

*Republic of Iraq
Ministry of Higher Education & Scientific
Research Supervision and Scientific
Evaluation Directorate Quality Assurance
and Academic Accreditation International
Accreditation Dept.*

Academic Program Specification Form

*University: Tikrit
College :Dentistry
Department : orthodontics
Date Of Form Completion: 15 / 2 /2024*

Dean 's Name

Date : / /

Signature

*Dean 's Assistant
For Scientific
Affairs*

*Date : / /
Signature*

*The College Quality
Assurance And University
Performance Manager
Date : / /
Signature*

*Quality Assurance And University Performance
Manager Date : / /
Signature*

TEMPLATE FOR PROGRAMME SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

PROGRAMME SPECIFICATION

This Program Specification provides a concise summary of the main features of the program and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It is supported by a specification for each course that contributes to the program.

1. Teaching Institution	Tikrit University
2. University Department/Centre	Collage of dentistry
3. Program Title	Orthodontics
4. Title of Final Award	Bachelor's degree in Oral and Dental Medicine and Surgery
5. Modes of Attendance offered	Academic Lectures and clinical training on patients
6. Accreditation	Central (Ministry of Higher Education and Scientific Research)
7. Other external influences	Summer training at the Teaching Hospital of the College of Dentistry / Tikrit University
8. Date of production/revision of this specification	2023-2024
9. Aims of the Program	
1- Providing the student with a knowledge skill about the basic concepts of community dentistry in general	
2- It is concerned with introducing the student to dealing with the individual within the family, with knowledge of preventive methods and the ability to diagnose and treat.	
3- Providing the student with information about achieving the connection with the patient within the family in terms of physical, social and psychological aspects	
4. Definition of the importance of Preventive Dentistry and applications for individuals and society, and in particular to the widespread diseases such as dental diseases	

10. Learning Outcomes, Teaching, Learning and Assessment Methods

A- Cognitive goals .

- A1.** give information to students in a manner enabling understanding and increased knowledge regarding the diagnosis and treatment of various diseases, mouth and teeth of children
- A2.** Give instructions for the care of teeth and health education for the prevention of dental caries and gingival disease
- A3.** Give guidelines and programs for preventive oral health for seniors people **A4**Give guidelines and programs for preventive oral health for people with special needs
- A5.** giving instructions on how to deal with children of different behavior

B. The skills goals special to the course.

- B1.** Training students to treat dental caries and scaling of teeth
- B2.** Train students how to use fluoride to protect against tooth decay
- B3.** Giving instructions care validity of the teeth and mouth
- B 4** Increasing the ability of student to provide the necessary treatment for children, such as tooth extraction and filling of primary and permanent teeth.
- B 5** Giving instructions for care of oral hygiene and maintaining the health of teeth
- B 6** Training students to deal with different behaviors of children
- B7** Spreading health awareness among parents of children to emphasize the importance and role of the deciduous teeth and the impact on permanent teeth later

Teaching and Learning Methods

- 1- Giving lectures (explanation and clarification).
- 2- Using technological teaching aids as teaching aids (educational films, electronic lectures).
- 3- Urging students to use the library as one of the learning methods.
- 4- Practical training for the student and enabling him to treat several cases of patients attending the Teaching Hospital of the College of Dentistry / Tikrit University, and the treatment is under the direct supervision of the specialized teachers.

Assessment methods

- 1- Written exams
- 2- Oral exams
- 3- Daily quizzes
- 4- Evaluating the practical performance of students during medical treatments within the teaching hospital of the college

C. Affective and value goals

- C1.** Instilling confidence in the student on the ability to manage patients through direct supervision of the student.
- C2-** Introducing the student to the importance of their role in increasing the health awareness of the community by providing health advice related to the periodontal diseases.

Teaching and Learning Methods

- 1- Direct discussion between the students and the teacher
- 2- Asking questions in the course of the lecture
- 3- Providing practical treatment and training under direct supervision in the teaching hospital

Assessment methods

- 1- Written exams
- 2- Oral exams
- 3- A practical evaluation of students' performance in educational clinics

D. General and rehabilitative transferred skills (other skills relevant to employability and personal development)

D1. Skills of reading books and recent research related to the general specialty of dentistry, and the subspecialty of periodontology and how to elicit and extrapolate the information presented.

Teaching and Learning Methods

Teaching students how to write review papers, case presentations and graduation researches.

Assessment Methods

- 1- Presenting seminars.
- 2- Writing graduation projects.

11. Program Structure				12. Awards and Credits
Level/Year	Course or Module Code	Course or Module Title	Credit rating	
3 rd year	CMD344	Community	90 hours	Bachelor Degree Requires (10) credits
4 th year	ORT466	Orthodontics	120 hours	
4 th year	PED449	Pedodontics	120 hours	
5 th year	ORT566	Orthodontics	120 hours	
5 th year	PED557	Pedodontics	120 hours	
5 th year	PVD554	Prevention	120 hours	

13. Personal Development Planning

14. Admission criteria .

15. Key sources of information about the programme

TEMPLATE FOR COURSE SPECIFICATION-FOURTH YEAR

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

Third Year (community)

1. Teaching Institution	College of Dentistry/Tikrit University
2. University Department/Centre	College of Dentistry
3. Course title(code) Lecturers	Community dentistry / CMD344 Ass. Lecturer Hind Thyab Hamid
4. Modes of Attendance offered	Online theory
5. Semester/Year	3 rd year
6. Number of hours tuition (total)	90 theoretical / practical
7. Date of production/revision of this specification	2023 / 2024
8. Aims of the Course	<p>1- Providing the student with a knowledge skill about the basic concepts of community dentistry in general</p> <p>2- It is concerned with introducing the student to dealing with the individual within the family, with knowledge of preventive methods and the ability to diagnose and treat.</p> <p>3- Providing the student with information about achieving the connection with the patient within the family in terms of physical, social and psychological aspects.</p> <p>4- Informing the student of the necessity of coordinating with specialists in other disciplines to serve his patients and the individuals he cares for.</p> <p>5- The student's knowledge of health problems in the community and the ability to set priorities.</p> <p>6- Informing the student about the importance of community medicine for his future profession as a dentist</p>

Teaching and Learning Methods

- 1- The method of giving lectures with explanation and clarification using Power Point.
- 2- Urging students to use the library as one of the learning methods.
- 3- The method of self-learning by supporting the learner's environment.
- 4- Urging students to use the Internet as a supportive means of learning.
- 5- Using the principle of discussion and dialogue to increase students' comprehension.
- 6- Applying education through the practical part.

Assessment methods

theory tests

Practical tests

daily exams

Preparing and delivering the seminar by the student

C. Affective and value goals

C1- Building the student's personality and ability to make decisions

C2.

C3.

C4.

Teaching and Learning Methods

1- lectures

2- dental clinics

Assessment methods

Discussion and exchange of experiences

D. General and rehabilitative transferred skills (other skills relevant to employability and personal development)
 D1- Rehabilitation of the student for dental treatment in the educational clinic
 D2.
 D3.
 D4.

