



Course Specifications

Course Title:	Clinical Pedodontics-I
Course Code:	PDS 423
Program:	Bachelor of Dental Surgery
Department:	Preventive Dental Sciences [PDS 423]
College:	College of Dentistry
Institution:	Majmaah University

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A. Course Identification

1. Credit hours:
2. Course type
a. University <input type="checkbox"/> College <input type="checkbox"/> Department <input checked="" type="checkbox"/> Others <input type="checkbox"/>
b. Required <input checked="" type="checkbox"/> Elective <input type="checkbox"/>
3. Level/year at which this course is offered:
4. Pre-requisites for this course (if any): PDS322
5. Co-requisites for this course (if any):

6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	30	25%
2	Blended	-	-
3	E-learning	--	-
4	Correspondence	-	-
5	Other –(Practical- Clinical sessions)	90	75%

7. Actual Learning Hours (based on academic semester)

No	Activity	Learning Hours
Contact Hours		
1	Lecture	30
2	Laboratory/Studio	
3	Tutorial	
4	Others (specify) Practical- Clinical sessions	90
	Total	120
Other Learning Hours*		
1	Study	40
2	Assignments	20
3	Library	20
4	Projects/Research Essays/Theses	20
5	Others (specify)	-
	Total	100

* The length of time that a learner takes to complete learning activities that lead to achievement of course learning outcomes, such as study time, homework assignments, projects, preparing presentations, library times

B. Course Objectives and Learning Outcomes

1. Course Description

This two-credit hour course consists of two parts; theory and clinical work. The theoretical part (1 credit hour) is designed to provide Dental students with basic knowledge related to Pediatric Dentistry. This course discusses the different aspects of diagnosis and management of dental problems in pre-school age children. Principles of behavior management and anxiety control to deal with children are a major emphasis of this course.

The practical part (1 credit hour, 3 contact hours) provides students with the skills to apply the comprehensive dental care to manage all dental needs of the assigned child patient. Children with age range of 1 to 14 years are usually seen and treated by the students in this course.

2. Course Main Objective

The main purpose of the course is to inform and provide the students with sufficient knowledge in children dentistry and it includes study of examination, diagnosis, management and treatment planning for various dental problems in children from infancy through adolescence.

Following are the plans that are implemented for developing and improving the course:

- Annual review of course by departmental course planning committee
- Updating the course with latest developments in the field using web-based materials.
- Annual review and updating practical sessions with new updates, slides and new preparations.
- Comparison of course topics with equivalent local and international courses.
- By clinical examination and group discussions.
- By increasing the use of practical skills and management of behavior modification in child patients.

3. Course Learning Outcomes

CLOs		Aligned PLOs
1	Knowledge:	
K3.26	Recall the medical, dental and behavioral management concepts needed for the practice of dentistry in children.	K3
2	Skills:	
S4.5	S4.1 Implement preventive and clinical management strategies of pediatric patients with special emphasis on restorative and surgical procedures.	S4
S7.10	Demonstrate good skills for clinical examination, diagnosis and treatment planning of different clinical and surgical dental procedures in children.	S7
3	Competence:	
C3.10	Demonstrate effective communication skills with the children and their families with proper documentation. C3.	C3

C. Course Content

No	List of Topics	Contact Hours
1	Unit 1 : Introduction, Examination of the Mouth and Other Relevant Structures <ul style="list-style-type: none"> • Initial parental contact with the dental office Definition • The diagnostic method • Preliminary medical and dental history • Clinical examination 	1
2	Unit 2 : Behavior management : Part (1) <ul style="list-style-type: none"> • Definition • Classification of child behavior • Behavior rating scales • Fear • Factors affecting child behavior patterns • Appearance of the dental office 	1
3	Unit 2 : Behavior management : Part (2) <ul style="list-style-type: none"> • Management of different child behavior patterns • Techniques and tools of child behavior managements • Physical Restraints 	1
4	Unit 3 : Prevention : Fluorides in pediatric dentistry. <ul style="list-style-type: none"> • Fluoride administration • Technique of application • Self-applied topical fluoride applications • Recommendations for use of topical fluorides 	1
5	Unit 4 : Radiographic techniques in pediatric dentistry <ul style="list-style-type: none"> • Selection criteria and radiographic examinations • commonly used radiograph, radiographic techniques and examinations • digital receptors for pediatric patients, evaluation of radiographs 	1
6	Unit 5 : Oral habits-1 <ul style="list-style-type: none"> • Definition, • Undesirable oral habits in children, • Digital sucking • Tongue thrusting • . 	1
7	Unit 5 : Oral habits -2 <ul style="list-style-type: none"> • Bruxism, • Mouth breathing, • Lip biting and sucking habit, • Cheek biting, • Self-injurious habit, <p style="text-align: right;">Nail biting</p>	1
8	Unit 6 : Mechanical and Chemotherapeutic home oral hygiene in	1

