Orthodontics

[Keywords] Multibracket appliance, typodont practice

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[Course aims]

The specialty of orthodontics is concerned with the study and treatment of malocclusions, which may be a result of tooth irregularity, a disproportionate jaw relationship, or orofacial malfunction. Orthodontic treatment focuses not only on dental and occlusal problems, but also deals with the control and modification of maxillofacial growth and morphology. High-quality outcomes of orthodontic treatment can only be accomplished with comprehensive knowledge about growth and development of the maxillofacial region, occlusion, materials sciences, and the diagnostics and therapeutics of malocclusion. In this course, students are expected to obtain the skill and knowledge needed for basic and clinical research and to provide orthodontic treatments.

[Course objectives]

The objectives of this course are for students to be able to:

- 1. Make an orthodontic diagnosis and provide treatment based on knowledge and skills obtained.
- 2. Explain the causes of malocclusion and treatment methods.
- 3. Make an orthodontic diagnosis.
- 4. Understand and carry out basic research in orthodontics.
- 5. Acquire knowledge about the structures and mechanisms of orthodontic appliances.
- 6. Understand the structures of orthodontic appliances and fabricate them.
- 7. Perform orthodontic treatment using a multibracket appliance.

[Course content]

Class	Theme	Content	Academics
1	Classroom lectures	1) Skills and knowledge needed for orthodontic diagnosis 2) Skills and knowledge needed for orthodontic treatment 3) Conference presentation and writing a research paper 4) Attendance at case conferences (once per week) 5) Gathering to read and discuss research papers (once per week)	
2	Practical courses focused on understanding multibracket treatment.	1) Typodont practice with an Angle Class II non-extraction case 2) Typodont practice with an Angle Class I extraction case 3) Inspection and assistance with orthodontic treatment 4) Actual practice of orthodontic treatment	

[Grading policies]

Your overall grade in class will be decided based on class attendance and reports.

[Textbook]

Students will be informed of which textbook to use

[Reference book]

Students will be informed of which reference book to use

[Preparation for course]

Students must understand the course objectives and prepare appropriately for the classes.