



Model (No 12)
Course Specification : Removable and Maxillofacial
prosthodontics

Mansoura University
Farabi Quality Management of Education and Learning - 29/10/2015

University : Mansoura University
Faculty : Faculty of Dentistry
Department : Removable prosthodontics

1- Course data :-

Code: P 201 Pr	Course name: Removable Prosthodontics	Study year: 2015-2016
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Specialization: Master degree in oral and dental surgery in branch of Removable Prosthodontics.

Teaching hours:

Lecture: 3h/week (30 weeks)
4h/week (30 weeks)

Practical: 12h/week

Number of units: 60

2- Course aims :-

The aim of this course is to

- 1- Provide postgraduate students with knowledge and skills on removable and maxillofacial prosthodontics
- 2- Applying the light on the recent trends in Prosthodontics.
- 3- Provide the basic principles in research writing and methodology.

3- Intended learning outcomes of course (ILOS) :-

a- Knowledge and understanding

At the end of this course, the postgraduate student will be able to:

1. Demonstrate sound knowledge of the biological and technical aspects of complete and removable partial dentures and their integration with the clinical procedures .
2. Learn a proper systematic and standardized clinical examination.
3. Understanding the basic concepts of impression making and learn special techniques in different prosthetic cases
4. Demonstrate knowledge about face bow transfer and other graphic tracers
5. List the several approaches used to record jaw relation and establish a proper occlusion of the complete and partial denture
6. List the requirements of proper esthetics and phonetics.
7. Summarize problems that can be found in the try-in stage before denture processing
8. State the occlusal errors and their management during the delivery of complete dentures to the patients with understanding the post-insertion complaints
9. Recognize the need for denture relining and different techniques of denture relining
10. Recognize the recent trends in complete dentures
11. Illustrate the basic knowledge of how to design a removable partial denture framework

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12. Point out the mechanical principles of different removable partial denture classes
 13. Illustrate the role of dental surveyors and its relation to evaluate mouth preparation
 14. Identify the post insertion complaints and its management with the application of recent trends in removable partial denture
 15. Understand the stresses induced by the RPD and how to manage
 16. Identify the different material, instruments and devices involved in the construction of complete dentures and removable partial dentures as well as their uses
 17. Understanding the basic principles in maxillofacial prosthodontics including the new trends in maxillofacial prosthesis and materials
 18. Point out the principles and concepts of implant biomechanics and related occlusal schemes
 19. Point out the principles of overdenture (tooth/implant) and the role of digitization in prosthodontics
 20. Define principles and ethics of scientific research writing.

b- Intellectual skills

On completing this course, the student will be able to:

1. Interpret diagnostic data and records for proper diagnosis.
2. Classify the impression technique according to the condition of the residual ridge.
3. Analyze data to select proper articulator to achieve proper occlusal scheme.
4. Differentiate between high and low vertical dimension and assess the needs of balanced occlusion and facebow transfer
5. Solve the problems related to inadequate esthetic and phonetics of the trial denture bases
6. Assess errors during the try in stage and then during the delivery stage and their correction.
7. Distinguish the need for denture relining after insertion selecting the recent trends to solve such problems
8. Classify the partial denture cases with achieving good diagnosis and suitable treatment plan including recent trends
9. Solve the problems related to lack of retention of maxillofacial prosthesis using recent trends
10. Interpret the radiographic readings and define proper implant placement with selection of proper occlusal schemes especially in overdentures.
11. Select suitable methods of evaluation for his research.

c- Professional and practical skills

On completing this course, the postgraduate student will be able to:

1. Utilize the proper tools for diagnosis and good treatment plan
2. Solve the problems of knife edge ridge and flat ridges during impression making with proper diagnosis.
3. Show the functional methods used to establish jaw relation with correct face bow transfer achieving proper occlusal schemes.
4. Translate the consequences of inadequate determination of the physiologic rest position and vertical dimension.
5. Utilize functional techniques to establish a proper esthetic and phonetic for complete and partial dentures .
6. Solve the occlusal errors during the try in stage using clinical remounting
7. Apply the rules of selective grinding before denture delivery to manage insertion problems
8. Demonstrate the difference between open and closed mouth relining techniques.
9. Apply the rules of partial denture designing in each case .
10. Demonstrate the biomechanical difference between each partial denture class
11. To replace missing teeth with complete or partial removable prostheses to acceptable form,

