Program Specification
and
Year specification

2024/2025

Mansoura Manchester Dental Program

Faculty of Dentistry – Mansoura University

Mansoura Manchester Dental Program

Program Specification

2024/2025

Mansoura Manchester Dental Program
Program Specification
2024/2025

1. GENERAL INFORMATION

Code	Award	Program Title	Duration	Mode of study
	BDS	The Mansoura Manchester Dental Program – Bachelor in Dental Surgery	5 years	Full time

School	School of Dentistry
Faculty	Faculty of Dentistry Mansoura University
Awarding Institution	The University of Mansoura
Programme Accreditation	General Dental Council
Relevant QAA benchmark(s)	Dentistry

2. AIMS OF THE PROGRAMME(S)

The program aim to produce a graduate who:

01.	Has the knowledge to have a critical understanding of the complex issues involved in the scientific basis of dentistry;
02.	Can apply intellectual skills, knowledge, and behaviours in the field of dentistry;
03.	Can be reflective, committed to lifelong learning.

And to complete the BDS programme the aims are to graduate a professional and ethical dentist who can demonstrate the ability to:

04.	Take a patient-centred approach to clinical care within the dental team;
05.	Apply clinical skills, knowledge, and behaviours in independent dental practice.

3. INTENDED LEARNING OUTCOMES OF THE PROGRAMME(S)

	A. Knowledge & Understanding
	The student will be able to demonstrate:
A1	Knowledge of, and understanding of the relationship between, the normal structure and development of the human body, with particular reference to oral and peri-oral region.
A2	Understanding of the functions of the main systems of the human body, with particular reference to oral and peri-oral region.
A3	Understanding of the alterations to normal structure and function in disease, with particular reference to oral and peri-oral region.
A4	Understanding of the role of micro-organisms in man in health and disease, with particular reference to oral and dental disease.
A5	The ability to relate diet to health and disease, with particular reference to oral and dental disease.
A6	Understanding and the ability to discuss behavioural and social factors contributing to health and disease, with particular reference to oral and dental disease.
A7	Understanding of the impact of pharmaceutical agents on the functioning of the mouth.
And to complete the BDS Programme:	
A8	Understanding of the biological and technical demands of restoration of the diseased dentition.

Learning & Teaching Processes (to allow students to achieve intended learning outcomes)	**Assessment** (of intended learning outcomes)
• Problem-based learning (A1–A8) • Course work – SSM (A1-A7), CAT (A8), Case Presentations (A5–A8) • Lectures / Symposia (A1-A8)	• Multiple choice (MCQ) paper (A1-A8) • Short answer (SAQ) paper (A1–A8) • Assessment of submitted work – SSM (A1-A7), CAT (A8) • Viva – Case Presentation (A5-A8)

	B. Intellectual Skills
	The student will be able to demonstrate the ability to:
B1	Formulate relevant questions and gather the necessary information when faced with problems related to the practice of dentistry.
B2	Analyse and evaluate relevant information when faced with problems related to the practice of dentistry.
B3	Demonstrate an understanding of different opportunities for learning.
B4	Critically appraise alternative courses of action, including appropriate referral, from the analysis and evaluation of relevant information when faced with problems related to the practice of dentistry.
B5	Understand the concepts underlying evidence-based dentistry and evaluate published articles, understand the strength of evidence represented, and draw appropriate conclusion in the light of the body of the literature.
B6	Demonstrate a critical understanding of the complex issues involved in applying basic sciences to clinical dental practice
And to complete the BDS Programme:	
B7	Understand the limitations of their current knowledge and clinical competency.
B8	Demonstrate a knowledge of the components of clinical governance, including being able to explain and give examples of the clinical audit cycle in dental practice.

Learning & Teaching Processes	Assessment
• Problem-based learning (B1-B8) • Course work – SSM (B1-B3, B6) CAT (B1-B5), Case Presentations (B6), Governance project (B8) • Lectures / Symposia (B1-B8)	• MCQ (B1, B2, B4-B7) • SAQ (B1-B8) • Assessment of submitted work – SSM (B1, B2, B6), CAT (B1-B5), Governance Project (B8) • Viva - Case presentation (B6)

C. Practical Skills	
	The student will be able to demonstrate the ability to:
C1	Elicit, interpret and understand a history and undertake an extra- and intra-oral examination of both adult and child patients.
C2	Synthesise clinical findings to identify differential diagnoses and identify and interpret appropriate investigations.
C3	Have a critical understanding of the risks and benefits of the range of imaging techniques used in dentistry.
C4	Demonstrate the ability to effectively deliver health education to individuals and groups.
And to complete the BDS Program:	
C5	Handle dental instruments and materials safely and in accordance with current cross infection guidelines and work effectively and safely as part of the dental team.
C6	Competently perform the techniques required for administration of local anaesthesia, including regional, topical and infiltration techniques, to enable the effective delivery of dental treatment.
C7	Competently prepare teeth and place indirect and direct restorations in children and adults using contemporary dental materials.
C8	Competently use forceps, elevators and surgical procedures to remove permanent and primary teeth and roots, and perform soft tissues procedures.
C9	Understand and monitor, and when relevant undertake procedures to manage, developing and manifest problems related to the occlusion.
C10	Demonstrate the ability to prevent and manage medical emergencies that may occur in dental practice including the ability to perform cardiopulmonary resuscitation procedures.
C11	Apply anxiety management and sedation techniques when appropriate to enable the effective delivery of dental care to both children and adults.

