



## 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 deciduas teeth), Fluorosis, Integuments of teeth/plaque, calculus, staining, Oral Mucosa/Gingivae Dental Biochemistry: Chemical composition of dental tissues, C PO<sub>4</sub> Metabolism, Collagen and mineralization, saliva.

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