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- function, and esthetics, while maintaining the integrity of the supporting tissues.
12. Interpret role of dental surveyor and design RPDs.
 13. Demonstrate knowledge and skill in applying occlusal concepts when replacing teeth with removable prostheses.
 14. Understanding the principles underlying the function of RPDs, and understanding of the influence of the opposing occlusion on RPD design.
 15. Provide appropriate post-placement care for patients receiving removable prostheses.
 16. Developing practical skills in maxillofacial impressions and prosthesis.
 17. Understanding the basic principles of implant placement and developing basic skills in selecting proper occlusal schemes in different overdenture cases.
 18. Apply different testing and clinical/ laboratory evaluation methods related to his research work.

d- General and transferable skills

At the end of this course, the student will be able to:

- 1- Work productively in a team.
- 2- Utilize effectively different sources for continuing professional development and life-long learning.
- 3- Display appropriate professional communication skills with patients, colleagues, the rest of the dental team, and other relevant person or groups
- 4- Patients' education and motivation according to their mental attitude.
- 5- Develop time management skills
- 6- Use Modern technologies to improve workflow.
- 7- Develop the ability to lead a team to achieve comprehensive dental care to the patients.

4-Course contents:

No	Topics	Week
	Complete Denture Course	
1	Diagnosis and Treatment plan.	1
2	Impression techniques and theories.	2
3	Mandibular movements & Articulators	3
4	Face bow and graphic tracing.	4

5	Jaw relations.	5
6	Try- in.	6
7	Occlusion theories and concepts.	7
8	Esthetic in complete denture.	8
9	Insertion	9
10	Post insertion complaint.	10
11	Retention, Support & Stability.	11
12	Relining & Rebasing techniques.	12
13	Recent trends in complete denture construction	13
	Removable partial denture course	
14	Examination and evaluation of diagnostic data.	14
15	Treatment plan.	15
16	Principles of RPD.	16

17	Mouth preparation.	17
18	Impression registration Control of gagging and saliva. Special impression procedures for tooth-tissue supported RPD.	18
19	Surveyors. Removable partial denture components.	19
20	Kennedy classes and design of RPD. Class I	20
21	Class II.	21
22	Class III.	22
23	Class IV & Esthetics for RPD	23
24	Fitting of the framework.	24
25	Establishing of occlusal relationship for RPD	25
26	Try-in of RPD & Delivery of RPD.	26
27	Tissue damage caused by RPD.	27

28	Stresses induced by RPD	28
29	Management of tissue damage.	29
30	Patient's complaint & Repair and addition of RPD	30
31	Recent trends of removable partial dentures	31
	Maxillofacial course	
32	Obturator. Obturator for congenital cleft palate.	32
33	Obturator for acquired cleft palate. Immediate obturator. Temporary obturator. Permanent obturator. Hollow pulp obturator. Roofless obturator Two pieces obturator. Meatal obturator . Obturator for dental cyst.	33,34
34	Stents & Splints.	35
35	Prosthetic management of irradiated patients.	36

36	Nasal prosthesis	37
37	Ocular prostheses	38
38	Cranial prostheses	39
39	Retention of maxillofacial Prosthesis	40
40	Implants of maxillofacial Prosthesis	41
41	Recent trends of maxillofacial prostheses	42
42	Immediate Dentures	43
	Special Prosthodontics Course	
43	Attachment retained removable partial denture (intracoronal)	44
44	Attachment retained removable partial denture (extracoronal)	45
45	Attachment retained overdenture (stud)	46
46	Attachment retained overdenture (Bar)	47

47	Single denture I	48
48	Single denture II	49
49	Tooth overdenture I	50
50	Tooth overdenture II	51
51	Tooth overdenture III	52
52	Implant overdenture I (retained)	53
53	Implant overdenture II (supported)	54
54	Implant overdenture III (abutments)	55
55	Geriatric Patients	56
56	Digitation of removable Prosthodontics	57,58
57	CAD /CAM removable Prosthodontics	59,60

5- Teaching and learning methods :-

S	Method	Basic knowledge	Intellectual skills	Professional skills	General skills
1	Lectures (power point presentations)	√	√	-	√
2	Clinical sessions (demonstration)	√	√	√	√
3	Case presentation	√	√	√	√
4	Group discussion	√	√	-	√
5	Seminars	√	√	-	√