Learning & Teaching Processes	Assessment
• Problem-based learning (C1-C11) • Course work – Case Presentations (C1-C4, C9) • Lectures / Symposia (C1–C11) • Technical / laboratory skills classes (C1, C5-C11) • Clinical experience (C1-C11)	• MCQ (C3-C5, C10) • SAQ (C3–C5, C9, C10) • OSCE (C1, C2, C5–C11) • Competency assessments (C1, C2, C5–C11) • Viva - Case presentation (C1-C4, C9, C11)

D. Transferable Skills and Personal Qualities

The student will be able to:

D1	Demonstrate the ability to put into practise the skills involved in active listening.
D2	Describe dental concepts in a way appropriate for both patients and colleagues to understand.
D3	Advance an argument, including use of the written and spoken word, in a professional and effective manner.
D4	Prepare and deliver a presentation on a chosen topic, showing critical analysis and synthesis of the material presented.
D5	Demonstrate the ability to use the Internet in a knowledgeable and critical way to gain information on contemporary dental issues, including the ability to carry out on-line searches of databases to resource assessment tasks.
D6	Communicate effectively and appropriately using e-mail, with knowledge of the limitations and restrictions on this form of communication.
D7	Demonstrate an understanding of how teams work and form and the decision making process and the effects of stress on the team and its individual members.
And to complete the BDS Program:	
D8	Empathise with adult and child patients, showing understanding of their concerns and desires both in communicating and in delivering treatment procedures.
D9	Demonstrate the ability to discharge the legal and professional responsibilities of a dentist with respect to patient management with regard to current guidance from the General Dental Council.
D10	Understand and display the characteristics of a leader in a dental team.
D11	Develop a PDP to demonstrate an understanding of one's own needs and how best to meet these as a practicing dentist.
D12	Demonstrate creativity and imagination in their approach to dentistry.

Learning & Teaching Processes	Assessment
• Problem-based learning (D1-D12) • Course work – SSM (D3, D5) CAT (D3–D5) Case Presentations (D2, D3, D5, D9) • Lectures / Symposia (D4, D5-D7, D9) • Clinical experience (D1, D7–D12) • PDP (D11)	• MCQ (D6, D9) • SAQ (D6, D7, D10) • OSCE (D1, D2, D5, D7-D9) • Assessment of submitted work – SSM (D3, D5) CAT (D3, D4, D5, D12) • Viva - Case presentation (D1, D2, D5, D9, D10, D12) • Reflective writing (D11, D12)

4. THE STRUCTURE OF THE PROGRAMME(S)

Program structure

Year 1 – Basic building blocks	**LEVEL**	**CREDITS**
Compulsory		
Unit 1 - Orofacial Biology 1	**C**	**60 (600 hours)**
Unit 2 - Healthy Living 1 *(a healthy body)*	**C**	**20 (200 hours)**
Unit 3 - Team Working, Professionalism and Patient Management 1	**C**	**20 (200 hours)**
Unit 4 - Patient Assessment 1	**C**	**10 (100 hours)**
Unit 5 - Disease Management 1	**C**	**10 (100 hours)**

Year 2 - Building your knowledge skills and attitudes

Compulsory		
Unit 1 - Orofacial Biology 2	**I**	**40 (400 hours)**
Unit 2 - Healthy Living 2 *(a healthy mouth)*	**C**	**20 (200 hours)**
Unit 3 - Team Working, Professionalism and Patient Management 2	**I**	**20 (200 hours)**
Unit 4 - Patient Assessment 2	**I**	**20 (200 hours)**
Unit 5 - Disease Management 2	**I**	**20 (200 hours)**

Year 3 - Integrating knowledge skills and attitudes

Compulsory		
Unit 1 - Orofacial Biology 3	**H**	**20 (200 hours)**
Unit 2 - Healthy Living 3 *(a healthy mind)*	**H**	**20 (200 hours)**
Unit 3 - Team Working, Professionalism and Patient Management 3	**H**	**20 (200 hours)**
Unit 4 - Patient Assessment 3	**I**	**30 + 20** [special credit] **(500 hours)**
Unit 5 - Disease Management 3	**I**	**30 + 20** [special credit] **(500 hours)**

Year 4 - Achieving Clinical Competence

Compulsory		
Unit 1 - Orofacial Biology 4	**H**	**10 (100 hours)**
Unit 2 - Team Working, Professionalism and Patient Management 4	**H**	**20 (200 hours)**
Unit 3 - Patient Assessment 4	**I**	**30 + 20** [special credit] **(500 hours)**
Unit 4 - Disease Management 4	**H**	**60 + 20** [special credit] **(800 hours)**

Year 5 - Towards Professional Competence

Compulsory		
Unit 1 - Team Working, Professionalism and Patient Management 5	**H**	**20 (200 hours)**
Unit 2 - Preparation for Independent Practice	**H**	**60 + 20** [special credit] **(800 hours)**
Unit 3 - The Complex Patient	**H**	**40 (400 hours)**

