



## Model (No 12)

Course Specification: **Diploma in Removable prosthodontics**

Faculty of Dentistry  
Farabi Quality Management of Education and Learning - 17/3/2016

**University:** Mansoura University

**Faculty:** Faculty of Dentistry

**Department:** Removable Prosthodontics

### 1- Course data: -

Code:	Course name:	Study year:
P 101 Pr	Removable Prosthodontics	2015-2016

Specialization: Higher Dental Diploma (Removable prosthodontics)

Teaching Hours:

Lectures 6h/week (45week)

Clinical 15h/week(45 week)

No. of units: 45

### 2- Course aims: -

The aim of this course is to:

- 1- Provide postgraduate students with knowledge and skills for management of completely edentulous patients and special cases with critical thinking of different treatment plan options.
- 2- Provide students with knowledge and skills for management of partially edentulous patients and some special cases with different treatment modalities.
- 3- Provide students with knowledge and skills for management of some maxillofacial cases.

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

#### a- Knowledge and understanding

1. Define intraoral anatomical landmarks and their prosthetic significance.
2. Recognize different methods of recording the anatomical landmarks of completely edentulous patients.
3. List the several approaches used to record jaw relation and establish a proper occlusion of the complete and single denture denture
4. Identify types of facebow and the objectives of facebow transfer.
5. List the requirements of proper esthetics and phonetics.
6. Summarize problems that can be found in the try-in stage before denture processing
7. State the occlusal errors and their management during the insertion of complete dentures to the patients.
8. Identify the etiology of post-insertion complaints
9. Review occlusion theories and concepts
10. Recognize the need for denture relining and different techniques of denture relining

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11. List recent techniques for denture construction, modifications.
  12. Point out the role of digitization in CD
  13. Discuss the tooth/implant supported complete overdenture objectives and steps of construction
  14. Review immediate denture steps
  15. Discuss the clinical steps in construction of removable partial denture (RPD) either metallic or acrylic or the overdenture.
  16. Define the diagnostic aids for partial denture and its significance.
  17. Recognize the role of the accurate mouth preparation in success of RPD.
  18. Explain different methods used to record the remaining teeth in addition to the soft tissues of the partial edentulous patients during final impression making
  19. Specify the principles of designing of partial denture according to the classes of partial dentures
  20. Review types and steps of dental surveying
  21. Review the important steps of the metallic framework try-in.
  22. List the different approaches used to establish the jaw relation according to the partial edentulous case and the state opposing arch.
  23. Identify the rules needed to achieve proper esthetic in partial edentulous patients
  24. Summarize problems that can be found in the try-in stage before denture processing.
  25. State the occlusal errors and their management in during the delivery of partial denture dentures to the patients.
  26. Delineate the post insertion complaint, and tissue damage caused by RPD.
  27. Recognize the need for denture relining and repair of the partial denture.
  28. Review recent trends in RPD construction.
  29. Discuss the indication and uses of immediate denture.
  30. Describe the different types of maxillofacial prosthesis used to rehabilitate patients with maxillary or mandibular defects.
  31. Identify the uses of stents and splints.
  32. Recognize management of irradiated patients.
  33. Discuss overdenture steps of construction.
  34. List different attachments for RPD and overdenture.

**b- Intellectual skills :**

1. Interpret diagnostic data and records for proper diagnosis.
2. Classify the impression technique according to the condition of the residual ridge.
3. Analyse data to select proper occlusal scheme.
4. Differentiate between high and low vertical dimension
5. Distinguish different mandibular movement tracers.
6. Solve the problems related to inadequate esthetic and phonetics of the trial denture bases
7. Assess errors during the try in stage and then during the delivery stage and their correction.
8. Distinguish the need for denture relining after insertion
9. Assess the support, retention, and support. And how to maximize
10. Analyze different method for recording Posterior palatal seal.
11. Compare recent methods and techniques for complete denture construction.
12. Differentiate between tooth supported and implant supported complete

