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- a.9 Identify the basic of provisional restorations.
  - a.10 Review esthetic considerations, color and shade matching. B) Intellectual skills :
  - b.1 Formulate the basic principles of comprehensive diagnosis and treatment plane.
  - b.2 Inspect the different designs and techniques in construction of fixed prosthesis.
  - b.3 Categorize the criteria for a successful restoration and to criticize and evaluate a finished fixed restoration.
  - b.4 Manage acceptably all of the clinical procedures involved in fixed prosthodontics construction.
  - b.5 Measure features of periodontal compromised abutments.
  - b.6 Compare the different laboratory techniques in crown and bridge construction.
  - b.7 Assess critically on one's own practical and academic work.
  - b.8 Value critically own and other research.

c) Professional and practical skills:

- c.1 Practice adequate number of cases that will be arranged to assure that the student acquires adequate training in these areas of prosthodontics.
- c.2 Show clinical sessions which are the means of meeting the prescribed clinical requirements of the graduate students.
- c.3 Use technical difficulties that may be encountered during treatment plan.
- c.4 Analyze the strong component of the clinical session is the "Log Book" in which the details of a comprehensive prosthodontics care must be entered and be open or accessible for evaluation by the teaching staff.
- c.5 Demonstrate lost functions of stomato-gnathic system namely mastication, speech, appearance and psychological comforts, by understanding biological, biomedical, bioengineering principles
- c.6 Operate clinical and laboratory procedures with understanding of biomaterials, tissue conditions related to prosthesis and have competent dexterity and skill for performing clinical procedures in crown & bridge.
- c.7 Infer effectively with team members.

d) General and transferable skills :

- d.1 Utilize of IT including word processing and power point.
- d.2 Develop Written and oral presentations.
- d.3 Utilize Clinical photography

#### 4. Course contents: -

<b>No</b>	<b>Topics</b>	<b>Week</b>
1	Diagnosis and treatment plan.	1,2
2	Bridge design	3,4
4	Biological and periodontal consideration in tooth preparation.	5,6
5	Mechanical, esthetic consideration in tooth preparation.	7,8,9
6	Tissue management prior to impression making.	10,11,12
7	Impression materials and techniques.	13,14,15
	Provisional restorations	16,17,18
8	Esthetic considerations in fixed prosthodontics	19,20,21,22
9	Color and shade guide selection	23,23,24,25
10	Restoration of mutilated endodontically treated teeth.	26,27,28,29
11	Advanced ceramics (Materials and techniques)	30,31,32,33,34,35
12	Pontic design for fixed prostheses.	36,37
13	Laminate veneers	38,39,40
14	Working cast and dies	41
15	Spruing and investing	42
16	Casting and casting defects	43,44,45

#### 5- Teaching and learning methods:-

<b>S</b>	<b>Method</b>	<b>Basic knowledge</b>	<b>Intellectual skills</b>	<b>Professional skills</b>	<b>General skills</b>
1	Lectures	√	√		
2	Practical demonstration	√		√	√
3	Case description	√	√	√	√
4	Power point presentation			√	√

5	Live show demonstration			√	√
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**6- Teaching and learning methods of disables :-**

None

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

S	Activities and resources	Basic knowledge	Intellectual skills	Professional skills	General skills
1	Requirements			√	√
2	Poster presentation			√	√
3	Seminars	√	√		√
4	Workshops			√	√
5	Conference	√	√		√

**\* Resources :**

( Dental clinics equipped with units and instruments – Laboratory – Library )

**a- Student assessment methods**

No	Method	Basic knowledge	Intellectual skills	Professional skills	General skills
1	Written examination	√	√		
2	Oral examination	√	√		√
3	Practical examination		√	√	
4	Clinical examination			√	√

**b- Assessment schedule**

No	Method	Week
1	Written exam	June or November
2	Oral examination	June or November
3	Practical examination	June or November
4	Clinical examination	June or November

**c- Weighting of assessments**

No	Method	Weight	Proportion
1	Written exam	125	50 %
2	Oral examination	35	14 %
3	Clinical examination	90	36 %
	Total	250	100 %

### 9- List of references

S	Item	Type
1	A- Course Notes	- Lecture's power points
2	B- Essential Books (Textbooks):	- Contemporary Fixed Prosthodontics, 5 <sup>th</sup> edition 2015 by Rosenstiel. - Fundamentals of fixed prosthodontics, 4 <sup>th</sup> edition 2013 by Herbert T. shillingburg.
3	C- Recommended Books:	- Prosthetic dental journal. - J.F Dental materials journal. - A Mercian dental association.
4	D- Periodicals, websites, etc.	<a href="http://www.pubmed.com">www.pubmed.com</a> <a href="http://www.sciencedirect.com">www.sciencedirect.com</a> <a href="http://www.blackwell.com">www.blackwell.com</a>

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

S	Items	Details	Basic knowledge	Intellectual skills	Professional skills	General skills
1	Course contents	Diagnosis and treatment plan.	a.1 a.2	b.1	c.1 c.2 c.4	d.1 d.2 d.3
		Bridge design	a.1 a.2	b.2	c.1 c.2 c.3 c.4 c.7	d.1 d.2 d.3
		Biological and periodontal consideration in tooth preparation.	a.3 a. 6	b.5	c.5	d.1 d.2 d.3
		Mechanical, esthetic consideration in tooth preparation.	a.3 a.6			d.1 d.2 d.3
		Tissue management prior to impression making.	a.5 a.6	b.3		d.1 d.2 d.3
		Impression materials and techniques.	a.5 a.6		c.4	d.1 d.2 d.3
		Provisional	a.9	b.4	c.4	d.1 d.2 d.3

	restorations				
	Esthetic considerations in fixed prosthodontics	a.10	b.7		d.1 d.2 d.3
	Color and shade guide selection	a.10	b.7		d.1 d.2 d.3
	Restoration of mutilated endodontically treated teeth.	a.7			d.1 d.2 d.3
	Advanced ceramics (Materials and techniques)	a.4			d.1 d.2 d.3
	Pontic design for fixed prostheses.	a.4	b.6	c.6	d.1 d.2 d.3
	Laminate veneers	a.8	b.8		d.1 d.2 d.3
	Working cast and dies	a.4	b.6	c.6	d.1 d.2 d.3
	Spruing and investing	a.4	b.6	c.6	d.1 d.2 d.3
	Casting and Casting defects	a.4	b.6	c.6	d.1 d.2 d.3

**Course Coordinator(s): -**  
Dr. Lamiaa Dawood  
Dr. Waleed Abd El Ghafar

**Head of department: -**  
Prof Dr. Mohamed Ghazy