Key: Level C = Certificate
Level I = Intermediate
Level H = Honours

Learning at this level will reflect the ability to:

- Level C – develop a rigorous approach to the acquisition of a broad knowledge base; employ a range of specialised skills; evaluate information using it to plan and develop investigative strategies and to determine solutions to a variety of unpredictable problems; and operate in a range of varied and specific contexts, taking responsibility for the nature and quality of outputs.
- Level I – generate ideas through the analysis of concepts at an abstract level, with a command of specialised skills and the formulation of responses to well defined and abstract problems; analyse and evaluate information; exercise significant judgement across a broad range of functions; and accept responsibility for determining and achieving personal and/or group outcomes.
- Level H – critically review, consolidate and extend a systematic and coherent body of knowledge, utilising specialised skills across an area of study; critically evaluate new concepts and evidence from a range of sources; transfer and apply diagnostic and creative skills and exercise significant judgement in a range of situations; and accept accountability for determining and achieving personal and/or group outcomes.

5. CURRICULUM PROGRESSION: INTENDED LEARNING OUTCOMES FOR EACH YEAR

Year	**Intended learning outcomes** (All the course units are compulsory)
Year 1 to 5	**See Appendix 2 of the intended learning outcomes for each of Years 1-5, where year by year learning outcomes are shown to demonstrate progression.**

The attached table (Appendix 2) lists the intended learning outcomes (ILO) for each of the five years of the programme and outlines:

- Which of the 5 Themes the ILO contributes to;
- Which Unit(s) the ILO is delivered in;
- Method of delivery for each ILO;
- Method of assessment for each ILO.

PROGRAMME STRUCTURE

Year	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5
Year 1: Basic Building Blocks	Orofacial Biology 1 (Level C, 60 credits)	Healthy Living 1 *(a healthy body)* (Level C, 20 credits)	Team Working, Professionalism and Patient Management 1 (Level C, 20 credits)	Patient Assessment 1 (Level C, 10 credits)	Disease Management 1 (Level C, 10 credits)
Year 2: Building your knowledge skills and attitudes	Orofacial Biology 2 (Level I, 40 credits)	Healthy Living 2 *(a healthy mouth)* (Level C, 20 credits)	Team Working, Professionalism and Patient Management 2 (Level I, 20 credits)	Patient Assessment 2 (Level I, 20 credits)	Disease Management 2 (Level I, 20 credits)
Year 3: Integrating knowledge skills and attitudes	Orofacial Biology 3 (Level H, 20 credits)	Healthy Living 3 *(a healthy mind)* (Level H, 20 credits)	Team Working, Professionalism and Patient Management 3 (Level H, 20 credits)	Patient Assessment 3 (Level I, 30 + 20 special credits)	Disease Management 3 (Level I, 30 + 20 special credits)
Year 4: Achieving Clinical Competence	Orofacial Biology 4 (Level H, 10 credits)	Team Working, Professionalism and Patient Management 4 (Level H, 20 credits)	Patient Assessment 4 (Level I, 30 + 20 special credits)	Disease Management 4 (Level H, 60 + 20 special credits)	
Year 5: Towards Professional Competence	Team Working, Professionalism and Patient Management 5 (Level H, 20 credits)	Preparation for Independent Practice (Level H, 60 + 20 special credits)	The Complex Patient (Level H, 40 credits)		

THE FIVE THEMES

Theme 1: Human Health and Disease.

Theme 2: The Mouth in Heath and Disease.

Theme 3: Clinical Competence, including patient management.

Theme 4: Communication Skills, Teamwork, ICT, and Reflective Practice.

Theme 5: Scientific Understanding and Thought.

DELIVERY METHOD

Coursework: Year 1 – Special Study Module (SSM), Clinical Case Presentation.

Year 2 – SSM, Clinical Case Presentation.

Year 3 – CAT (Critically Appraised Topic) update, Clinical Case Presentation.

Year 4 – CAT, Clinical Case Presentation.

Year 5 – Clinical Audit project, Clinical Case Presentation.

EBL: Interdisciplinary cases working on a two week cycle with 4 sessions per case.

Lecture/Symposium: Interdisciplinary themed theatre events combining presentations, clinical case presentations and interactive exercises.

Technical/Laboratory: Classes in skills classrooms; technical skills, clinical skills and operative skills.

Clinic: Clinical experience in a range of environments (Dental Hospital, Community Clinic, Dental Practice) working in a dental team.

ASSESSMENTS

- The assessment at the end of each year consists of five components: Multiple choice question paper (MCQ); Objective Structured Clinical Examination (OSCE); Mandatory clinical core competencies; Coursework including case presentations with structured Vivas. Students must pass MCQ, OSCE and Clinical competencies. No compensation is given.

MCQ: Multiple Choice Question paper, using best fit 1 from 4 format

OSCE: Objective Structured Clinical Examination.

Clinical Competence: Demonstration of clinical competence in the clinical environment.

Coursework: Assessment of completed projects
Viva on Case Presentation
Reflective journal, Logbook and PADP.

6. STUDENT INDUCTION, SUPPORT AND DEVELOPMENT (in order to deliver the year learning outcomes)

All students who are to be admitted to the BDS Program are sent an Induction Booklet as soon as they confirm their place with us. This booklet, prepared and updated annually in conjunction with existing students, contains information designed to assist students in the transition to University life and the BDS Program.

