

Integrated Course in Occlusion
Second Year AY 2023/24
Term I (3.7.23 - 1.9.23) 9 weeks

PREPARATORY READING FOR LECTURES

Date	Lecture Topic	Reference Material
Week 1 5.7.23 (Tues)	The occlusal interface: Structural and neurophysiologic considerations. What is an occlusal interference?	Okeson Chap 17, 19 Mohl Chapter 21 Zarb Chapter 15 Wiskott Chapter 4
Week 1 6.7.23 (Wed)	Vertical Dimension in relation to Removable Prosthodontics Dimension	-
Week 2 12.7.23 (Tues)	Eccentric Pathways: Registration and coordination	Okeson Chap 18 Mohl Chapter 9 Shillingburg Chapter 12 Zarb Chapter 17 Wiskott Chapter 5 , 17
Week 2 13.7.23 (Wed)	Occlusal Considerations in Removable Prosthodontics	-
Week 3 19.7.23 (Tues)	Determinants of Occlusal Morphology	Okeson Chap 6
Week 3 20.7.23 (Wed)	Mandibular Motion Envelopes; VIDEO on Functional Jaw Movements	Lundeen & Gibbs Chapter 1
Week 4 26.7.23 (Tues)	NO CLASS <NUS Orientation Week –One>	
Week 4 27.7.23 (Wed)	NO CLASS < NUS Orientation Week –One>	
Week 5 2.8.23 (Tues)	NO CLASS <NUS Orientation Week Zero> NUS Rag Day Preparations	
Week 5 3.8.23 (Wed)	NO CLASS <NUS Orientation Week Zero> NUS Rag Day Preparations	
Week 6 9.8.23 (Tues)	<i>[PUBLIC HOLIDAY]</i>	
Week 6 10.8.23 (Wed)	Anterior Guidance: Recording Anterior Determinants; Dentate and edentulous situations	Okeson Chap 6
Week 7 16.8.23 (Tues)	Criteria for Optimum Functional Occlusion	Okeson Chapter 5
Week 7 17.8.23 (Wed)	Occlusal Schemes: Natural vs. Iatrogenic; Rationale for selection	Mohl Chap 12
Week 8 23.8.23 (Tues)	Tutorial: Whole Class: The Artex Articulator System	-
Week 8 24.8.23 (Wed)	<i>[NO LECTURE]</i>	
Week 9 30.8.23 (Tues)	END OF COURSE TEST	-
Week 9 31.8.23 (Wed)	Overview of Temporo-Mandibular Disorders (TMD)	Okeson Chaps 7, 8 , 9 , 10, 11

READING LIST - OCCLUSION and TMD

Recommended Textbook

Okeson J P : **Management of Temporomandibular Disorders and Occlusion**. 7th Edition. Elsevier Mosby, St Louis/Baltimore/Philadelphia/ Toronto, 2012

LATEST Ed: 8th Edition. Elsevier Mosby, St Louis/Baltimore/Philadelphia/ Toronto, April 2019

Recommended Reference Textbook

Mohl N D, Zarb G A , Carlsson G E, Rugh J D : **A Textbook of Occlusion**. Quintessence Publishing Co. Inc., Chicago/London/Berlin/Sau Paulo/Tokyo/ Hong Kong, 1998.

Required Additional Reading

Wiskott H W A. **Fixed Prosthodontics: Principles and Clinics**. Quintessence Publishing Co Ltd. 2011. Chapter 4: Forces and Mastication, pp. 69-96; Chapter 5: Mandibular Movements and Functional Occlusion, pp. 97-126 and Chapter 17: Occlusal Relationships, pp. 581-614.

Shillingburg H T, Hobo S, Whitsett L D : **Fundamentals of Fixed Prosthodontics**. 3rd Edition, Quintessence Publishing Co. Inc., Chicago, 1997. Chapters 2: Fundamentals of Occlusion, pp. 55-78; Chapter 12: Articulation of Casts, pp. 259-299 and Chapter 13: Wax Patterns, pp. 299-326.