Course structure :

Week	Hours	ILOs	Unit/Module or Topic Title	Practical	Assessment Method
1	2 hour	Understand the concepts, basics and application	Introduction to dental public health	Field visits to schools	theory exam Practical evaluation
2	2 hour	Understand the concepts, basics and application	Introduction to dental public health		theory exam Practical evaluation
3	2 hour	Understand the concepts, basics and application	Epidemiology of dental caries		theory exam Practical evaluation
4	2 hour	Understand the concepts, basics and application	Epidemiology of periodontal disease		theory exam Practical evaluation
5	2 hour	Understand the concepts, basics and application	Epidemiology of malocclusion		theory exam Practical evaluation
6	2 hour	Understand the concepts, basics and application	Epidemiology of oral cancer		theory exam Practical evaluation
7	2 hour	Understand the concepts, basics and application	Dental epidemiology and survey procedures		theory exam Practical evaluation

8	2 hour	Understand the concepts, basics and application	Dental epidemiology and survey procedures		theory exam Practical evaluation
9	2 hour	Understand the concepts, basics and application	Basic epidemiology		theory exam Practical evaluation
10	2 hour	Understand the concepts, basics and application	Pit and fissure sealants		theory exam Practical evaluation
11	2 hour	Understand the concepts, basics and application	Infection control		theory exam Practical evaluation
12	2 hour	Understand the concepts, basics and application	Statistic		theory exam Practical evaluation
13	2 hour	Understand the concepts, basics and application	Epidemiological study		theory exam Practical evaluation
14	2 hour	Understand the concepts, basics and application	Dental health education		theory exam Practical evaluation
15	2 hour	Understand the concepts, basics and application	semester exam		theory exam Practical evaluation
16	2 hour	Understand the concepts, basics and application	Mid exam		theory exam Practical evaluation
17	2 hour	Understand the	Dental auxiliary personnel		theory exam Practical evaluation

		concepts, basics and application			
18	2 hour	Understand the concepts, basics and application	Dental auxiliary personnel		theory exam Practical evaluation
19	2 hour	Understand the concepts, basics and application	Primary teeth (deciduous teeth)		theory exam Practical evaluation
20	2 hour	Understand the concepts, basics and application	Primary teeth care		theory exam Practical evaluation
21	2 hour	Understand the concepts, basics and application	Ethics in dentistry		theory exam Practical evaluation
22	2 hour	Understand the concepts, basics and application	Planning for manpower requirements in dental public health		theory exam Practical evaluation
23	2 hour	Understand the concepts, basics and application	Planning for manpower requirements in dental public health		theory exam Practical evaluation
24	2 hour	Understand the concepts, basics and application	Dental treatment needs, demands and utilization		theory exam Practical evaluation
25	2 hour	Understand the concepts, basics and application	Occupational hazards in dentistry		theory exam Practical evaluation
26	2 hour	Understand the concepts, basics and	Dental public health programs		theory exam Practical evaluation

		application			
27	2 hour	Understand the concepts, basics and application	Infection control		theory exam Practical evaluation
28	2 hour	Understand the concepts, basics and application	Patient seating and examination in dental clinic		theory exam Practical evaluation
29	2 hour	Understand the concepts, basics and application	Forensic dentistry and professional ethics		theory exam Practical evaluation
30	2 hour	Understand the concepts, basics and application	Infection control		
			semester exam		
			Final exam		

(Orthodontics fourth year)

1. Teaching Institution	College of Dentistry/University of Tikrit
2. University Department/Centre	Department of Orthodontics
3. Course title/code	ORT466
4. Modes of Attendance offered	Direct presence
5. Semester/Year	2022/2023
6. Number of hours tuition (total)	30 hours of theory, 90 hours of work
7. Date of production/revision of this specification	2023 / 2024
8. Aims of the Course	Preparing the student at a high level of science regarding the principles of Orthodontics, especially the methods of treatment of patients with malocclusion.

9. Learning Outcomes, Teaching ,Learning and Assessment Method

A- Cognitive goals .

A1- Acquire basic knowledge of the principles of orthodontics.

A2- Acquire basic knowledge about how to treat patients with different types of malocclusion.

A3- Acquire basic knowledge about wire bending for all types of orthodontics springs and appliances

B. The skills goals special to the course.

B1-Training on wire bending of different types of orthodontic springs

B2 - Training on diagnosis of all types of malocclusion

B4 - Introducing students to the principles of orthodontics treatment

Teaching and Learning Methods

B 1. Lectures using software: power point (data show)

B2. Wire bending lab.

B3. Preparing seminars by students under the supervision of professors

Assessment methods

Semester and mid-year exams, final exams, short exams, and practical exams

C. Affective and value goals

C1- Dealing with all kinds of malocclusion

C2- Develop the student's education by preparing and discussing seminars

Teaching and Learning Methods

Theoretical lectures ,Wire bending labs

Assessment methods

Theoretical, practical exams and seminars

D. General and rehabilitative transferred skills (other skills relevant to employability and personal development)
 - Preparing the student practically in what is related to removable orthodontics appliance.

10. Course Structure

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
	1	Tutorial and slides	Introduction Definition of orthodontics Definition of occlusion, normal occlusion, ideal occlusion and malocclusion Six keys of normal occlusion	Power point lectures	Short exams, Semester, and final Exam
	1	Tutorial and slides	Aims of orthodontic treatment 2 Orthodontic definitions (overjet, overbite, crossbite, spacing, crowding, midline deviation, rotation, displacement, proclination, retroclination, protrusion, retrusion, imbrication, overlap, impaction) – including types	Power point lectures	Short exams, Semester, and final Exam
	1	Tutorial and slides	Classification of malocclusion a. Angle's classification including division and subdivisions	Power point lectures	Short exams, Semester, and final Exam
	1	Tutorial and slides	b. molar, canine, incisor classifications c. classification of deciduous and mixed dentitions	Power point lectures	Short exams, Semester, and final Exam
	1	Tutorial and slides	Growth and development Definitions of growth, development and maturity Stages of development (ovum till birth) Theories of bone growth (cartiligenous, sutural,	Power point lectures	Short exams, Semester, and final Exam
	1	Tutorial and slides	Definitions of growth site, growth center, displacement, and drift Growth curve and maximum growth spurt	Power point lectures	Short exams, Semester, and final Exam
	1	Tutorial and slides	Growth and development of hard tissues (cranial base, cranial vault,	Power point lectures	Short exams, Semester, and final Exam

			nasomaxillary complex, mandible) including prenatal and postnatal Growth and development of soft tissues (lip, nose, cheek and tongue) including prenatal and postnatal		
	1	Tutorial and slides	Developmental anomalies Jaw rotation and adaptation	Power point lectures	Short exams, Semester,and final Exam
	1	Tutorial and slides	Deciduous and permanent dentition Stages of tooth development: Formation, calcification and root completion	Power point lectures	Short exams, Semester,and final Exam
	1	Tutorial and slides	Tooth eruption (stages and theories) Sequences and timing of eruption	Power point lectures	Short exams, Semester,and final Exam
	1	Tutorial and slides	Development of occlusion a. new born oral cavity (relationship of gum pads, neonatal jaw relationships, natal and neonatal teeth) b. Deciduous dentition stage - Dental changes till 6 years of Orthodontic (jaw relationship, attrition, primary spaces)	Power point lectures	Short exams, Semester,and final Exam
	1	Tutorial and slides	c. Early mixed dentition stage - eruption of first molars and incisors (occlusal relationships of primary and permanent molars, early mesial shift, ugly duckling stage, secondary spaces) d. Late mixed dentition stage - eruption of canines and premolars (Leeway space and late mesial shift) e. Permanent dentition - eruption second and third molars (mesial migration)	Power point lectures	Short exams, Semester,and final Exam
	1	Tutorial and slides	Etiology of malocclusion: Genetic factors and inherited factors Classification of etiological factors a. General factors i. Skeletal (dental base and cranial base, variation of position and size of the jaws) .	Power point lectures	Short exams, Semester,and final Exam

