



HHA 307: ORAL BIOLOGY

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Thematic head: [Prof. Jameela Hassanali](#) [8]

COURSE DESCRIPTION

This is the study of the development, structure and functions of the structures within the oral cavity at different ages and physiological status.

COURSE CONTENT

Introduction to Oral Biology/Introduction to functions of Oral Cavity, Dentition/Tooth in situ: Tooth Morphology/Chronology, Incisors, Canines, Premolars, Molars, Deciduous Dentition, Clinical relevance/Forensic odontology, Mastication/swallowing, Imaging/Dental radiology, Cephalometry, Biology of aging, Stress in Dental Practice, Effect of Diet/Hormones, Comparative dental anatomy/Hominid evolution, Development biology: Development of the crown and root, Development and Structure of Attachment tissues, Cementum/ Alveolar bone, Development of facial region, Development Jaws – skull/occlusion.

Microscopic anatomy: Enamel, dentine, pulp, dentine pulp complex, Periodontal ligament,

Attachment tissue changes /function, eruption/orthodontic, Eruption and (shedding of deciduous teeth), Fluorosis, Integuments of teeth/plaque, calculus, staining, Oral Mucosa/Gingivae Dental Biochemistry: Chemical composition of dental tissues, C PO₄ Metabolism, Collagen and mineralization, saliva.

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