The first week of The Mansoura Manchester Dental Program (MMDP) is the induction week. During this week students participate in a series of induction activities designed to introduce them to Enquiry-based learning in general and Problem-based learning in particular and the concept of Personal Academic Development Planning. During this induction process students will begin to work with their Tutor Team (two tutors per group of students) and their student mentors/PASS leaders. Similar induction sessions of no more than a day's duration will be held at the commencement of each year of the Program.

Support and development is focused around each student's Personal Academic Development Plan. Each student will have at least two timetabled meetings per academic year with their assigned Tutor Team. Prior to these meetings, students will be asked to provide a summary of their progress along with their reflections on this to their tutors. This material will provide the focus of these one to one meetings between the student and one of the members of the Tutor Team. The structure of these confidential meetings will also provide opportunities to discuss issues of a personal nature, which might be affecting the student's well-being and/or performance and/or fitness to practise. During the meeting the tutor will facilitate the development of an action plan by the student providing support and guidance as required including referral to University Support Services and, if required, the School of Dentistry's Senior Tutor. At the conclusion of each meeting the student and tutor will together decide if the student's progress is excellent, satisfactory or giving cause for concern. The outcome of this final assessment is recorded on a standard formed countersigned by both the student and tutor as a standard procedure and will be fed back to the Senior Tutors Office and incorporated into the students centrally held record of progress.

In summary, the Tutor Team's role is to:

i) ideally always be the initial point of contact for students requiring urgent support and guidance.

ii) facilitate students' reflections on their personal and academic development using the students' Personal Academic Development Plan as a focus for this reflection.

iii) facilitate the development of an action plan (see above).

iv) feedback information on the student's progress to the Senior Tutor's Office.

Currently the Senior Tutor has overall responsibility for the administration and quality assurance of the School's Student Support and Guidance system. This is primarily an administrative role and in TMDP will become the responsibility of the Undergraduate Administrative Team.

The Administrative Team will:

i) review the information fed back to the Senior Tutor's Office by the Tutor Teams, identifying those students who appear to be at particular risk of failure and liaising with the Senior Tutor and Tutor Team to ensure that appropriate action plans are in place to support the students involved.

ii) review the information fed back to the Senior Tutor's Office to ensure that all students have completed their regular scheduled meetings with the Tutor Team, and contact both student and Tutor Team to follow up any occasions when this does not occur.

In MMDP the Senior Tutor will:

i) provide expert support to the Tutor Team members in fulfilling their role by acting as both as a resource and a referral point.

ii) be responsible for the provision of support and guidance to students where doubts exist as to their fitness to practise either as result of health issues or behavioural problems.

iii) assist those students who are required to appear before the Progress Committee of the School of Dentistry in the preparation and presentation of their cases to that committee.

Students occasionally feel that the issues they face are of a particularly difficult or confidential nature and can bypass the Tutor Team by coming directly to the Senior Tutor. Under these circumstances the Senior Tutor will discuss with the student why they felt that they could not approach one or other of their Tutor Team. Permission will also be sought to feedback information to the Tutor Team should this be felt to be necessary and appropriate by the student involved and the Senior Tutor.

7. CURRICULUM MAP OF COURSE UNITS AGAINST INTENDED LEARNING OUTCOMES OF THE PROGRAMME

Course Unit Title and Code (including dissertations and other programme components)	Knowledge & Understanding	Intellectual Skills	Practical Skills	Transferable Skills & Personal Qualities

Code	Course Unit title	C/O	A1	A2	A3	A4	A5	A6	A7 A8	B1	B2	B3	B4	B5	B6	B7 B8	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11 D12
	Orofacial Biology 1	C	DA	DA	DA	DA	DA		DA			D							DA																DA		
	Healthy Living 1 *(a healthy body)*	C	DA	DA			DA	DA				D					DA			DA						DA											
	Team Working, Professionalism and Patient Management 1	C		DA			DA	DA				DA		DA			DA		DA	DA	DA	DA				DA	DA	DA		DA			DA		DA	DA
	Patient Assessment 1	C	DA	D	DA		DA		DA	DA	DA			DA			DA		DA		DA						DA		DA			DA			DA		
	Disease Management 1	C					DA		DA	DA											DA	DA	DA														
	Orofacial Biology 2	C	DA	DA	DA	DA	DA		DA			D														DA				DA	DA						
	Healthy Living 2 *(a healthy mouth)*	C		DA	DA	DA	DA	DA									DA			DA								DA		DA	DA						

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Appendix 1: Undergraduate Programme Specification