	1	Tutorial and slides	ii. Soft tissue (muscles of face and mastication, muscles of lip and tongue, relation to skeletal factors, abnormalities of orofacial musculature, interference with soft tissue function) iii. Tooth size and arch length relationship (Crowding and spacing) including types	Power point lectures	Short exams, Semester, and final Exam
	2	Tutorial and slides	b. Local factors: 2 i. Extra-teeth (supernumerary) and missing teeth (hypodontia) ii. Anomalies of tooth size and shape	Power point lectures	Short exams, Semester, and final Exam
		Tutorial and slides		Power point lectures	Short exams, Semester, and final Exam
	1	Tutorial and slides	iii. Early loss of deciduous teeth iv. Retained deciduous teeth, delayed eruption of permanent teeth, impacted teeth, ankylosis	Power point lectures	Short exams, Semester, and final Exam
	1	Tutorial and slides	v. Abnormal eruptive behavior (displacement, transposition) vi. Large frenum (labial and lingual), periodontal diseases	Power point lectures	Short exams, Semester, and final Exam
	1	Tutorial and slides	vii. Oral habits viii. Dental caries, improper dental restoration	Power point lectures	Short exams, Semester, and final Exam
	1	Tutorial and slides	Tooth movement a. Tissue changes associated with tooth movement: i. Histology of periodontium ii. Theories of tooth movement (pressure tension theory, blood flow theory, and piezoelectric theory)	Power point lectures	Short exams, Semester, and final Exam
	1	Tutorial and slides	b. Biomechanics i. Force (application, type, magnitude, duration and direction) ii. Center of	Power point lectures	Short exams, Semester, and final Exam

			resistance and rotation, moment of force and moment of couple.		
	1	Tutorial and slides	iii. Types of tooth movement iv. Rate of tooth movement and factors affecting it	Power point lectures	Short exams, Semester, and final Exam
	1		Orthodontic appliances a. Overview: i. passive orthodontic appliances (habit breaker, retainer and space maintainer) ii. active orthodontic appliances (removable, fixed, orthopedic and myofunctional, and combination)		
	1		b. Removable Orthodontic Appliance: i. Properties of various components (SS wire, acrylic) ii. Components: 1) active components (springs, screws and elastics)		
	1		2) retentive components (clasps) 3) acrylic base plate and bite planes 4) anchorage		
	1		iii. Design of a removable orthodontic appliance iv. Construction of a removable orthodontic appliance		
	1		v. Soldering and welding vi. Post-insertion instructions and guidelines		
	1		c. Fixed orthodontic appliance: Types, components, advantages, limitation, biomechanics, banding vs. bonding		
	1		Use of extra-oral anchorage, temporary anchorage devices (TADs), and lingual fixed appliance		
	1		d. Orthopedic and Myofunctional appliance: Types, components, advantages, limitation, mode of action e. Other active appliances: combination appliances, Invisalign		
	2		f. Retention and retainers		

			2 Retention (definition, reason, time) Retainers (Hawley, clear overlay, positioners, permanent fixation, precision)		
--	--	--	--	--	--

Course structure (practical aspect):

The practical aspect consists of: attending orthodontics lab at a rate of 4 hours per week and 120 hours annually

During which the student will practice wire bending under direct supervision

The annual practical requirements for the fourth stage student include the following:

- Wire bending for all types of springs use in construction of removable orthodontic appliance

11. Infrastructure	
1. Books Required reading:	1.Contemporay orthodontics 2. Textbook of orthodontics 3. Orthodontics; current principles and technique 4.Introduction to orthodontic
2. Main references (sources)	1.Contemporay orthodontics 2. Textbook of orthodontics 3. Orthodontics; current principles and technique 4.Introduction to orthodontic

Clinical requirements

Lab number	Study unit title	Hours
1	(Introduction to orthodontics)	3
2	(Types of orthodontic appliances)	3
3	(Orthodontic pliers)	3
4	(Stainless steel alloy properties)	3
5	(Acrylic baseplate)	3
6	(Principles of wire bending)	3
7	Wire bending training	3
8	Z-Spring	3
9	Recurved Z-Spring	3
10	Review	3
11	Simple Finger Spring	3
12	Modified Finger Spring	3
13	Review	3
14	Buccal Canine Retractor	3
15	Modified Buccal Canine Retractor	3
16	Review	3
17	Quarterly Exam	3
18	Adams' Clasps on Upper Right 1st Molar	3
19	Adams' Clasps on Upper Left 1st Molar	3

20	Adams' Clasps on Upper Right 1st Premolar	3
21	Double Adams' Clasps on Upper Right 2nd premolar & 1st molar	3
22	Review	3
23	Fitted Labial Arch	3
24	Hawley Arch	3
25	Review	3
26	Robert's Retractor	3
27	Soldering and Welding	3
28	Review	3
29	Quarterly Exam	3
30	Final Exam	3
Total		120

(Pedodontics fourth year)

1. Teaching Institution	Tikrit university	
2. University Department/Centre	Collage of Dentistry	
3.	Course title/code	Pedodontics / PED 449
	Lecturers	Lecturer: Ass. Lecturer Sohaib qais alwan Ass. Lecturer Aseel Taha Khaudhair
4. Modes of Attendance offered	Academic Lectures and clinical training on patients	
5. Semester/Year	4th Year	
6. Number of hours tuition (total)	120	
7. Date of production/revision of this specification	2023-2024	

1. Teaching Institution	The Ministry of Higher Education and Scientific Research / University of Tikrit
2. University Department/Centre	Pediatric and preventive dentistry departmen
3. Course title/code	Pediatric Dentistry 4 TH YEAR
4. Modes of Attendance offered	Theoretical lectures
5. Semester/Year	Annual
6. Number of hours tuition (total)	30 hours\ theory-1 hour per week
7. Date of production/revision of this specification	22-9-2022
8. Aims of the Course	
<p>A-Knowledge and Understanding</p> <p>1.give Information to students in a manner enabling understanding and increased knowledge regarding the diagnosis and treatment of various diseases, mouth and teeth of children</p> <p>2 - giving instructions on how to deal with children of different behavior</p> <p>3.Emphasize the importance of spreading awareness among parents about of terms dental health deciduous and permanent both</p>	

A- Cognitive goals .

A1. C. Thinking Skills

A1-the ability to solve problems encountered in his work

A2-the ability to develop scientific and cultural part, through the benefit of his experiences

A3-the ability to lead student groups

A4-evaluate student achievement

B. The skills goals special to the course.

Subject-specific skills

1 –ability of student to provide the necessary treatment for children , such as tooth extraction and filling primary teeth and permanent teeth

2 - giving instructions for care of oral hygiene and maintaining the health of teeth

Assessment methods

Assessment methods

1. Attending lectures

2. The short and quick daily exam quiz

3. Quarterly exam

4- Mid-year exam

5. The final exam

6- How to give questions and a field for discussion to be solved during the lecture.

C. Thinking Skills

C1 - the student's ability to solve problems and have distinct thinking

C2 - The ability to lead student groups

C3 - Evaluation of students' achievements

9. Learning Outcomes, Teaching ,Learning and Assessment Methode

D. General and rehabilitative transferred skills(other skills relevant to employability and personal development)

D1.professional preparation

D2.scientific preperation

D3.cultural preparation

D4. Employing the skills learned in order that student becomes a dentist and able to treat patients

10. Course Structure					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	1	Eruption of teeth , normal eruption process	pedodontics	Lecture presentation by power point program and educational movies	Quizzes, quarterly, mid-year and final exams
2	1	Teething and difficult eruption	pedodontics	Lecture presentation by power point program and educational movies	Quizzes, quarterly, mid-year and final exams
3	1	Eruption haematoma , sequestrum ,ectopic eruption	pedodontics	Lecture presentation by power point program and educational movies	Quizzes, quarterly, mid-year and final exams
4	1	Epstein pearls, Bohn nodules, Dental lamina cysts, Shedding of the primary teeth, Mechanism of resorption and shedding, Factors causes differences in time of eruption	pedodontics	Lecture presentation by power point program and educational movies	Quizzes, quarterly, mid-year and final exams
5	1	Systemic (disease) Factors which cause late eruption Deciduous Dentition Period, Ugly	pedodontics	Lecture presentation by power point program and educational movies	Quizzes, quarterly, mid-year and final exams