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overdenture

13. Design over-denture ,single denture, and immediate for different cases
  14. Examine the remaining teeth and soft tissue with the underlying bone clinically and radiographically.
  15. Analyze the needed mouth preparation and prognosis of different RPD cases.
  16. Differentiate between the two basic types of RPD in the support.
  17. Select the suitable physiologic impression technique for the extension bases partially edentulous cases.
  18. Plan steps for surveying diagnostic and master casts.
  19. Design the metallic framework according to the principles of biological and biomechanical concepts.
  20. Manage the cases with distal extension RPD with the best biological preservation of the remaining structures.
  21. Analyze the biomechanics of each class of the RPD.
  22. Assess the metallic framework extra-orally and intraorally.
  23. Create accurate maxillo-mandibular relation according to the remaining teeth number and position in the opposing arches.
  24. Solve problems in esthetics and phonetics in RPD
  25. Inspect occlusal problem in the try-in stage.
  26. Solve the problems of uneven occlusal bear , inadequate extension of the distal extension denture bases and insufficient retention before delivery of the dentures to the patient
  27. Estimate the need for denture relining after insertion and solve any failure of RPD.
  28. Compare recent methods and techniques for removable partial denture construction.
  29. Design proper treatment plan for different maxillofacial cases.
- c- Professional and practical skills:**
1. Examine intraoral soft tissue and bony structure and non-stress bearing areas that could be relieved during impression making
  2. Interpret the importance of the ridge shape and form and the shape of the palate in complete denture stability and retention
  3. Solve the problems of knife edge ridge and flat ridges during impression making
  4. Apply the functional methods used to establish jaw relation
  5. Sketch the proper lip support, proper occlusal plane height and orientation for maxillary and mandibular record blocks
  6. Translate the consequences of inadequate determination of the physiologic rest position and vertical dimension
  7. Design the most fast, easy and accurate method used to establish the centric relation
  8. Utilize functional techniques to establish a proper esthetic and phonetic for complete dentures
  9. Solve the occlusal errors during the try in stage using clinical remounting
  10. Apply the rules of selective grinding before denture delivery
  11. Practice relining or rebasing to solve problems with complete denture.
  12. Interpret the diagnostic data including the study cast and the x-ray for partially edentulous cases.
  13. Apply the principles of designing the RPD that follow the biological and

- biomechanical concepts.
14. Solve the problems of the difference in support in the free end partially edentulous cases.
  15. Analyze the factors that must be considered during the try-in of the metallic framework intraoral.
  16. Combine the state the partial edentulous arch with the state of the opposing arch to reach the precise registration of the jaw relation.
  17. Operate the occlusal errors by selective grinding before the insertion.
  18. Utilize the patient complain and the clinical examination to manage complications caused by the RPD.
  19. Solve the problems of occlusal plane discrepancies in single denture cases.
  20. Utilize remaining teeth for designing tooth overdenture.

**d- General and transferable skills**

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

- 1-Communicate with patients, colleagues, and groups in a professional and ethical manner.
- 2-Patients' education and motivation according to their mental attitude.
- 3-Work effectively in a team.
- 4-Develop time management skills
- 5-Use Modern technologies to improve workflow.
- 6-Show continuous lifelong learning abilities, through using different knowledge resources
- 7- Develop the ability to lead a team to achieve comprehensive dental care to the patients

**4- Course contents: -**

No	Topics	Week
<b>Diploma course of complete denture</b>		
1	Diagnosis and Treatment plan.	1
2	Impression techniques and theories.&special impression techniques	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.	6
8	Aesthetics in complete denture.	7
9	Insertion.	7

10	Post insertion complaints.	8
11	Retention, Support & Stability.	9& 10
12	Relining & Rebasing & Repair techniques.	11
13	Posterior Palatal seal	12
14	Modified Denture	12
15	Phonetics	13
16	Digital complete denture	13
17	Recent trends in complete denture construction	14
<b>Diploma course for Removable Partial Denture</b>		
18	Examination and evaluation of diagnostic data.	15
19	Treatment plan.	16
20	Principles of RPD.	17
21	Mouth preparation.	17
22	Impression registration Control of gagging and saliva. Special impression procedures for tooth-tissue supported RPD.	18
23	Surveyors. Removable partial denture components.	19,20 21
24	Kennedy classes and design of RPD.      Class I	22
25	Class II.	23
26	Class III.	23
27	Class IV	24
28	Aesthetics for RPD	24
29	Fitting of the framework.	25
30	Establishing of occlusal relationship for RPD	25
31	Try-in of RPD & Delivery of RPD.	26
32	Tissue damage of RPD	26
33	Stresses induced by RPD	27
34	Management of tissue damage.	27
35	Patient's complaint & Repair and addition of RPD	28