	<p>pediatric dentistry-1</p> <ul style="list-style-type: none"> • Manual toothbrush, • Powered mechanical plaque removal dentifrices, • Floss, Interproximal Brushes, • End-tufted Brush, • Disclosing agents, • Tongue scrapers. • Oral irrigators 	
9	<p>Unit 6 : Mechanical and Chemotherapeutic home oral hygiene in pediatric dentistry-2</p> <ul style="list-style-type: none"> • Antiseptic agents, • Essential Oils, • Quaternary Ammonium Compounds, • Triclosan, • Stannous Fluoride, sugar substitutes, • Age-specific home oral hygiene instructions, • In-office oral hygiene programs 	1
10	<p>Unit 7: Space Maintenance in the Primary Dentition: Part (1)</p> <ul style="list-style-type: none"> • Space loss problems, • Definition, • Band and loop space maintainers, • Crown and loop space maintainer, • Lingual arch space maintainer, • Nance palatal arch appliance 	1
11	<p>Unit 7: Space Maintenance in the Primary Dentition: Part (2)</p> <ul style="list-style-type: none"> • Transpalatal arch appliance • Distal shoe space maintainer • Bonded space maintainer • Glass fiber reinforced composite resin space maintainer • Removable Space Maintainers • Fixed appliances for anterior space maintenance 	1
12	<p>Unit 8: Congenital Genetic Disorders and Syndromes</p> <ul style="list-style-type: none"> • Children in dental clinic fit one of three categories, • Ocular anomalies, • Auricular anomalies, • Anomalies of the mouth and oral region, • Dental anomalies, • Dentist responsibilities, • Some common syndromes in children 	1
13	<p>Unit 9: Minor Oral Surgery in Children & common pathological conditions</p> <ul style="list-style-type: none"> • Minor oral surgery in children • Common pathological condition in children 	1

14	Unit 10: Pharmacological Management of children (1) <ul style="list-style-type: none"> • Definition, • Oral sedation, • Intra-muscular sedation, • Submucosal sedation, • Intra-venous sedation 	1
15	Unit 10: Management of children with N₂O Inhalation and G.A (2) <ul style="list-style-type: none"> • Definition, • Indication, • Contraindication, • Advantages, • Disadvantages, • Objectives, • Techniques, • Differences between conscious sedation and general anesthesia 	1
Second Semester		
16	Unit 1 : Dental trauma : Part (1) <ul style="list-style-type: none"> • Terminologies and definitions • Predisposing and risk factors • Etiology • Epidemiology (Primary) • Epidemiology (Permanent) • Ellis and Davey Classification • WHO Classification 	1
17	Unit 1 : Dental trauma : Part (2) <ul style="list-style-type: none"> • Definition • Reaction of tooth to trauma • Effects on development of permanent teeth • Examination and Diagnosis 	1
18	Unit 1 : Dental trauma : Part (3) <ul style="list-style-type: none"> • Ellis classification • Apexogenesis • Apexification 	1
19	Unit 1 : Dental trauma : Part (4) <ul style="list-style-type: none"> • Crown- Root Fracture • Root Fracture • Luxation injuries • Avulsion • Fracture of crown 	1
20	Unit 1 : Dental trauma : Part (5) <ul style="list-style-type: none"> • Management of dental trauma in primary teeth 	1
21	Unit 2 : Treatment of Deep Caries, Vital Pulp Exposure, and Pulpless Teeth : Part (1) <ul style="list-style-type: none"> • Diagnostic aids in the selection of teeth for Vital pulp therapy 	1

	<ul style="list-style-type: none"> • Evaluation of treatment prognosis before Pulp therapy • Treatment of the deep carious lesion • Vital pulp exposure 	
22	Unit 2 : Treatment of Deep Caries, Vital Pulp Exposure, and Pulpless Teeth -2 <ul style="list-style-type: none"> • Vital pulp therapy techniques, • Nonvital pulp therapy technique, • Various pulp capping materials, • Failures after vital pulp therapy 	1
23	Unit 3 : Crowns in Pediatric Dentistry <ul style="list-style-type: none"> • Introduction, • Definition, • Classification, • Preparation of the tooth, • Selection of crown size, • Contouring of the crown 	1
24	Unit 4 : Dental Management of Medically Compromised Patient -1 <ul style="list-style-type: none"> • Hemophilia, • Viral hepatitis, • Sickle cell anemia 	1
25	Unit 4: Dental Management of Medically Compromised Patient -2 <ul style="list-style-type: none"> ▪ Acquired immunodeficiency syndrome, ▪ Heart Disease, ▪ Thalassaemia, ▪ Platelet Disorders 	1
26	Unit 5: Dental Management of Disabled Children <ul style="list-style-type: none"> • Down syndrome (Trisomy 21 syndrome), • Learning disabilities • Fragile-x, • Foetal alcohol syndrome, • Autism, • Cerebral palsy, • Spina bifida and latex allergy, • Respiratory diseases, • Hearing loss, • Visual impairment 	1
27	Unit 6: Gingivitis and Periodontal Disease in Children -1 <ul style="list-style-type: none"> • Normal gingiva and periodontium, • Simple gingivitis, • Acute gingival disease, • Chronic nonspecific gingivitis 	1
28	Unit 6: Gingivitis and Periodontal Disease in Children -2 <ul style="list-style-type: none"> • Early-Onset Periodontitis, • Prepubertal Periodontitis, • Localized, Early-Onset Periodontitis, • Generalized Early-Onset • Periodontitis 	1