		Duckling Stage			
6	1	Morphology of the primary teeth	pedodontics	Lecture presentation by power point program and educational movies	Quizzes, quarterly, mid-year and final exams
7	1	Normal morphology of all primary teeth and their clinical consideration	pedodontics	Lecture presentation by power point program and educational movies	Quizzes, quarterly, mid-year and final exams
8	1	Morphological differences between primary and permanent teeth	pedodontics	Lecture presentation by power point program and educational movies	Quizzes, quarterly, mid-year and final exams
9	1	Functions of primary teeth	pedodontics	Lecture presentation by power point program and educational movies	Quizzes, quarterly, mid-year and final exams
10	1	Dental caries; Definition and Classification	pedodontics	Lecture presentation by power point program and educational movies	Exams

Quizzes, quarterly, mid-year and final exams	Lecture presentation by power point program and educational movies	Pedodontics	Rampant dental caries, Early childhood caries,	1	11
Quizzes, quarterly, mid-year and final exams	Lecture presentation by power point program and educational movies	Pedodontics	Restorative dentistry for children Isolation & maintenance of dry field and application of the rubber Dam	1	12
Quizzes, quarterly, mid-year and final exams	Lecture presentation by power point program and educational movies	Pedodontics	Morphological consideration ,cavity preparation Cavity preparation on primary teeth,	1	13
Quizzes, quarterly, mid-year and final exams	Lecture presentation by power point program and educational movies	Pedodontics	Restorative materials used on pediatric dentistry	1	14
Quizzes, quarterly, mid-year and final exams	Lecture presentation by power point program and educational movies	Pedodontics	Matrices& retainers	1	15
Quizzes, quarterly,	Lecture presentation	Pedodontics	Chrome steel crowns, ART	1	16

mid-year and final exams	by power point program and educational movies				
Quizzes, quarterly, mid-year and final exams	Lecture presentation by power point program and educational movies	Pedodontics	Treatment of deep caries	1	17
Quizzes, quarterly, mid-year and final exams	Lecture presentation by power point program and educational movies	Pedodontics	Indirect pulp treatment	1	18
Quizzes, quarterly, mid-year and final exams	Lecture presentation by power point program and educational movies	Pedodontics	Vital pulp therapy pulpotomy	1	19
Quizzes, quarterly, mid-year and final exams	Lecture presentation by power point program and educational movies	Pedodontics	Non vital pulp therapy technique	1	20
Quizzes, quarterly, mid-year and final exams	Lecture presentation by power point program and educational	Pedodontics	Reaction of pulp to various capping material	1	21

	movies				
Quizzes, quarterly, mid-year and final exams	Lecture presentation by power point program and educational movies	Pedodontics	Local anesthesia and pain control for children	1	22
Quizzes, quarterly, mid-year and final exams	Lecture presentation by power point program and educational movies	Pedodontics	Anesthetizing mandibular and maxillary teeth and soft tissue	1	23
Quizzes, quarterly, mid-year and final exams	Lecture presentation by power point program and educational movies	Pedodontics	complications after a local anesthetic	1	24
Quizzes, quarterly, mid-year and final exams	Lecture presentation by power point program and educational movies	Pedodontics	supplemental injection techniques	1	25
Quizzes, quarterly, mid-year and final exams	Lecture presentation by power point program and educational movies	Pedodontics	Oral surgery for children, indication and contraindications for extraction of primary teeth,	1	26
Quizzes, quarterly, mid-year	Lecture presentation by power	Pedodontics	technique for extraction of primary teeth	1	27

and final exams	point program and educational movies				
Quizzes, quarterly, mid-year and final exams	Lecture presentation by power point program and educational movies	Pedodontics	extraction complications	1	28
Quizzes, quarterly, mid-year and final exams	Lecture presentation by power point program and educational movies	Pedodontics	postoperative extraction complications, radiographic survey of teeth extracted	1	29
Quizzes, quarterly, mid-year and final exams	Lecture presentation by power point program and educational movies	Pedodontics	Infections manifestation and management	1	30

11. Infrastructure

MEDICAL PUBLISHERS/1st ed. 2010

Pediatric Dentistry Infancy through Adolescence/ 5th ed. / Paul S. Casamassimo et al./ Elsevier/ 2013

Pediatric Restorative Dentistry/ Soraya Coelho Leal, Eliana Mitsue Takeshita/ Springer/ Springer International Publishing AG, part of Springer Nature 2019

-Additional requirements such as Community-based facilities (include for example, guest Lectures , internship , field studies)

**-Trying to spread awareness among school students through field visits and lecturing educational
-summer training**

Pedodontics Practice and Management/ Badrinatheswar GV/ Jaypee Brothers Medical Publishers/ 1st ed./ 2010

Restorative Techniques in Paediatric Dentistry/ Duggal et al./ 2nd ed./ Martin Dunitz /2002..

12. The development of the curriculum plan

(Orthodontics fifth year)

1. Teaching Institution	College of Dentistry / University of Tikrit
2. University Department/Centre	Orthodontic
3. Course title/code Lecturer	ORT 566 / Orthodontic Ass. Prof Jamal khidher
4. Modes of Attendance offered	5 th year
5. Semester/Year	year
6. Number of hours tuition (total)	120 hours
7. Date of production/revision of this specification	2023 -2024
8. Aims of the Course	
As mentioned above	

9. Learning Outcomes, Teaching ,Learning and Assessment Methode

A- Cognitive goals .

As mentioned above

B. The skills goals special to the course.

As mentioned above

Teaching and Learning Methods

As mentioned above

Assessment methods

As mentioned above

C. Affective and value goals

As mentioned above

Teaching and Learning Methods

As mentioned above

Assessment methods

As mentioned above

D. General and rehabilitative transferred skills(other skills relevant to employability and personal development)
As mentioned above

10. Course Structure

Week	Hour	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	1	Understand the concepts, basics and practical application	Orthodontic diagnosis and treatment planning: a- Personal data b- Consent form c- Clinical examination i. General body stature	a lecture and a theoretical explanation , questions	Quiz, semester, mid and final exams
2	1		ii. Face examination in 3 dimensions iii. skeletal examination iv. Soft tissue examination	power point	Quiz, semester, mid and final exams
3	1		v. Occlusion	Lecture & explanation	Quiz, semester, mid and final exams
4	1		vi. Dentition vii. Temporomandibular joint	Lecture & explanation	Quiz, semester, mid and final exams
5	1		d- Diagnostic aids i. Cephalometrics	Lecture & explanation	Quiz, semester, mid and final exams
6	1		ii. Orthopantomography iii. Other views	Lecture & explanation	Quiz, semester, mid and final exams
7	1		iv. Study models	power point	Quiz, semester, mid and final exams
8	1		v. Photography vi. 3D imaging	power point	Students participate lecture in explaining
9	1		e- Treatment planning	Lecture & explanation	Students participate lecture in explaining
10	1		f- Treatment of Medically compromised patients	Lecture & explanation	Questions & discussion
11	1		g- Orthodontic indices		
12	1		Space analysis, Bolton's ratio	Lecture & explanation	Questions &
13	1		Teeth extraction in orthodontics	Lecture & explanation	Questions & discussion
14	1		Serial extraction	Lecture & explanation	Questions & discussion
15	1		Vertical and transverse problems: a. Deep bite		
16	1		b. Open bite		
17	1		c. Crossbite and scissors bite		

18	1		Treatment of common local factors: a. supernumerary and hypodontia b. Early loss of deciduous teeth c. Retained teeth, delayed eruption, impaction, ankylosis d. Abnormal eruptive behavior e. Large frenum		
19	1		f. Bad oral habits		
20	1		Treatment of aberrant position of canines		
21			Treatment of general factors: a. Class I treatment (crowding, spacing, biprotrusion)		
			Continue class I treatment (method of space creation)		
			b. Class II div. 1 treatment		
			c. Class II div. 2 treatment		
			d. Class III treatment		
			Treatment of adults a-		
			Periodontal problems		
			b- Orthognathic surgery		
			Continue cleft lip and palate		
			Digital orthodontics		

