



ATTACHMENT 5.

T6. COURSE SPECIFICATIONS (CS)

Course title: Orthodontics1
Course Code: 415 VDS
Level: 10
1439-2017

Course Specifications

| | |
|--------------------------------|-------------------|
| Institution: NAJRAN UNIVERSITY | Date : 5/ 5/ 2018 |
| College/ College of Dentistry | |

A. Course Identification and General Information

| | | | |
|---|-------------------------------------|------------------|---------------------------------|
| 1. Course title and code : Orthodontics1- 415 VDS. | | | |
| 2. Credit hours: 3 (2 Th.+1Pr.) hours. | | | |
| 3. Program(s) in which the course is offered. Bachelor of Dental Surgery (BDS). (If general elective available in many programs indicate this rather than list programs) | | | |
| 4. Name of faculty member responsible for the course: Dr/ Bandar Alyami. | | | |
| 5. Level/year at which this course is offered :Level 10 /4 th year (after preparatory year) | | | |
| 6. Pre-requisites for this course (if any) : None | | | |
| 7. Co-requisites for this course (if any) : None | | | |
| 8. Location if not on main campus : None | | | |
| 9. Mode of Instruction (mark all that apply) | | | |
| a. Traditional classroom | <input checked="" type="checkbox"/> | What percentage? | <input type="text" value="60"/> |
| b. Blended (traditional and online) | <input type="checkbox"/> | What percentage? | <input type="text"/> |
| c. e-learning | <input checked="" type="checkbox"/> | What percentage? | <input type="text" value="10"/> |
| d. Correspondence | <input type="checkbox"/> | What percentage? | <input type="text"/> |
| f. Other: Practical | <input checked="" type="checkbox"/> | What percentage? | <input type="text" value="30"/> |
| Comments: No comments | | | |

B Objectives

1. What is the main purpose for this course?
It is an introductory course to orthodontics, composed of two parts; theoretical and practical parts. This syllabus is suggested with a view to make the student understand the types of cases he can select for treatment as a general practitioner and how best he can guide the patient and parents. Hence stress should be on the preventive and interceptive principles of orthodontics.
By the end of the semester we expect the students will have:
 - An idea about the normal growth and development of the maxillofacial complex.
 - An ability to determine the normal occlusion and malocclusion and their etiology.
 - An ability to fabricate elements for removable appliance (Hawley Appliance).
2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field):
 - Organize field visits for collecting data from school children.
 - Increase the use of different forms and methods of active learning.

C. Course Description (Note: General description in the form used in Bulletin or handbook)

Course Description:

The course is given in two parts: theory and practical. the students have to attend, set for exam and pass the overall results. They have to submit a complete Hawley appliance by the end of semester.

| 1. Topics to be Covered | | |
|--|--------------|---------------|
| List of Topics | No. of Weeks | Contact Hours |
| Introduction to Orthodontics | 1 | 2 |
| Growth of Maxillofacial Complex | 1.5 | 3 |
| Development of Dentition | 1.5 | 3 |
| Occlusion in Orthodontics | 1.5 | 3 |
| Classification of Malocclusion | 1 | 2 |
| Etiology of Malocclusion | 1 | 2 |
| Oral Bad Habits and Their Management | 1 | 2 |
| Case History and Clinical Examination | 1 | 2 |
| Diagnostic Radiographs and Photographs | 1 | 2 |
| Cephalometric Landmarks and Analysis | 1.5 | 3 |
| Study Cast Analysis | 1.5 | 3 |
| Biology & Types of Tooth Movement | 1.5 | 3 |
| Total | 15 | 30 |

| Practical session | | |
|----------------------------------|--------------|---------------|
| Sessions | No. of weeks | Contact Hours |
| Simple wire bending | 2 | 4 |
| Finger spring | 1 | 2 |
| Simple Z spring | 1 | 2 |
| Adams clasp | 2 | 4 |
| Labial arch | 2 | 4 |
| Acrylization | 1 | 2 |
| Cephalometric tracing & analysis | 2 | 4 |
| Study cast analysis | 2 | 4 |
| Requirement submission | 2 | 4 |

2. Course components (total contact hours and credits per semester):

| | | Lecture | Tutorial | Laboratory/ Studio | Practical | Other: | Total |
|---------------|---------|---------|----------|-----------------------|-----------|--------|-------|
| Contact Hours | Planned | 30 | | 30 | | | 60 |
| | Actual | 30 | | 30 | | | 60 |
| Credit | Planned | 2 | | 1 | | | 3 |
| | Actual | 2 | | 1 | | | 3 |

