

## Orthodontics

4<sup>th</sup> Year

### **Course Objectives:**

The course is directed towards achieving specific educational goals. The predoctoral student should:

1. Understand the significance of the major concepts of facial growth and development. He/she should be able to recognize the importance of coordinating treatment timing as it coincide with facial and somatic growth.
2. Be able to recognize and evaluate the proper eruption pattern of a given patient as it relate to his chronologic and skeletal age.
3. Be able to understand the different dimensional changes in arch length and width during the transition from primary to mixed and onto the permanent dentition.
4. Be able to perform and evaluate space analysis for the mixed and permanent dentition as part of a diagnostic procedure during treatment planning.
5. Be able to understand the etiology of orthodontic problems.
6. Understand the fundamentals of orthodontics removable appliances.
7. Should have knowledge about the biology of tooth movement and full understanding of the applied forces to the teeth. Also be able to identify problem during orthodontic treatment to ensure healthy bone, gingival and periodontal ligament.
8. Be able to understand basic mechanics of tooth movement and it's relevance in clinical application.