36	Recent trends of removable partial dentures	29
37	CAD/CAM of removable partial dentures	30
<b>Diploma Course for Maxillofacial</b>		
38	Obturator for congenital cleft palate.	31
39	Obturator for acquired cleft palate.	32& 33& 34
40	Stents & Splints.	35
41	Prosthetic management of irradiated patients.	36
42	Implants of maxillofacial Prosthesis	36
<b>Diploma special course</b>		
43	Immediate Dentures	37
44	Attachment retained removable partial denture (intracoronal)	38
45	Attachment retained overdenture (stud & Bar)	39
46	Single denture I	40
47	Single denture II	41
48	Tooth supported overdenture I	42
49	Tooth supported overdenture II	43
50	Implant supported overdenture I	44
51	Implant supported overdenture II	45

**5- Teaching and learning methods:-**

S	Method	Basic knowledge	Intellectual skills	Professional skills	General skills
1	Lectures	√	√	-	√
2	Clinical demonstration	-	√	√	√

## 6- Teaching and learning methods of disables :-

1. No methods

## 7- Activities and sources of teaching and learning :-

S	Activities and resources	Basic knowledge	Intellectual skills	Professional skill	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

N	Method	Basic knowledge	Intellectual skills	Professional skills	General skills
1	Written exam	√	√	-	
2	Oral exam	√	√	-	√
3	Clinical exam	-	√	√	√

### b- Assessment schedule

No	Method	Week
1	Written exam	Held on November And April
2	Oral exam	
3	Clinical exam	

### c- Weighting of assessments

No	Method	Weight	Proportions
1	Written examination(first and second Paper)	140	29.78%
2	Clinical examination	60	12.76%
3	Practical examination	220	46.8%
4	Oral examination	50	10.63
	Total	470	100%

### 9- List of references

S	Item	Type
1	1. Clinical notes of complete denture. (Department of removable prosthodontics, Faculty of Dentistry, Mansoura University).(In Press)	Notes
2	2. Textbook of Complete Dentures. Zarb.	Textbook
3	3. Textbook of Complete Dentures. Winkler	Textbook
4	4. Clinical notes of removable partial denture. (Department of removable prosthodontics, Faculty of Dentistry, Mansoura University).In press	Notes
5	5. Carr AB, and David T. BrownMcCracken's Removable Partial Prosthodontics - Elsevier E-Book on VitalSource, 12th Edition. 2011.	Textbook
6	6. Phoenix RD, Cagna DR, DeFreest CF: Stewart's Clinical Removable Partial Prosthodontics. fourth Edition. Quintessence Publishing Co, Inc. 2008	Textbook
7	7. Journal of prosthetic dentistry	Scientific journal

### 10- Matrix of knowledge and skills of the course

#### 4- Course contents: -

No	Topics	Basic knowledge	Intellectual skills	Professional skills	General skills
<b>Diploma course of complete denture</b>					
1	Diagnosis and Treatment plan.	a.1	b.1	c.1	d.1 d.2 d.3
2	Impression techniques and theories.&special impression techniques	a.2	b.2	c.2 c.3	d.1 d.2 d.4 d.6
3	Mandibular movements & Articulators	a.3	b.4 b.5	c.4	d.1 d.2 d.5
4	Face bow and graphic tracing.	a.4	b.5	-	d.1 d.2 d.5