29	Unit 7: Medical Emergencies in Children -1 <ul style="list-style-type: none"> • Introduction, • Syncope, • Allergy, • Asthma, • Hyperventilation, • Airway obstruction, • Seizures 	1
30	Unit 7: Medical Emergencies in Children -2 <ul style="list-style-type: none"> • LA overdose reactions • Thyroid gland dysfunction, • Adrenal crisis, • Insulin shock & Diabetic ketoacidosis 	1
Total		30

D. Teaching and Assessment

1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	Knowledge		
K3.26	Recall the medical, dental and behavioral management concepts needed for the practice of dentistry in children.	Lectures Clinical sessions	Written exams Clinical exams
2.0	Skills		
S4.5	Implement preventive and clinical management strategies of pediatric patients with special emphasis on restorative and surgical procedures.	Lecture Clinical sessions	Written exams Clinical exams Case based scenario Assignments Weekly assessment
S7.10	Demonstrate good skills for clinical examination, diagnosis and treatment planning of different clinical and surgical dental procedures in children		Approved procedures documented in log book
3.0	Competence		
C3.10	Demonstrate effective communication skills with the children and their families with proper documentation.	Clinical sessions	Weekly assessment Clinical Exams

2. Assessment Tasks for Students

	Assessment task		Week Due	Proportion of Total Assessment		
1	In Course Assessments	60	Mid-year exam- written	15 th week	20%	
2			Activities	Professional ism	Throughout semester	5%
3				Quiz	Throughout semester	5%
4			Weekly assessment- Practical		25 th week	30%
5	Final exam	40	Final theory	End of semester	20%	
6			Final practical	End of semester	20%	
Total marks		100		Total▶	100%	

*Assessment task (i.e., written test, oral test, oral presentation, group project, essay, etc.)

E. Student Academic Counseling and Support

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice:

The students would avail consultancy during the displayed office hours (2-4 hours per week)

F. Learning Resources and Facilities

1. Learning Resources

Required Textbooks	<ul style="list-style-type: none"> Dentistry for the Child and Adolescent Ninth Edition - Jeffrey A. Dean, David R. Avery and Ralph E. McDonald, Mosby, ISBN: 978-0323057240 Handbook of Pediatric Dentistry 4th Edition Angus C. Cameron and Richard P. Widmer. Elsevier Ltd, ISBN: 978-0-7234-3695-9
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Essential References Materials	<ul style="list-style-type: none"> • Pediatric dentistry Journals (International Journal of Paediatric Dentistry; Pediatric Dentistry; European Archives of Paediatric Dentistry; Journal of Indian Society of Pedodontics and Preventive Dentistry and etc.,)
Electronic Materials	<ul style="list-style-type: none"> • http://www.sdl.edu.sa • http://www.pubmed.com • Electronic material on CD, Web sites.
Other Learning Materials	<ul style="list-style-type: none"> • Class room lectures • Clinical demonstrations

2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	<ul style="list-style-type: none"> • Lecture rooms should be large enough to accommodate 30 students. • Well-equipped per clinical cube suitable for 2-3 students
Technology Resources (AV, data show, Smart Board, software, etc.)	<ul style="list-style-type: none"> • One computer, projector, active-board, video set connected to projector. • Dental clinic with instruments required to treat Pediatric patient • Radiographs: Intra -oral periapical films, Panoramic radiograph, Lateral cephalogram, Anterior Occlusal radiographs and etc
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	<ul style="list-style-type: none"> • The following items are needed for the lab practices: thyphodont model, High speed hand piece, and burs • Dental clinic including dental unit and supplied materials and instruments.

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Effectiveness of teaching and assessment	Students	<ul style="list-style-type: none"> • Course Evaluation Survey • Quality of Exam Survey
	Faculty	<ul style="list-style-type: none"> • CLO Mapping with teaching & assessment. • Course Blueprinting • Grade Analysis • Psychometric Analysis
	Collogues	<ul style="list-style-type: none"> • Grade Verification
Extent of achievement of course learning outcomes	Faculty member / Quality assurance committee	<ul style="list-style-type: none"> • Direct assessment outcome analysis • Course report preparation

Quality of learning resources, etc	Faculty/Students	<ul style="list-style-type: none"> • Academic advising survey • Student experience survey
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Evaluation areas (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)

Evaluators (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

Assessment Methods (Direct, Indirect)

H. Specification Approval Data

Council / Committee	Department council
Reference No.	*****
Date	29.08.2019