Clinical requirements

Item	Minimum Requirement	Hours
	Treatment of one patient: 1- Diagnosis :(Mandatory) a- Case sheet filling & presentation b- Upper and lower impression. c-Study models preparation d- Extra & intra oral photographs e- Cephalometric tracing 2-Treatment plan:(Mandatory) 3- Insertion(Optional) 4- Adjustment or Activation(Optional)	
Total	The student should receive at least one orthodontic case to enter the final exam	120 hours

11. Infrastructure	
1. Books Required reading:	: Introduction to orthodontics 2: Contemporary orthodontic 3. Textbook of orthodontics 4. Orthodontics; current principles and technique
2. Main references (sources)	
A- Recommended books and references (scientific journals, reports...).	
B-Electronic references, Internet sites...	
12. The development of the curriculum plan	
The use of modern educational means and illustrations , training courses and seminars	

(Pedodontics fifth Year Program)

1. Teaching Institution	Tikrit university	
2. University Department/Centre	Collage of Dentistry	
3.	Course title/code	Pedodontics / PED557
	Lecturers	Lecturer: Ass.prof Maha Issam Abdulazeez
4. Modes of Attendance offered	Academic Lectures and clinical training on patients	
5. Semester/Year	5th Year	
6. Number of hours tuition (total)	120	
7. Date of production/revision of this specification	2023-2024	

1. Teaching Institution	The Ministry of Higher Education and Scientific Research / University of Tikrit
2. University Department/Centre	Pediatric and preventive dentistry department
3. Course title/code	Pediatric Dentistry 5 th YEAR
4. Modes of Attendance offered	Theoretical lectures and clinical training
5. Semester/Year	Annual
6. Number of hours tuition (total)	30 hours\ theory and 2:30 hour per two weeks\ clinical
7. Date of production/revision of this specification	22-9-2022

8. Aims of the Course	
	9. Aims
<p>A-Knowledge and Understanding</p> <p>1.give Information to students in a manner enabling understanding and increased knowledge regarding the diagnosis and treatment of various diseases, mouth and teeth of children</p> <p>2 - giving instructions on how to deal with children of different behavior</p> <p>3.Emphasize the importance of spreading awareness among parents about of terms dental health deciduous and permanent both</p>	

9. Learning Outcomes, Teaching ,Learning and Assessment Methode

A- Cognitive goals . A1. C. Thinking Skills

A1-the ability to solve problems encountered in his work

A2-the ability to develop scientific and cultural part, through the benefit of his experiences

A3-the ability to lead student groups

A4-evaluate student achievement

B. The skills goals special to the course.

Subject-specific skills

1 –ability of student to provide the necessary treatment for children , such as tooth extraction and filling primary teeth and permanent teeth

2 - giving instructions for care of oral hygiene and maintaining the health of teeth

3- - training students to deal with different behaviors of children

4-spreading health awareness among parents of children to emphasize the importance and role of the deciduous teeth and the impact on permanent teeth later

Assessment methods

1 - written and oral exams

2 - student attendance

3 - Evaluation clinically (Requirements)

4 Use extract teeth in advance for the purpose of increasing the skills of how a dental drill and how do pulpatomy procedure

Assessment methods

1. Attending lectures

2. The short and quick daily exam quiz

3. Quarterly exam

4- Mid-year exam

5. The final exam

6- How to give questions and a field for discussion to be solved during the lecture.

Teaching and Learning Methods

-Lectures presentation by using LCD, data show and educational movies
-Follow-up style of thinking for students and ways of expression and speed of response.

C. Thinking Skills

C1 - the student's ability to solve problems and have distinct thinking

C2 - The ability to lead student groups

C3 - Evaluation of students' achievements

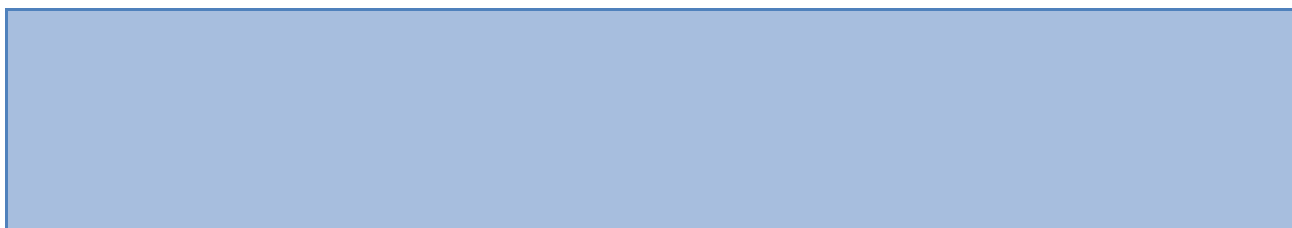
D. General and rehabilitative transferred skills(other skills relevant to employability and personal development)

D1.professional preparation

D2.scientific preparation

D3.cultural preparation

D4. Employing the skills learned in order that student becomes a dentist and able to treat patients



10. Course Structure					
Week	Hours	ILOs	Unit/ Module or Topic Title	Teaching Method	Assessment Method
1	1	Diagnosis and treatment planning	Advantage of treatment planning, diagnostic method,	(clinic) practical	Quizzes ,requirements, final oral examination
2	1	Preliminary medical and dental history,Clinical examination , Radiographic examination	Clinical examination and radiographic examination	(clinic) practical	Quizzes ,requirements, final oral examination
3	1	Art and science of behavior management	Child development ,major area of development variable influence dental behavior, classification of child behavior	(clinic) practical	Quizzes ,requirements, final oral examination
4	1	Non pharmacological	Purpose, classifyin	(clinic) practical	Quizzes ,requirements, final

		management of patient behavior	g children cooperative behavior		oral examination
5	1	pharmacological management of patient behavior	Degree of sedation, indication, pre treatment documentation and assessment	(clinic) practical	Quizzes, requirements, final oral examination
6	1	Sedation in pediatric dentistry	Conscious sedation, route of drug administration, enteral sedation, rectal, IM route, IV route, inhalation, drug used, GA	(clinic) practical	Quizzes, requirements, final oral examination
7	1	traumatic injuries management to teeth and supporting structure			Quizzes, requirements, final oral examination
8	1	Classification to injuries of anterior teeth			Quizzes, requirements, final oral examination
9	1	Traumatic injuries to primary teeth and its effect on permanent teeth			
10	1	Treatment injury to permanent teeth, emergency, temporary restoration			

11	1	Advanced in pediatric dentistry ,diagnostic aid and cavity preparation			
12	1	Advanced in endodontic ,advanced in local ansthesia			
13	1	Advanced in restorative material , surgical procedure, miscellounous			
14	1	Acquired disturbance of oral structure			
15	1	Developmental disturbance of oral structure			
16	1	Gingivitis and periodontal disease in children			
17	1	Gingival lesion of gentic origin,ascorbic acid defficiency			
18	1	Acute candidiasis (thrush) Acute bacterial infection			
19	1	Periodontal disease in children ,early onset ,prepurtal, localized juvenile periodtintits			
20	1	Papillion lever syndrome, gingival recession, extrinsic stain and deposit			
21	1	Management of space maintainer problems Planning for space maintenance			