6- Teaching and learning methods of disables :-

1. None

7- Activities and sources of teaching and learning :-

S	Activities and resources	Basic knowledge	Intellectual skills	Professional skills	General skills
1	Seminars	√	√	√	√
2	Clinical Requirements	√	√	-	√

sources of teaching and learning :-

- 1-Faculty library
- 2-Lecture rooms
- 3-Clinics
- 4-Labs and models

8- Student assessment :-**a- Student assessment methods**

No	Method	Basic knowledge	Intellectual skills	Professional skills	General skills
1	Final written exam	√	√	-	-
2	Oral exam	√	√	-	√
3	Practical and clinical examination	-	√	√	√

b- Assessment schedule

No	Method	Week
1	Final written exam (first and second paper)	Exams held on June or November
2	Oral exam	
3	Final Practical and clinical Exam	

d- Weighting of assessments

No	Method	Weight	Proportion
١	Final written examination	180	(23.37%)
٢	Oral examination	160	(20.77%)
3	Practical examination	350	(45.45%)
4	Clinical case presentations	80	(10.38%)
4	Total	770	(100%)

9- List of references

S	Item	Type
1	1. Clinical notes of complete denture. (Department of removable prosthodontics, Faculty of Dentistry, Mansoura University).	Notes
2	2-Prosthodontic treatment of edentulous patient. Zarb 13 th Edition. Elsevier	Textbook
3	3- Winkler .ESSENTIALS OF COMPLETE DENTURE PROSTHODONTICS.	Textbook
5	4- CarrAB, and David T. Brown McCracken's Removable Partial Prosthodontics - Elsevier E-Book on VitalSource, 12th Edition. 2011.	Textbook
6	5- Phoenix RD, Cagna DR, DeFreest CF: Stewart's Clinical Removable Partial Prosthodontics. fourth Edition. Quintessence Publishing Co, Inc. 2008	Textbook
7	6- Journal of prosthetic dentistry	Scientific journal
8	8. Beumer III J, Marunick M T, and Esposito S J. Maxillofacial Rehabilitation: Prosthodontic and Surgical Management of Cancer-Related, Acquired, and Congenital Defects of the Head and Neck, Third Edition. Quintessence Publishing Co, Inc. 2011	Textbook
9	9. Carl E. Misch. Contemporary Implant Dentistry, 3rd Edition 2008	Textbook

10	10.Osborne J, And LammieG.A.Partial Denture.	Textbook
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10- Matrix of knowledge and skills of the course

No	Topics	Basic knowledge	Intellectual skills	Professional skills	General skills
	Complete Denture Course				
1	Diagnosis and Treatment plan.	a.2	b.1	c.1	d1 d2 d3 d4
2	Impression techniques and theories.	a.3	b.2	c.2	d1 d2 d.3 d5
3	Mandibular movements & Articulators	a.4	b.3	c.3	d1 d.2 d.3 d.6
4	Face bow and graphic tracing.	a.5	b.1 b.3 b.4	c.3	d1 d2 d.3 d6
5	Jaw relations.	a.4 a.5	b.4	c.3 c.4	d1 d.2 d.3
6	Try- in.	a.7	b.5 b.6	c.6	d1 d2 d.3
7	Occlusion theories and concepts.	a.5	b.3	c.13	d.1 d.2 d.3
8	Esthetic in complete denture.	a.6	b.5	c.5	d1 d2 d.3
9	Insertion	a.8	b.6	c.7	d1 d2 d.3 d.4

10	Post insertion complaint.	a.8	b.6	c.7	d.1 d.2 d.3 d.4
11	Retention, Support & Stability.	a.1	b.1	c.1	d1 d2 d.3
12	Relining & Rebasing techniques.	a.9	b.7	c.8	d1 d2 d.3
13	Recent trends in complete denture construction	a.10	b.7		d.1 d.2 d.3
	Removable partial denture course				
14	Examination and evaluation of diagnostic data.	a.2	b.1 b.8	c.1	d1 d2 d.3
15	Treatment plan.	a.2 a.11	b.2	c.1	d.1 d.2 d.3
16	Principles of RPD.	a.12	b.8	c.9	d1 d2 d.3
17	Mouth preparation.	a.13	b.8	c.12	d1 d2 d.3
18	Impression registration Control of gagging and saliva. Special impression procedures for tooth-tissue supported RPD.	a.3	b.8	c.2	d.1 d.2 d.3 d.5
19	Surveyors. Removable partial denture components.	a.13	b.8	c.12	d1 d2 d.3 d.6