3. Additional private study/learning hours expected for students per week.

3 Hrs.

| | NQF Learning Domains And Course Learning Outcomes | Course Teaching Strategies | Course Assessment Methods |
|------------|--|----------------------------|--------------------------------|
| 1.0 | Knowledge | | |
| 1.1 | List types of maxillofacial complex growth and enumerate the features of normal occlusion and general and local etiologic factors of malocclusion. | Lectures | Written Exam |
| 1.2 | Record the features of different stages of dentitions and define the anatomical landmarks. | Lectures | Written Exam |
| 2.0 | Cognitive Skills | | |
| 2.1 | Explain the mechanisms of development of malocclusion and the tooth movement. | Lectures | Written Exam |
| 2.2 | Explain the function of components of orthodontic appliance and the effects of oral bad habits. | Lectures Practical | Written Exam Practical Exam |

| | | | |
|------------|---|---|--|
| 3.0 | Interpersonal Skills & Responsibility | | |
| 3.1 | Illustrate the responsibility and demonstrate the ability to share the information and professional opinions. | Lectures Practical Group discussion | Written Exam Practical Exam |
| 4.0 | Communication, Information Technology, Numerical | | |
| 4.1 | Demonstrate how to measure the overjet and over bite and illustrate the location of different landmarks. | Lectures Practical | Written Exam Practical Exam |
| 4.2 | Assess the diagnostic data and interpret the cephalometric and cast analysis | Lectures Practical | Written Exam Practical Exam |
| 5.0 | Psychomotor | | |
| 5.1 | Construct elements of a removable appliance and make the cephalometric analysis. | Practical | Practical Exam Requirement evaluation |

| 5. Schedule of Assessment Tasks for Students During the Semester | | | |
|--|---|-------------|--------------------------------|
| | Assessment task (e.g. essay, test, group project, examination, speech, oral presentation, etc.) | Week Due | Proportion of Total Assessment |
| 1 | Quizzes | 4,6,8,10,12 | 10 |
| 2 | Midterm (practical) | 7 | 10 |
| 3 | Midterm (written) | 9 | 20 |
| 4 | Requirement (Hawley appliance) | 15 | 10 |
| 5 | Final (practical) | 16 | 20 |
| 6 | Final (written) | 17 | 30 |
| | Total | | 100% |

D. Student Academic Counseling and Support

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week):

- **Dr. Bandar Alyami**
Office No.: SF 170
Office Hours: **3 Hrs.**
E-mail: bandar_s_1@hotmail.com
Landline: 017/5428967
- **Dr. Ahmed Alassiry**
Office No.: SF 168
Office Hours: **3 Hrs.**
E-mail: ahmedassiry@hotmail.com
Landline: 017/5427291
- **Dr. Maktoom Alqadi**
Office No.: SF 171
Office Hours: **3 Hrs.**
E-mail: m73827842@yahoo.com
Landline: 017/5428541

E Learning Resources

1. List Required Textbooks

- Orthodontics: The Art and Science 3rd edition; by S. I. Bhalajhi, Arya (Medi) Publishing House- New Delhi, India, 2004
- Text Book of orthodontics 2nd edition; by G. Singh, Jaypee Brothers Medical Publishers, 2007

2. List Essential References Materials (Journals, Reports, etc.):

- Contemporary Orthodontics 5th edition; by W. Proffit, Publishing Services Manager, 2007

3. List Electronic Materials (eg. Web Sites, Social Media, Blackboard, etc.)

- Saudi Digital Library SDL
- Orthodontic Journals
- Blackboard.
- www.youtube.com

4. Other learning material such as computer-based programs/CD, professional standards or regulations and software.

- None

F. Facilities Required

| |
|---|
| Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access etc.) |
| 1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.) - One classroom of 30 seats facilitated with internet access and white board. - One lab. integrated with digital camera and screens. |
| 2. Computing resources (AV, data show, Smart Board, software, etc.): - Data show. - Digital camera. - Screens. |
| 3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list): - Orthodontic Lab. - Orthodontic pliers - Orthodontic wires of different sizes - Tracing papers - Dental casts - Calipers - Pencils |

G Course Evaluation and Improvement Processes

| |
|--|
| 1. Strategies for Obtaining Student Feedback on Effectiveness of Teaching: - Class discussion. - Questionnaire. - Exam results. |
| 2. Other Strategies for Evaluation of Teaching by the Program/Department Instructor - Peer evaluation. |
| 3. Processes for Improvement of Teaching: - Attending related workshops and conferences. - Searching through effective websites - Reading related books and articles. |
| 4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution): - planning to collaborate with other dental college for peer review. |

5 Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.

Reevaluation every two years at least.

Periodic check for the topics covered.

Matching the students complains with the topics covered.

Evaluation of the outcomes achieved with the topics covered.

Evaluation of students results in Saudi Commission for Health specialties

Name of Course Instructor: Dr. Bandar Alyami.

Signature: Dr. Bandar Alyami Date Specification Completed: **5/ 5/ 2018**

Program Coordinator: Abdelnasser Emam

Signature Abdelnasser Emam Date Received: **5/ 5/ 2018**