

Faculty of Oral & Dental Medicine

Fixed Prosthodontics Technology

Information :

Course Code : FPROS 312 **Level :** Undergraduate **Course Hours :** 3.00- Hours

Department : Faculty of Oral & Dental Medicine

Area Of Study :

“To educate the students about the basics of different principles of tooth preparation to receive veneered crown restorations.

“To enable the students to understand the different technical laboratory steps (dies , wax pattern , spruing , investing , and casting procedures).

Description :

- 1 Working casts and dies
- 2 Wax patterns methods and techniques .
- 3 Different metal alloys used for casting
- 4 Spruing
- 5 Investing
- 6 Casting and casting errors

Course outcomes :

a. Knowledge and Understanding: :

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| 1 - | a1- Define the different principles of tooth preparation to receive veneered crown restorations |
| 2 - | a2- classify different types of dental casting alloys. |
| 3 - | a3- Identify the different technical laboratory steps employed in construction of cast metal restorations. |

b. Intellectual Skills: :

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| 1 - | b1- select properly different materials suitable for casting of different casting alloys. |
| 2 - | b2- Identify different causes of casting failure. |

c. Professional and Practical Skills: :

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| 1 - | c1- construct wax pattern for full veneer metal crown |
| 2 - | c2- construct wax pattern for veneered crown |
| 3 - | c3- construct wax pattern for all- ceramic crown |

d. General and Transferable Skills: :

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| 1 - | D1. Recognize the value and role of lifelong learning, self assessment and critical thinking in maintaining competency |
| 2 - | D2. Manage time effectively |

3 - D3. Use IT resources effectively.

Course Topic And Contents :

Topic	No. of hours	Lecture	Tutorial / Practical
Working casts and dies			
Wax patterns methods and techniques .			
Different metal alloys used for casting			
Spruing			
Investing			
Casting and casting errors			

Teaching And Learning Methodologies :

Lectures
Laboratory sessions.
Demonstrations.
Practical requirement