20	Kennedy classes and design of RPD. Class I	a.11 a.12	b.8	c.10	d1 d2 d.3
21	Class II.	a.12	b.8	c.10	d1 d2 d.3
22	Class III.	a.12	b.8	c.10	d1 d2 d.3
23	Class IV & Esthetics for RPD	a.6 a.12	b.8	C10 c.11	d1 d2 d.3
24	Fitting of the framework.	a.17	b.8	c.9	d1 d2 d.3
25	Establishing of occlusal relationship for RPD	a.5	b.8	c.13 c.14	d1 d2 d.3
26	Try-in of RPD & Delivery of RPD.	a.14	b.8	c.11 c.15	d1 d2 d.3
27	Tissue damage caused by RPD.	a.14	b.8	c.11 c.15	d1 d2 d.3
28	Stresses induced by RPD	a.15	b.8	c.11 c.15	d1 d2 d.3
29	Management of tissue damage.	a.15	b.8	c.11 c.15	d1 d2 d.3
30	Patient's complaint & Repair and addition of RPD	a.14 a.16	b.8	c.11 c.15	d1 d2 d.3
31	Recent trends of removable partial dentures	a.14	b.8		d1 d2 d.3

	Maxillofacial course				
32	Obturator. Obturator for congenital cleft palate.	a.17	b.1 b.9	c.1 c.16	d1 d2 d.4 d.3 d.7
33	Obturator for acquired cleft palate. Immediate obturator. Temporary obturator. Permanent obturator. Hollow pulp obturator. Roofless obturator Two pieces obturator. Meatal obturator . Obturator for dental cyst.	a.17	b.9	c.16	d1 d2 d.3 d7
34	Stents & Splints.	a.17	b.9	c.16	d1 d2 d.3 d.7
35	Prosthetic management of irradiated patients.	a.17	b.9	c.16	d1 d2 d.3 d.7
36	Nasal prosthesis	a.17	b.9	c.16	d1 d2 d.3 d.7

37	Ocular prostheses	a.17	b.9	c.16	d1 d2 d.3 d.7
38	Cranial prostheses	a.17	b.9	c.16	d1 d2 d.3 d.7
39	Retention of maxillofacial Prosthesis	a.17	b.9	c.16	d1 d2 d.3
40	Implants of maxillofacial Prosthesis	a.17 a.18	b.9	c.13 c.16	d1 d2 d.3 d.7
41	Recent trends of maxillofacial prostheses	a.17	b.9	c.16	d1 d2 d.3 d.8
42	Immediate Dentures	a.17	b.9	c.16	d1 d2 d.3
	Special Prothodontic Course				
43	Attachment retained removable partial denture (intracoronal)	a.19	b.10	c.17	d1 d2 d.3
44	Attachment retained removable partial denture (extracoronal)	a.19	b.10	c.17	d1 d2 d.3
45	Attachment retained overdenture (stud)	a.19	b.10	c.17	d1 d2 d.3
46	Attachment retained overdenture (Bar)	a.19	b.10	c.17	d1 d2 d.3
47	Single denture I	a.19	b.10	c.17	d1 d2 d.3

48	Single denture II	a.19	b.10	c.17	d1 d2 d.3
49	Tooth overdenture I	a.19	b.10	c.17	d1 d2 d.3
50	Tooth overdenture II	a.19	b.10	c.17	d1 d2 d.3
51	Tooth overdenture III	a.19	b.10	c.17	d1 d2 d.3
52	Implant overdenture I (retained)	a.19	b.10	c.13 c.17	d1 d2 d.3
53	Implant overdenture II (supported)	a.19	b.10	c.13 c.17	d1 d2 d.3
54	Implant overdenture III (abutments)	a.19	b.10	c.13 c.17	d1 d2 d.3
55	Geriatric Patients	a.19	b.10	c.17	d1 d2 d.3 d.4
56	Digitation of removable Prosthodontics	a.19	b.10	c.17	d1 d2 d.3 d.6
57	CAD /CAM removable Prosthodontics	a.19	b.9	c.17	d1 d2 d.3 d.6

Course Coordinator(s):

- Prof/Salah Hegazy

Head of department:

-Prof / Salah Hegazy