22	1	Space Maintenance for the First and Second Primary Molar and the Primary Canine Area, premature loss of second primary molar			
23	1	Loss of the Second Primary Molar Before Eruption of the First Permanent Molar, Areas of Multiple Primary Molar Loss			
24	1	Development of dental arch and occlusion; deciduous phase, mixed dentition phase.			
25	1	Arch length analysis; Nance analysis, Moyers mixed dentition analysis, Tanaka and Johnston analysis, Bolton analysis.			
26	1	Dental problems of the disabled child first, dental visit, Radiographic examination, Preventive dentistry, Management of a child with special care needs during dental treatment			
27	1	Treatment immobilization, Mental disability, Down syndrome, Intellectual disability, Learning disability			
28	1	Fragile X syndrome, cerebral palsy, autism,			
29	1	Respiratory diseases, hearing loss, visual impairment, epilepsy			
30	1	Heart disease, hemophilia, hemophilia, sickle cell anemia, viral hepatitis, AIDS			

12. Infrastructure

References

**Text book of pediatric dentistry
- Dentistry for child and Adolescent
RALPHE-McDonald /2016/tenth
edition**

**-Hand book of pediatric dentistry
(Cameron) mosby/third
edition/2008McDONALD AND
AVERY'S DENTISTRY for CHILD
and ADOLESCENT 2016 by Elsevier**

**Pediatric Dentistry Damile 3rd ed. 2006
Text book of pediatric dentistry
Nikhil Marwa 2nd ed. 2009 New Delh**

**Hand book of pediatric dentistry
(Cameron) mosby/third edition/2008
Paediatric Dentistry/ Richard
Welbury/ Fourth edition Oxford
University Press, 2012**

**-Principles and practice of pedodontics
/Arathi Rao Jaypee/second edition2008**

**-Barnett ML: The rationale for the
daily use of an antimicrobial
mouthrinse, J Am Dent Assoc 137(7
Suppl):16S–21S, 2006**

**- Long N: Stress and economic
hardship: the impact on children and
parents, Pediatr Dent 36:109–114, 2014**

**-Sonis A, Ackerman M: E-space
preservation: is there a relationship to
mandibular second molar impaction?
Angle**

Orthod 81(6):1045–1049, 2011..

**-Additional requirements such as
Community-based facilities
(include for example, guest
Lectures , internship , field studies)**

**-Making graduation projects based on
field studies**

**-Trying to spread awareness among
school students through field visits
and lecturing educational**

-summer training

(Prevention fifth Year Program)

1. Teaching Institution	Tikrit university	
2. University Department/Centre	Collage of Dentistry	
3.	Course title/code	Prevention / PVD554
	Lecturers	Lecturer: Ass. Prof Azhar Ammash Hussein
4. Modes of Attendance offered	Academic Lectures and clinical training on patients	
5. Semester/Year	5th Year	
6. Number of hours tuition (total)	120	
7. Date of production/revision of this specification	2023-2024	

1. Teaching Institution	The Ministry of Higher Education and Scientific Research / University of Baghdad
2. University Department/Centre	pediatric and preventive dentistry department
3. Course title/code	Preventive dentistry
4. Program (s) to which it contributes	Preventive dentistry
5. Modes of Attendance offered	lecture and practical (clinic)
6. Semester/Year	Annual
7. Number of hours	30 hours lectures and 37.5 hours practical

<i>tuition (total)</i>	
<i>8. Date of production/revision of this specification</i>	
9. Aims of the Course	
Definition of the importance of Preventive Dentistry and applications for individuals and society, and in particular to the widespread diseases such as dental diseases	

10- Learning Outcomes, Teaching ,Learning and Assessment Method

A- Knowledge and Understanding

- A1.** give information to students in a manner enabling understanding and increased knowledge regarding the diagnosis and treatment of various diseases, mouth and teeth of children
- A2.** Give instructions for the care of teeth and health education for the prevention of dental caries and gingival disease
- A3.** Give guidelines and programs for preventive oral health for seniors people **A4**Give guidelines and programs for preventive oral health for people with special needs
- A5.** giving instructions on how to deal with children of different behavior
- A6.**Emphasize the importance of spreading awareness among parents about of terms dental health for deciduous and permanent tooth
- A7.** Provide preventive instructions and preventive treatments for children.

B. Subject-specific skills

- B1.** Training students to treat dental caries and scaling of teeth
- B2.** Train students how to use fluoride to protect against tooth decay
- B3.** Giving instructions care validity of the teeth and mouth
- B 4** Increasing the ability of student to provide the necessary treatment for children, such as tooth extraction and filling of primary and permanent teeth.
- B 5** Giving instructions for care of oral hygiene and maintaining the health of teeth
- B 6** Training students to deal with different behaviors of children
- B7** Spreading health awareness among parents of children to emphasize the importance and role of the deciduous teeth and the impact on permanent teeth later

Teaching and Learning Methods

Lecturing theoretical using LDC data show
 Showing education movies
 Practical (various diseases that affect the teeth of patients coming to the hospital treatment)
Clinical
 Extensive explanations by professors jurisdiction in the process through the Children's arrivals cure for College Teaching Hospital

Assessment methods

- 1-written and oral examinations.
- 2-evaluate clinical treatment of children and special case(Requirement)

C. Thinking Skills

- C1.Acquire the basic principles prescribed for curriculum
- C2. Student's ability to solve problems and possess distinctive thinking
- C3- Student's ability to solve problems encountered in his work
- C4- Student's ability to develop scientific and cultural part, through the benefit of his experiences
- C5- Student's ability to lead student groups
- C6-evaluate student achievement

Teaching and Learning Methods

- Follow-up style of thinking for students and ways of expression and speed of response.
- Conduct a demonstration of methods of treating patients clinically

Assessment methods

- 1-conduct written examinations
- 2-day assessment of student performance in the clinic during the treatment of patients
- 3- Conducting examinations and the written and oral. A practical exam

D. General and Transferable Skills (other skills relevant to employability and personal development)

- D1. Prepare professional
- D2. Scientific preparation
- D3. Cultural preparation
- D4. Employing the skills learned in order student becomes Dentist is able to treat patients

structure scheduled (lecture)

Evaluation method	Teaching method	Module / course or topic name	Theoretical contents	hour	week
Quizzes half year and final written examination	lecture using power point program	prevention	Prevention of oral diseases (introduction) <ul style="list-style-type: none"> ● What is preventive dentistry? ● prevention is better than a cure ● Is preventive dentistry still needed? ● Levels of prevention ● Caries prevention: how far it had come in one 	1	1

			century!		
Quizzes half year and final written examination	lecture using power point program	prevention	<p>Dental caries development</p> <ul style="list-style-type: none"> • Etiology of dental caries • Inorganic and organic components of tooth • Terminology of dental caries • Dynamics Process of De-/Remineralization • The development of a carious lesion <ul style="list-style-type: none"> • Root caries • Clinical appearance of root caries • Classification of root caries 	1	2
Quizzes mid-term and final written examination	lecture using power point program	prevention	<p>Diagnosis of dental caries</p> <ul style="list-style-type: none"> • Detection systems of caries <ul style="list-style-type: none"> • visual and tactile examinations • Radiographic techniques <ul style="list-style-type: none"> • Electrical current measurement (electronic resistant method) <ul style="list-style-type: none"> • Fiber Optic Transillumination (FOTI and DiFOTI) (Enhanced visual techniques) • Fluorescent techniques • Other techniques like Dyes, Ultrasound techniques, Photo-thermal Radiometry (PTR). 	1	3

Quizzes mid-term and final written examination	lecture using power point program	prevention	<p>Fluoride in Dentistry</p> <ul style="list-style-type: none"> ● Introduction ● Fluoride in Environment ● Fluoride Metabolism (Absorption, Distribution and Excretion of Fluoride in the Body). 	1	4
Quizzes mid-term and final written examination	lecture using power point program	prevention	<p>Fluorides in prevention and controlling dental caries</p> <ul style="list-style-type: none"> ● Mechanism of action ● Fluoride's effect on tooth mineral ● Fluoride effect on plaque and bacterial metabolism 	1	5
Quizzes mid-term and final written examination	lecture using power point program	prevention	<p>Topical fluoride therapy</p> <p>Professionally applied fluoride</p> <ul style="list-style-type: none"> ● Introduction ● Advantages and disadvantages of topical fluoride application ● Fluoride Compounds ● Classification of Professionally applied fluoride. 	1	6