Code	Course Unit title	C/O	A1	A2	A3	A4	A5	A6	A7 A8	B1	B2	B3	B4	B5	B6	B7 B8	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11 D12
	Team Working, Professionalism and Patient Management 2	C		DA			DA	DA				A		DA			DA			DA	DA	DA				DA	DA	DA	DA	DA			DA	DA	D			DA	DA
	Patient Assessment 2	C	DA		DA				DA	DA	DA	D		DA	DA			DA	DA		DA							DA	DA						D	DA		
	Disease Management 2	C					DA		DA	DA	DA			DA				DA	DA		DA	DA	DA	D					DA	DA					D			
	Orofacial Biology 3	C	DA		DA	DA	DA		DA			D																	DA									
	Healthy Living 3 *(a healthy mind)*	C						DA																		DA												
	Team Working, Professionalism and Patient Management 3	C			DA		DA		DA	DA	DA	DA	DA	DA	DA		DA		DA	DA	DA	DA				DA	DA	DA	DA	DA	DA	DA	DA	DA	DA			
	Patient Assessment 3	C	DA	DA	DA	DA	DA	DA	DA			D						DA	DA		DA		DA	DA	DA		DA	DA	DA	DA			DA	DA				
	Disease Management 3	C				DA	DA	DA	DA	DA			DA	DA				DA	DA	DA	DA	DA	DA	DA	DA				DA	DA			DA	DA				
	Orofacial Biology 4	C																								DA												
	Team Working, Professionalism and Patient Management 4	C						DA		DA		DA	DA	DA	DA	DA					DA					DA	DA			DA	DA	DA		DA	DA	DA	DA	DA	DA

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Code	Course Unit title	C/O	A1	A2	A3	A4	A5	A6	A7	A8	B1	B2	B3	B4	B5	B6	B7	B8	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12
	Patient Assessment 4	C						D A		D A						D A	D A		D A	D A	D A		D A			D A	D A	D A				D A				D A	D A	D A	D A	D A	D A
	Disease Management 4	C						D A	D A	D A						D A	D A						D A	D A	D A	D A	D A		D A							D A	D A	D A	D A	D A	D A
	Team Working, Professionalism and Patient Management 5	C														D A	D A	D A		D A			D A	D A	D A	D A	D A	D A	D A	D A	D A	D A	D A	D A	D A	D A	D A	D A	D A	D A	D A
	Preparation for Independent Practice	C								D A								D A		D A	D A	D A	D A	D A	D A	D A	D A	D A	D A							D A	D A	D A	D A	D A	D A
	The Complex Patient	C			D A					D A						D A							D A					D A		D A	D A					D A				

Legend for cells

D = skills are taught or developed by students within this course unit
A = skills are assessed within this course unit

C = compulsory course unit
O = optional course un

8. PROGRESSION AND ASSESSMENT REGULATIONS

Assessment

- Assessment is the means by which a student's performance and achievement is measured.
- There are five sets of 'professional' examinations (First, Second, Third, Fourth and Final BDS Examinations) that must be passed before a student goes on to the next stage or graduates. These are held at the end of each respective year of study.
- The assessment at the end of each year in MMDP will comprise of five components: Multiple choice question paper (MCQ), Objective Structured Clinical Examination (OSCE), Mandatory Core Competencies, Case Presentations with structured Vivas and Coursework.
- The MCQ, Coursework and OSCE are numerical assessments, although the OSCE comprises of three components, each marked separately i.e. a knowledge section, skills section and a communication section.
- The Core competencies, Case Presentations and CPR assessment are not given numerical assessments.
- A student successfully completes a unit by demonstrating achievement of specified intended learning outcomes. For numerical assessment, marks are determined by the extent to which the student achieves the intended learning outcomes, such that in principle the full range from 0 to 100% is available. Where there is numerical assessment, the normal pass mark will be 50%. Where there is no numerical assessment the unit will be graded pass or fail.
- For the purposes of determining progression, the percentage mark that represents a compensatable fail will be not less than 40%. Where a unit is graded simply pass or fail there is no compensatable fail mark.

Progression

- The overall mark for a given year of a programme will be calculated as an average of the numerical marks awarded for that year. Units graded pass or fail are excluded from the calculation.
- The minimum overall pass mark will be 50% to progress from one year of the programme to the next, in which the student must:
    - reach the minimum pass mark overall in the numerical assessments;
    - obtain a pass grade in each of the pass/fail assessments.
- A student who fails to meet the above criteria to progress to a subsequent year of the programme will be reassessed in all units for which a pass mark was not attained. Such reassessment is designed to assess achievement of the same intended learning outcomes, but may not be of the same form as originally used. It will normally take place in time for the student to progress at the time originally intended. In order to progress, a student will be required to pass each unit reassessed. The student will then be deemed to have obtained the credits necessary for progression. However, the marks originally obtained will be used to calculate the overall mark for the year.
- A student who fails to progress to a subsequent year of the programme having failed after reassessment to reach the pass mark is given an opportunity to attend a meeting of the Dental Progress Committee at which their failure, possible extenuating circumstances, and the possibility of further attempts at an examination are discussed. Prior to the Progress Committee meeting students are invited to meet The Senior Tutor to discuss the circumstances that they plan to present to the Progress Committee. The Senior Tutor's role at the Progress Committee meeting is to support those students who wish to attend in person and to represent those students who do not wish to/are unable to attend.
- A student who reaches the minimum pass mark overall in the numerical assessments, but does not obtain a pass grade in the pass/fail assessments or reassessments at the end of Year 3 of the programme will be offered the opportunity to graduate with the degree of B.Med.Sc.(Dent) as a fall-back qualification.

Classification Criteria

- A student who obtains an overall mark of not less than 85%, and has obtained marks of not less than 60% in each year of the programme will be considered for the award of Bachelor in Dental Surgery (BDS) with Honours.