Rosentiel, SF, Land, MF and Fujimoto, J: **Contemporary Fixed Prosthodontics**. 4th Edition. The C.V. Mosby Company. St. Louis, Toronto, London, 2006. Chapter 3: Principles of Occlusion; pp 65-84.

Lundeen, HC and Gibbs, CH, **Advances in Occlusion**. John Wright and Sons Ltd., London, 1993. Chapter 1 pp 2-32

Lundeen, HC, and Gibbs, CH. **The Function of Teeth. The physiology of mandibular function related to occlusal form and esthetics**. L & G Publishers, 2005.

Zarb GA, Bergman B, Clayton JA, MacKay HF (Eds). **Prosthodontic Treatment for the partially edentulous patient**. Mosby St Louis. 12th Edition. 2003 Chapter 16: Various centric positions and methods of recording them. Chapter 17: Articulators in restoring occlusion. Chapter 15: The consequences of occlusal interferences. pp 171-187, 188-208 and 161-170.

Malone WFP, Koth DL, Cavazos E, Kaiser DA, Morgano SM, Eds. **Tylman's Theory and Practice of Fixed Prosthodontics**, 8th Edition, Ishiyaku EuroAmerica Inc., St Louis, 1999, Chapter 14: Occlusion pp 301-323.

DuBrul EL: **Sicher and DuBrul's Oral Anatomy**, 8th Edition. Ishiyaku EuroAmerica Inc., St Louis, 1998. Chapter 1: pp 54-58; Chapter 4: pp 104-132; Chapter 5: pp 133-159; Chapter 17: pp 319-329.

<https://www.amangirrbach.com/en/products/articulation/artex-cr/>

<https://www.amangirrbach.com/en/products/articulation/artex-facebow>

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https://www.amangirrbach.com/fileadmin/agweb_2013/media/mediathek/Print/Instructions/Equipment/Model_fabrication_Articulation/Artex_CR_INT.pdf

https://www.amangirrbach.com/fileadmin/agweb_2013/media/mediathek/Print/Instructions/Equipment/Model_fabrication_Articulation/Artex_Gesichtsbogen_Facbebow_Anleitung_Instruction_INT.pdf

https://www.amangirrbach.com/fileadmin/agweb_2013/media/mediathek/Print/Instructions/Equipment/Model_fabrication_Articulation/Artex_Uebertragungsstand_INT.pdf

Additional References - Advanced

McNeill, C (Ed). **Science and Practice of Occlusion**, Quintessence Publishing Co. Inc., Chicago/London/Berlin/Tokyo, 1997.

Okeson JP, Ed. ***Bell's Orofacial Pains: The Clinical Management Of Orofacial Pain***, 6th Ed. Quintessence Publishing Co. Inc., Chicago / London / Berlin / Tokyo, 2005.

Zarb GA, Carlsson GE, Sessle BJ, Mohl ND Eds. ***Temporomandibular Joint and Masticatory Muscle Disorders. 2nd Edition***. Mosby, St. Louis, Toronto, London, 1995.

Sarnat BG, Laskin DM. ***The Temporomandibular Joint – A Biological Basis for Clinical Practice***, 4th Ed., W. B. Saunders Co., Philadelphia, 1992.

Okeson JP, Ed. ***Orofacial Pain – Guidelines for Assessment, Diagnosis and Management***, 6th Ed Quintessence Publishing Co. Inc., Chicago/London/Berlin/Tokyo, 1996.

McNeill, C. ***Craniomandibular Disorders - Guidelines for Evaluation, Diagnosis and Management – The American Academy of Craniomandibular Disorders***, Quintessence Publishing Co. Inc., Chicago / London / Berlin / Tokyo, 1990.

McNeill, C. ***Current Controversies in Temporomandibular Disorders***, Quintessence Publishing Co. Inc., Chicago/London/Berlin/Tokyo, 1992.