5	Jaw relations.	a.3	b.4	c.4 c.5 c.6 c.7	d.1 d.2
6	Try- in.	a.6	b.7	c.9	d.1 d.2
7	Occlusion theories and concepts.	a.9	b.3	c.4	d.1 d.2 d.6
8	Aesthetics in complete denture.	a.5	b.6	c.8	d.1 d.2
9	Insertion.	a.7	b.7	c.10	d.1 d.2
10	Post insertion complaints.	a.7 a.8	b.7	c.10	d.1 d.2
11	Retention, Support & Stability.	a.1	b.9	-	d.1 d.2
12	Relining & Rebasings & Repair techniques.	a.10	b.8	c.11	d.1 d.2
13	Posterior Palatal seal	a.1	b.10	-	d.1 d.2
14	Modified Denture	a.11	b.11	-	d.1 d.2
15	Phonetics	a.5	b.6	c.8	d.1 d.2
16	Digital complete denture	a.12	b.11	-	d.1 d.2 d.5
17	Recent trends in complete denture construction	a.11	b.11 b.12	-	d.1 d.2 d.5
<b>Diploma course of partial denture</b>					
18	Examination and evaluation of diagnostic data.	a.15 a.16	b.14	c.12	d.1 d.2
19	Treatment plan.	a.15 a.16	b.14 b.15	c.12	d.1 d.2 d.3
20	Principles of RPD.	a.19	b.16	c.13	d.1 d.2
21	Mouth preparation.	a.17	b.15 b.16	c.13	d.1 d.2

22	Impression registration Control of gagging and saliva. Special impression procedures for tooth-tissue supported RPD.	a.18	b.17	c.14	d.1 d.2 d.4
23	Surveyors. Removable partial denture components.	a.20	b.18	-	d.1 d.2
24	Kennedy classes and design of RPD. Class I	a.19	b.16 b.19 b20 b.21	c.13 c.14	d.1 d.2
25	Class II.	a.19	b.16 b.19 b20 b.21	c.13 c.14	d.1 d.2
26	Class III.	a.19	b.16 b.19 b20 b.21	c.13 c.14	d.1 d.2
27	Class IV	a.19	b.16 b.19 b20 b.21	c.13 c.14	d.1 d.2
28	Aesthetics for RPD	a.23	b.24		d.1 d.2
29	Fitting of the framework.	a.21	b.22	c.15	d.1 d.2
30	Establishing of occlusal relationship for RPD	a.22	b.23	c.16	d.1 d.2
31	Try-in of RPD & Delivery of RPD.	a.24 a.25	b.25 b.26	c.17 c.18	d.1 d.2
32	Tissue damage of RPD	a.26	b.26	c.18	d.1 d.2
33	Stresses induced by RPD	a.26	b.26	-	d.1 d.2
34	Management of tissue damage.	a.26	b.26	c.18	d.1 d.2
35	Patient's complaint & Repair and addition of RPD	a.26 a.27	b.26	c.18	d.1 d.2
36	Recent trends of removable partial dentures	a.28	b.28	-	d.1 d.2 d.3 d.5
37	CAD/CAM of removable partial dentures	a.28	b.28	-	d.1 d.2 d.3 d.5
<b>Diploma course of maxillofacial</b>					
38	Obturator for congenital	a.30	b.27	-	d.1 d.2

	cleft palate.				d.3 d.7
39	Obturator for acquired cleft palate.	a.30	b.27	-	d.1 d.2 d.3 d.7
40	Stents & Splints.	a.31	b.27	-	d.1 d.2 d.3
41	Prosthetic management of irradiated patients.	a.32	b.27	-	d.1 d.2 d.3
42	Implants of maxillofacial Prosthesis	a.30	b.27	-	d.1 d.2 d3
<b>Diploma special course</b>					
43	Immediate Dentures	a.29	b.13	-	d.1 d.2
44	Attachment retained removable partial denture (intracoronal)	a.34	b.13	-	d.1 d.2
45	Attachment retained overdenture (stud & Bar)	a.34	b.13	c.20	d.1 d.2
46	Single denture	a.3	b.13	c.19	d.1 d.2
47	Tooth supported overdenture	a.33	b.13	c.20	d.1 d.2
48	Implant supported overdenture	a.33	b.13	-	d.1 d.2 d.7

**Course Coordinator(s): -**  
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