. The practical component of this course will be in the form of clinical sessions which aims at having a student capable of evaluating his/her gained skills and develop new diagnostic and clinical skills related to fixed and removable prosthodontics, including laboratory procedures.

1304715 **Fixed and Removable Prosthodontics 4** **(4 credit hours)**
Pre-request: 1302729

The theoretical component of this course negotiate the methods for developing cognitive abilities required for the advanced treatments in the field of fixed and removable prosthodontics including those requiring immediate and over dentures and implant supported prosthesis. On the other hand, the practical component of this course aims at providing training for management of complicated cases that require advanced clinical procedures including pre-prosthetic surgery.

1304725 **Restorative and Periodontology** **(2 credit hours)**
Intervention

Pre-request: none

This course provides an understanding of the etiology and development of periodontal diseases, diagnosis, methods of treatment, and the periodontal considerations in fixed and removable prosthodontics, biological concepts of crown lengthening, it also discusses theories of dentin hypersensitivity and its treatment, and the role of occlusion in periodontal diseases.

1304718 **Dental implantology** **(2 credit hours)**

Pre-request: none

This course consists of advanced and successful options in treating patients by dental implants supported partial fixed prostheses and implant-retained complete prostheses, in addition to patients with single missing tooth providing that there are no anatomical or psychological contra-indications. It also discusses all the basic principles of surgical and prosthetic aspects of implants, complications.

1302726 **Fixed and Removable Prosthodontics and** **(4 credit hours)**
Related Surgery-1

Pre-request: 1304715

This course takes the form of clinical sessions that aims at enabling the student to diagnose, provide treatment plan and manage cases that require advanced treatment techniques including full mouth rehabilitation. Postgraduate students will accompany teaching staff in supervising undergraduates to help them gain experience in clinical teaching, evaluation and to be exposed to a wide range of clinical scenarios and challenges. The course also include lectures in methods of pre-prosthetic preparation with emphasis on pre-prosthetic surgical procedures.

1304720 **Fixed and Removable Prosthodontics and** **(4 credit hours)**
Related Surgery-2

Pre-request: 1302726

This course includes a detailed coverage of all the advanced procedures used to surgically prepare oral tissue for fixed and removable prosthodontics. This course is also concerned with training students in minor reconstructive surgical procedures related to prosthetic work. An integral part of the course is to participation in the advanced pre-prosthetic surgical procedures. Postgraduate students will accompany teaching staff in supervising undergraduates to help them gain experience in clinical teaching, evaluation and to be exposed to a wide range of clinical scenarios and challenges.

(0301737) **Biostatistics** **(3 credit hours)**

Pre-request: none

This course focuses on organizing and summarizing data, sampling methods and statistical distributions (binomial Poisson X^2 , t and F); sampling methods and distributions, estimation and hypotheses about means, proportions and variances bases on large and small samples: analysis of variance (one way, two-way, factorial designs, Lating square), regression analysis (simple and multiple), Chi-square-tests, nonparametric methods, and correlation coefficient, environmental and biostatistical data.

1304719 **Geriatric Dentistry** **(2 credit hours)**

Pre-request: none

This course concentrates on effects of age on the health of geriatric patients, diagnosis and treatment of oral disease in geriatric patients, and how to deal with complications of chronic systemic diseases in loss of teeth and need of special intervention for people at this age group.

1304721 **Maxillofacial Prostheses** **(2 credit hours)**

Pre-request: none

This course discusses the etiology of maxillofacial defects and role of other dental specialists together with the prosthodontist in management of these cases. This course also aims to teach the students the clinical steps of the construction of intra-oral and extra-oral facial prostheses, and it also describes different methods of fixation by means of dental implants, magnets, and adhesives materials.

1303774**Preventive Dentistry****(1 credit hour)**

Pre-request: none

This course focuses on the etiology, prevalence and prevention of dental caries using fluoride and other methods and the new technologies used in the diagnosis and treatment of dental caries. An evidence-based approach is emphasized.

0503704**Clinical Pharmacology****(3 credit hours)**

Pre-request: none

This course describes the clinical applications of drugs which include: patient treatment, drug experiments on human, steps of drug development from raw materials to the final form, ethics of using human dentitions in experiments as declared by Helisinky agreement and FDA instructions. The practical part of this course aims to expose the student to the activities of clinical pharmacology laboratories and to some clinical research work on drug applications.

0503704**Clinical Pharmacology****(3 credit hours)**

Pre-request: none

This course aims to describe the clinical application of drugs including patient treatment, studies of drug application and the steps of drug development. Recent advances in pharmacology particularly as related to the pediatric patient are discussed in this course.

0504722**Medical Genetics****(3 credit hours)**

Pre-request: none

This course covers the study of chromosomes and heredity, genetic linkage, chemistry of the gene, mitosis and meiosis, gamete formation, mechanisms of transfer of genetic traits, genetic code and its transcription and translation, protein synthesis, mutations, genetic map, sex determination, sex-linked characteristics, human genetic disorders and their diagnosis and management, and genetic engineering.