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Programme Accreditation	General Dental Council
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02.	Can apply intellectual skills, knowledge, and behaviours in the field of dentistry;
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And to complete the BDS programme the aims are to graduate a professional and ethical dentist who can demonstrate the ability to:

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A2	Understanding of the functions of the main systems of the human body, with particular reference to oral and peri-oral region.
A3	Understanding of the alterations to normal structure and function in disease, with particular reference to oral and peri-oral region.
A4	Understanding of the role of micro-organisms in man in health and disease, with particular reference to oral and dental disease.
A5	The ability to relate diet to health and disease, with particular reference to oral and dental disease.
A6	Understanding and the ability to discuss behavioural and social factors contributing to health and disease, with particular reference to oral and dental disease.
A7	Understanding of the impact of pharmaceutical agents on the functioning of the mouth.
And to complete the BDS Programme:	
A8	Understanding of the biological and technical demands of restoration of the diseased dentition.

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• Problem-based learning (A1–A8) • Course work – SSM (A1-A7), CAT (A8), Case Presentations (A5–A8) • Lectures / Symposia (A1-A8)	• Multiple choice (MCQ) paper (A1-A8) • Short answer (SAQ) paper (A1–A8) • Assessment of submitted work – SSM (A1-A7), CAT (A8) • Viva – Case Presentation (A5-A8)

	B. Intellectual Skills
	The student will be able to demonstrate the ability to:
B1	Formulate relevant questions and gather the necessary information when faced with problems related to the practice of dentistry.
B2	Analyse and evaluate relevant information when faced with problems related to the practice of dentistry.
B3	Demonstrate an understanding of different opportunities for learning.
B4	Critically appraise alternative courses of action, including appropriate referral, from the analysis and evaluation of relevant information when faced with problems related to the practice of dentistry.
B5	Understand the concepts underlying evidence-based dentistry and evaluate published articles, understand the strength of evidence represented, and draw appropriate conclusion in the light of the body of the literature.
B6	Demonstrate a critical understanding of the complex issues involved in applying basic sciences to clinical dental practice
And to complete the BDS Programme:	
B7	Understand the limitations of their current knowledge and clinical competency.
B8	Demonstrate a knowledge of the components of clinical governance, including being able to explain and give examples of the clinical audit cycle in dental practice.

Learning & Teaching Processes	Assessment
• Problem-based learning (B1-B8) • Course work – SSM (B1-B3, B6) CAT (B1-B5), Case Presentations (B6), Governance project (B8) • Lectures / Symposia (B1-B8)	• MCQ (B1, B2, B4-B7) • SAQ (B1-B8) • Assessment of submitted work – SSM (B1, B2, B6), CAT (B1-B5), Governance Project (B8) • Viva - Case presentation (B6)

C. Practical Skills	
	The student will be able to demonstrate the ability to:
C1	Elicit, interpret and understand a history and undertake an extra- and intra-oral examination of both adult and child patients.
C2	Synthesise clinical findings to identify differential diagnoses and identify and interpret appropriate investigations.
C3	Have a critical understanding of the risks and benefits of the range of imaging techniques used in dentistry.
C4	Demonstrate the ability to effectively deliver health education to individuals and groups.
And to complete the BDS Program:	
C5	Handle dental instruments and materials safely and in accordance with current cross infection guidelines and work effectively and safely as part of the dental team.
C6	Competently perform the techniques required for administration of local anaesthesia, including regional, topical and infiltration techniques, to enable the effective delivery of dental treatment.
C7	Competently prepare teeth and place indirect and direct restorations in children and adults using contemporary dental materials.
C8	Competently use forceps, elevators and surgical procedures to remove permanent and primary teeth and roots, and perform soft tissues procedures.
C9	Understand and monitor, and when relevant undertake procedures to manage, developing and manifest problems related to the occlusion.
C10	Demonstrate the ability to prevent and manage medical emergencies that may occur in dental practice including the ability to perform cardiopulmonary resuscitation procedures.
C11	Apply anxiety management and sedation techniques when appropriate to enable the effective delivery of dental care to both children and adults.

Learning & Teaching Processes	Assessment
• Problem-based learning (C1-C11) • Course work – Case Presentations (C1-C4, C9) • Lectures / Symposia (C1–C11) • Technical / laboratory skills classes (C1, C5-C11) • Clinical experience (C1-C11)	• MCQ (C3-C5, C10) • SAQ (C3–C5, C9, C10) • OSCE (C1, C2, C5–C11) • Competency assessments (C1, C2, C5–C11) • Viva - Case presentation (C1-C4, C9, C11)

D. Transferable Skills and Personal Qualities

The student will be able to:

D1	Demonstrate the ability to put into practise the skills involved in active listening.
D2	Describe dental concepts in a way appropriate for both patients and colleagues to understand.
D3	Advance an argument, including use of the written and spoken word, in a professional and effective manner.
D4	Prepare and deliver a presentation on a chosen topic, showing critical analysis and synthesis of the material presented.
D5	Demonstrate the ability to use the Internet in a knowledgeable and critical way to gain information on contemporary dental issues, including the ability to carry out on-line searches of databases to resource assessment tasks.
D6	Communicate effectively and appropriately using e-mail, with knowledge of the limitations and restrictions on this form of communication.
D7	Demonstrate an understanding of how teams work and form and the decision making process and the effects of stress on the team and its individual members.
And to complete the BDS Program:	
D8	Empathise with adult and child patients, showing understanding of their concerns and desires both in communicating and in delivering treatment procedures.
D9	Demonstrate the ability to discharge the legal and professional responsibilities of a dentist with respect to patient management with regard to current guidance from the General Dental Council.
D10	Understand and display the characteristics of a leader in a dental team.
D11	Develop a PDP to demonstrate an understanding of one's own needs and how best to meet these as a practicing dentist.
D12	Demonstrate creativity and imagination in their approach to dentistry.