Quizzes mid-term and final written examination	lecture using power point program	prevention	<p>Topical fluoride therapy :Self-applied fluoride</p> <ul style="list-style-type: none"> • Requisites for self-applied fluoride agents • Fluoride dentifrices and Mechanism of Action • Fluoride mouth rinses, Indications and Recommendations. 	1	7
Quizzes mid-term and final written examination	lecture using power point program	prevention	<p>Safety and toxicity of fluoride</p> <ul style="list-style-type: none"> • Fluoride Toxicity • Factors influencing acute toxicity • Management of acute toxicity • Recommendations for parents • Chronic Toxicity(Dental fluorosis and bone fluorosis) 	1	8
Quizzes mid-term and final written examination	lecture using power point program	prevention	<p>Dental sealants</p> <ul style="list-style-type: none"> • definition • History • indication and contraindication • sealant in adult • Ideal sealants materials • Requisites for Sealant Retention • Sealant Placement Guidelines • Fluoride-Releasing Sealants 	1	9

			<ul style="list-style-type: none"> • Glass ionomer sealants • Colored Versus Clear Sealants • Sealants for proximal enamel surfaces • Sealing over caries lesions 		
Quizzes mid-term and final written examination	lecture using power point program	prevention	<p>New approach in restorative dentistry</p> <ul style="list-style-type: none"> • Minimally Invasive Treatment Technique • Minimally Invasive Cavity Preparation <ul style="list-style-type: none"> • Non-machinery Preparation • LASER • Chemo mechanical Caries Removal <ul style="list-style-type: none"> • Preventive Resin Restorations • Remineralization Treatment 	1	10
Quizzes mid-term and final written examination	lecture using power point program	prevention	<p>Microbiology of dental caries</p> <ul style="list-style-type: none"> • Microbial ecology in the oral cavity • Acquisition of the resident oral microflora <ul style="list-style-type: none"> • Site distribution of oral bacteria • Ecological factors affecting the growth and metabolism of oral bacteria <ul style="list-style-type: none"> • Dental biofilms: development, structure, composition and properties • Development of dental 	1	11

			<p>biofilms</p> <ul style="list-style-type: none"> • Pellicle formation • Microbial colonization • Initial microbial colonization <ul style="list-style-type: none"> • Microbial succession • Microbial composition of the climax community (mature biofilm) • Virulence of microorganisms <ul style="list-style-type: none"> • Major dental caries-associated bacteria • Other caries-associated bacteria 		
Quizzes mid-term and final written examination	lecture using power point program	prevention	<p>Saliva and host defense mechanism</p> <ul style="list-style-type: none"> • Function of saliva • Composition of saliva <ul style="list-style-type: none"> • Salivary flow rate • Influence of saliva on dental caries <ul style="list-style-type: none"> • Oral immune system • Non-specific immune factors • Specific immune factors • Immunization of dental caries 	1	12
Quizzes mid-term and final written examination	lecture using power point program	prevention	<p>Caries risk assessment</p> <ul style="list-style-type: none"> • Goals of Caries Risk Assessment • Caries Disease Indicators <ul style="list-style-type: none"> • Caries Risk Factors • Caries Protective Factors • Factors in Low, Moderate 	1	13

			<p>and High Caries</p> <ul style="list-style-type: none"> ● Cariogram 		
Quizzes mid-term and final written examination	lecture using power point program	prevention	<p>infection control</p> <ul style="list-style-type: none"> ● Transmission of infection ● Standard precautions ● Components of infection control ● Treatment room features <ul style="list-style-type: none"> ● Single use disposable instruments ● Biomedical waste management 	1	14
Quizzes mid-term and final written examination	lecture using power point program	prevention	<p>Oral hygiene measures (Mechanical)</p> <ul style="list-style-type: none"> ● Acquired pellicle ● Dental plaque ● Dental calculus ● Mechanical plaque control aids <ul style="list-style-type: none"> ● Toothbrushes ● Tooth brushing methods <ul style="list-style-type: none"> ● Powered toothbrush ● Objectives of toothbrushing ● Interdental Cleaning aids <ul style="list-style-type: none"> ● Dental floss ● Wooden tips ● Interdental brushes <ul style="list-style-type: none"> ● Miswak ● Oral irrigation devices <ul style="list-style-type: none"> ● Gingival massage 	1	15

Quizzes mid-term and final written examination	lecture using power point program	prevention	<p>Oral hygiene measures (Chemical)</p> <ul style="list-style-type: none"> ● Ideal properties of chemical plaque control agents ● Modes of action ● Chlorhexidine <ul style="list-style-type: none"> ● Triclosan ● Essential oil mouthwashes or Listerine <ul style="list-style-type: none"> ● Enzymes ● Sanguinarine extracts <ul style="list-style-type: none"> ● Metal ions ● Antibiotics ● Dentifrices ● Composition of dentifrices 	1	16
Quizzes mid-term and final written examination	lecture using power point program	prevention	<p>Diet and dental caries</p> <ul style="list-style-type: none"> ● Role of carbohydrates in caries development <ul style="list-style-type: none"> ● Evidences ● Factors affecting food cariogenicity ● Physical form of food and clearance time <ul style="list-style-type: none"> ● Types of fermentable carbohydrate ● The basic Stephan curve ● Frequency of intake sugar and dental caries 	1	17
Quizzes mid-term and final written examination	lecture using power point	prevention	<p>Non- sugar sweeteners</p> <ul style="list-style-type: none"> ● The sweetness of sugars ● Non- sugar sweeteners 	1	18

	program		<ul style="list-style-type: none"> ● Bulk sweeteners ● Intense sweeteners ● Protective factors in food ● Fruit and dental caries ● Testing food cariogenicity 		
Quizzes mid-term and final written examination	lecture using power point program	prevention	<p>Dietary counseling in dental practice</p> <ul style="list-style-type: none"> ● Nutritional status assessment <ul style="list-style-type: none"> ▪ Body Mass Index ● Assessment of dietary intake ● Objectives of dietary assessment <ul style="list-style-type: none"> ● 24-hour recall ● Dietary record ● Food frequency questionnaires ● Evaluation of cariogenic potentiall ● Evaluation of nutritive value <ul style="list-style-type: none"> ● Dietary counseling ● Approach to counseling <ul style="list-style-type: none"> ● Motivation 	1	19
Quizzes mid-term and final written examination	lecture using power point program	prevention	<p>Nutrition and dental health</p> <ul style="list-style-type: none"> ● Nutrition dental caries <ul style="list-style-type: none"> ● Systemic effect ▪ Morphology of the teeth ▪ The quality of the hard tissues <ul style="list-style-type: none"> ● Quality of saliva 	1	20