Learning & Teaching Processes	Assessment
• Problem-based learning (D1-D12) • Course work – SSM (D3, D5) CAT (D3–D5) Case Presentations (D2, D3, D5, D9) • Lectures / Symposia (D4, D5-D7, D9) • Clinical experience (D1, D7–D12) • PDP (D11)	→ • MCQ (D6, D9) • SAQ (D6, D7, D10) • OSCE (D1, D2, D5, D7-D9) • Assessment of submitted work – SSM (D3, D5) CAT (D3, D4, D5, D12) • Viva - Case presentation (D1, D2, D5, D9, D10, D12) • Reflective writing (D11, D12)

4. THE STRUCTURE OF THE PROGRAMME(S)

Program structure

Year 1 – Basic building blocks	**LEVEL**	**CREDITS**
Compulsory		
Unit 1 - Orofacial Biology 1	**C**	**60 (600 hours)**
Unit 2 - Healthy Living 1 *(a healthy body)*	**C**	**20 (200 hours)**
Unit 3 - Team Working, Professionalism and Patient Management 1	**C**	**20 (200 hours)**
Unit 4 - Patient Assessment 1	**C**	**10 (100 hours)**
Unit 5 - Disease Management 1	**C**	**10 (100 hours)**

Year 2 - Building your knowledge skills and attitudes

Compulsory		
Unit 1 - Orofacial Biology 2	**I**	**40 (400 hours)**
Unit 2 - Healthy Living 2 *(a healthy mouth)*	**C**	**20 (200 hours)**
Unit 3 - Team Working, Professionalism and Patient Management 2	**I**	**20 (200 hours)**
Unit 4 - Patient Assessment 2	**I**	**20 (200 hours)**
Unit 5 - Disease Management 2	**I**	**20 (200 hours)**

Year 3 - Integrating knowledge skills and attitudes

Compulsory		
Unit 1 - Orofacial Biology 3	**H**	**20 (200 hours)**
Unit 2 - Healthy Living 3 *(a healthy mind)*	**H**	**20 (200 hours)**
Unit 3 - Team Working, Professionalism and Patient Management 3	**H**	**20 (200 hours)**
Unit 4 - Patient Assessment 3	**I**	**30 + 20** [special credit] **(500 hours)**
Unit 5 - Disease Management 3	**I**	**30 + 20** [special credit] **(500 hours)**

Year 4 - Achieving Clinical Competence

Compulsory		
Unit 1 - Orofacial Biology 4	**H**	**10 (100 hours)**
Unit 2 - Team Working, Professionalism and Patient Management 4	**H**	**20 (200 hours)**
Unit 3 - Patient Assessment 4	**I**	**30 + 20** [special credit] **(500 hours)**
Unit 4 - Disease Management 4	**H**	**60 + 20** [special credit] **(800 hours)**

Year 5 - Towards Professional Competence

Compulsory		
Unit 1 - Team Working, Professionalism and Patient Management 5	**H**	**20 (200 hours)**
Unit 2 - Preparation for Independent Practice	**H**	**60 + 20** [special credit] **(800 hours)**
Unit 3 - The Complex Patient	**H**	**40 (400 hours)**

Key: Level C = Certificate
Level I = Intermediate
Level H = Honours

Learning at this level will reflect the ability to:

- Level C – develop a rigorous approach to the acquisition of a broad knowledge base; employ a range of specialised skills; evaluate information using it to plan and develop investigative strategies and to determine solutions to a variety of unpredictable problems; and operate in a range of varied and specific contexts, taking responsibility for the nature and quality of outputs.
- Level I – generate ideas through the analysis of concepts at an abstract level, with a command of specialised skills and the formulation of responses to well defined and abstract problems; analyse and evaluate information; exercise significant judgement across a broad range of functions; and accept responsibility for determining and achieving personal and/or group outcomes.
- Level H – critically review, consolidate and extend a systematic and coherent body of knowledge, utilising specialised skills across an area of study; critically evaluate new concepts and evidence from a range of sources; transfer and apply diagnostic and creative skills and exercise significant judgement in a range of situations; and accept accountability for determining and achieving personal and/or group outcomes.

5. CURRICULUM PROGRESSION: INTENDED LEARNING OUTCOMES FOR EACH YEAR

Year	**Intended learning outcomes** (All the course units are compulsory)
Year 1 to 5	**See Appendix 2 of the intended learning outcomes for each of Years 1-5, where year by year learning outcomes are shown to demonstrate progression.**

The attached table (Appendix 2) lists the intended learning outcomes (ILO) for each of the five years of the programme and outlines:

- Which of the 5 Themes the ILO contributes to;
- Which Unit(s) the ILO is delivered in;
- Method of delivery for each ILO;
- Method of assessment for each ILO.