			<ul style="list-style-type: none"> Evidences of the effect of some nutrients on dental caries Nutrition and eruption of teeth 		
Quizzes mid-term and final written examination	lecture using power point program	prevention	<p>Prevention of periodontal disease and oral cancer by nutrition</p> <ul style="list-style-type: none"> Nutrition and periodontal health The mechanisms by which nutrition may affect periodontal disease <ul style="list-style-type: none"> Effect of food texture on periodontal health Nutrition and oral mucosal disease Nutrition and oral cancer <ul style="list-style-type: none"> Primary prevention Secondary prevention 	1	21
Quizzes mid-term and final written examination	lecture using power point program	prevention	<p>Probiotics and dental health</p> <ul style="list-style-type: none"> Caries-related mechanisms of probiotic activity <ul style="list-style-type: none"> Probiotics and counts of <i>mutans streptococci</i> <ul style="list-style-type: none"> Probiotics and caries occurrence Probiotics and periodontal health 	1	22
Quizzes mid-term and final written examination	lecture using power point	prevention	<p>Diagnosis and prevention of dental erosion</p> <ul style="list-style-type: none"> Prevalence 	1	23

	program		<ul style="list-style-type: none"> • Early detection • Etiology • Protection against erosion • Prevention of erosion 		
Quizzes mid-term and final written examination	lecture using power point program	prevention	<p>Prevention of malocclusion</p> <ul style="list-style-type: none"> • Normal development • Etiology of malocclusion • Interceptive measures <ul style="list-style-type: none"> • Tooth anomalies • Risk assessment 	1	24
Quizzes mid-term and final written examination	lecture using power point program	prevention	<p>preventive measure for population with developmental disabilities</p> <ul style="list-style-type: none"> • Disability definition • Classification of disabling conditions • The issues regarding the delivery of care to people with disabilities • Dental management and preventive measures among disabled individuals • The risk factors for dental caries among disabled individuals <ul style="list-style-type: none"> • People with physical (neurological) impairment <ul style="list-style-type: none"> • Visual Deficits • Hearing problems • Mentally retardation • Specialized Equipment for disabled patient management • Dental care for 	1	25

			Institutionalized disabled individual		
Quizzes mid-term and final written examination	lecture using power point program	prevention	<p>preventive treatment strategies for medically compromised populations</p> <ul style="list-style-type: none"> ● Introduction ● Eating disorders: Characteristics and preventive treatment strategies ● Depression: Characteristics and preventive treatment strategies ● Diabetes mellitus: Characteristics and preventive treatment strategies ● Epilepsy: Characteristics and preventive treatment strategies ● Blood disorders: Characteristics and preventive treatment strategies 	1	26
Quizzes mid-term and final written examination	lecture using power point program	prevention	<p>Ozone in the prevention of dental diseases</p> <ul style="list-style-type: none"> ● Definition and physical properties ● Mode of action ● Safety ● Application of ozone in dentistry ● Effects of ozone on oral microorganisms and oral cells ● Ozone for disinfecting dentures ● Ozone instruments designed 	1	27

			<p>for dentistry</p> <ul style="list-style-type: none"> ● Ozone in the management of incipient caries ● Ozone in the management of open caries ● Treating root caries with ozone 		
Quizzes mid-term and final written examination	lecture using power point program	prevention	<p>Geriatric dentistry</p> <ul style="list-style-type: none"> ● population characteristics ● Physiologic Changes ● Functional status ● common oral manifestation ● preventive measures ● long term care 	1	28
Quizzes mid-term and final written examination	lecture using power point program	prevention	<p>Implant care</p> <ul style="list-style-type: none"> ● Dental implant parts ● Dental implant and biofilm ● Implant Maintenance ● Professional care in dental clinic ● Home care 	1	29
Quizzes, half year and final written examination	lecture using power point program	prevention	<p>Protection of the dentition</p> <ul style="list-style-type: none"> ● Impact of dental trauma ● Types of traumatic dental injuries to teeth ● Sports dentistry ● Protective mouth-guards 	1	30

			<ul style="list-style-type: none"> • Evidence of effectiveness • mouth-guards and oral & systemic infections 		
--	--	--	--	--	--

Clinic. structure scheduled					
Valuation method	Teaching method	Module / course or topic name	Practical contents	hours	week
Quizzes requirements, final clinic examination	(clinic) practical	preventive	Diagnosis and treatment planning	2:5	Two weeks per month
Quizzes requirements, final clinic examination	(clinic) practical	preventive	Preliminary medical and dental history, Clinical examination , Radio graphic examination		
Quizzes requirements, final clinic examination	(clinic) practical	preventive	Demonstration and use of Primary prevention program by removal of dental plaque and calculus and application of fluoride and fissure sealants		
Quizzes requirements, final clinic examination	(clinic) practical	preventive	Monitoring of developing dentition and recognition and prevention (through use of space maintainers) or interception of any occurrence of malocclusion		
Quizzes requirements, final clinic examination	(clinic) practical	preventive	Caries removal and restoration of primary and young developing		

			permanent dentition with variety of restorative materials		
Quizzes requirements, final clinic examination	(clinic) practical	preventive	Trauma management in anterior teeth		
Quizzes requirements, final clinic examination	(clinic) practical	preventive	Minimal intervention dentistry by removal of dental decay and choice of suitable restorative material		
Quizzes requirements, final clinic examination	(clinic) practical	preventive	Pulp therapy for primary dentition		
Quizzes requirements, final clinic examination	(clinic) practical	preventive	Management of simple cases of dental anomalies and other developmental defects		
Quizzes requirements, final clinic examination	(clinic) practical	preventive	Maintenance of pulp vitality by use of regenerative materials and Root canal treatment for anterior non vital teeth		
Quizzes requirements, final clinic examination	(clinic) practical	preventive	Extraction for non restorable primary and permanent teeth or over-retained primary dentition and permanent teeth for space creation for orthodontic treatment		
Quizzes requirements,	(clinic) practical	preventive	Management of		

final clinic examination			molar incisor hypomineralization MIH		
Quizzes requirements, final clinic examination	(clinic) practical	preventive	Behavior management for young patients		
Quizzes requirements, final clinic examination	(clinic) practical	preventive	Infection control re-assurance and guidance of students		
Quizzes requirements, final clinic examination	(clinic) practical	preventive	Tooth colored restoration technique		
Quizzes requirements, final clinic examination	(clinic) practical	preventive	Radiographic prescription and interpretation of results		

12. Infrastructure

Required reading:

- CORE TEXTS
- COURSE MATERIALS
- OTHER

- The prevention of oral disease by Murry JJ NunnJH and Steele JG fourth edition, 2003 ●
- Primary Preventive Dentistry by Harris NO Garcia-GodoyF-NatheCN 8th Ed. (20014) ●
- Essential of dental caries the disease and its management by Kidd E third edition (2005) ●
- Textbook of Cariology by Fejerscov and Thylstryp 1996 ●
- Principles and practice of public health dentistry by Krishna M and DasarPL.2010 ●
- Text book of preventive and social medicine. Gupta M. and Mahajan BK. 3rd edition, 2003 ●
- Dentistry, dental practices and the community Striffler D, Young W., and Burt B., 5th edition 1999. ●
- Text book Public health dentistry , CM Marya, JAYPEE. 2011. ●
- Diagnosis and risk prediction of dental caries . per Axelsson , DDS, PHD, 2000 ●
- Laser in Dentistry guide for clinical practice by Patricia M. Freitas and Alyne Simoes 2015 ●
- Dental caries, the disease and clinical management Ole fejerslkov and Edwina kidd., 2nd edition , black well, 2008. ●
- Comprehensive preventive dentistry (2012) Edited by Hardy Limeback ●
- Dental Caries Principles and Management 2016 by Zhou ●

Xuedong Springer-Verlag Berlin Heidelberg

Nutrition in clinical dentistry 3rd ed by Abrahame Nizel and Athenas S Papas 1989 ●

Human and nutrition by Helen A Guthrie and Mary Frances Picciano 1995 ●

Nutrition and immunology principal and practice by Eric Gershwin, Bruce German and Carl L Keen 2000 ●

Nutrition diet and oral health in Rugg – Gunn A.J. and Nunn J.H (1999): 1st ed Oxford University Press ●

Journal: ●

British Dental Journal ●

Australian Dental Journal ●

International Dental Journal ●

Journal of the Canadian Dental Association ●

International Journal of Dental Hygiene ●

Community Dental Health ●