PROGRAMME STRUCTURE

Year	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5
Year 1: Basic Building Blocks	Orofacial Biology 1 (Level C, 60 credits)	Healthy Living 1 *(a healthy body)* (Level C, 20 credits)	Team Working, Professionalism and Patient Management 1 (Level C, 20 credits)	Patient Assessment 1 (Level C, 10 credits)	Disease Management 1 (Level C, 10 credits)
Year 2: Building your knowledge skills and attitudes	Orofacial Biology 2 (Level I, 40 credits)	Healthy Living 2 *(a healthy mouth)* (Level C, 20 credits)	Team Working, Professionalism and Patient Management 2 (Level I, 20 credits)	Patient Assessment 2 (Level I, 20 credits)	Disease Management 2 (Level I, 20 credits)
Year 3: Integrating knowledge skills and attitudes	Orofacial Biology 3 (Level H, 20 credits)	Healthy Living 3 *(a healthy mind)* (Level H, 20 credits)	Team Working, Professionalism and Patient Management 3 (Level H, 20 credits)	Patient Assessment 3 (Level I, 30 + 20 special credits)	Disease Management 3 (Level I, 30 + 20 special credits)
Year 4: Achieving Clinical Competence	Orofacial Biology 4 (Level H, 10 credits)	Team Working, Professionalism and Patient Management 4 (Level H, 20 credits)	Patient Assessment 4 (Level I, 30 + 20 special credits)	Disease Management 4 (Level H, 60 + 20 special credits)	
Year 5: Towards Professional Competence	Team Working, Professionalism and Patient Management 5 (Level H, 20 credits)	Preparation for Independent Practice (Level H, 60 + 20 special credits)	The Complex Patient (Level H, 40 credits)		

THE FIVE THEMES

Theme 1: Human Health and Disease.

Theme 2: The Mouth in Heath and Disease.

Theme 3: Clinical Competence, including patient management.

Theme 4: Communication Skills, Teamwork, ICT, and Reflective Practice.

Theme 5: Scientific Understanding and Thought.

DELIVERY METHOD

Coursework: Year 1 – Special Study Module (SSM), Clinical Case Presentation.

Year 2 – SSM, Clinical Case Presentation.

Year 3 – CAT (Critically Appraised Topic) update, Clinical Case Presentation.

Year 4 – CAT, Clinical Case Presentation.

Year 5 – Clinical Audit project, Clinical Case Presentation.

EBL: Interdisciplinary cases working on a two week cycle with 4 sessions per case.

Lecture/Symposium: Interdisciplinary themed theatre events combining presentations, clinical case presentations and interactive exercises.

Technical/Laboratory: Classes in skills classrooms; technical skills, clinical skills and operative skills.

Clinic: Clinical experience in a range of environments (Dental Hospital, Community Clinic, Dental Practice) working in a dental team.

ASSESSMENTS

- The assessment at the end of each year consists of five components: Multiple choice question paper (MCQ); Objective Structured Clinical Examination (OSCE); Mandatory clinical core competencies; Coursework including case presentations with structured Vivas. Students must pass MCQ, OSCE and Clinical competencies. No compensation is given.

MCQ: Multiple Choice Question paper, using best fit 1 from 4 format

OSCE: Objective Structured Clinical Examination.

Clinical Competence: Demonstration of clinical competence in the clinical environment.

Coursework: Assessment of completed projects
Viva on Case Presentation
Reflective journal, Logbook and PADP.

6. STUDENT INDUCTION, SUPPORT AND DEVELOPMENT (in order to deliver the year learning outcomes)

All students who are to be admitted to the BDS Program are sent an Induction Booklet as soon as they confirm their place with us. This booklet, prepared and updated annually in conjunction with existing students, contains information designed to assist students in the transition to University life and the BDS Program.

The first week of The Mansoura Manchester Dental Program (MMDP) is the induction week. During this week students participate in a series of induction activities designed to introduce them to Enquiry-based learning in general and Problem-based learning in particular and the concept of Personal Academic Development Planning. During this induction process students will begin to work with their Tutor Team (two tutors per group of students) and their student mentors/PASS leaders. Similar induction sessions of no more than a day's duration will be held at the commencement of each year of the Program.

Support and development is focused around each student's Personal Academic Development Plan. Each student will have at least two timetabled meetings per academic year with their assigned Tutor Team. Prior to these meetings, students will be asked to provide a summary of their progress along with their reflections on this to their tutors. This material will provide the focus of these one to one meetings between the student and one of the members of the Tutor Team. The structure of these confidential meetings will also provide opportunities to discuss issues of a personal nature, which might be affecting the student's well-being and/or performance and/or fitness to practise. During the meeting the tutor will facilitate the development of an action plan by the student providing support and guidance as required including referral to University Support Services and, if required, the School of Dentistry's Senior Tutor. At the conclusion of each meeting the student and tutor will together decide if the student's progress is excellent, satisfactory or giving cause for concern. The outcome of this final assessment is recorded on a standard formed countersigned by both the student and tutor as a standard procedure and will be fed back to the Senior Tutors Office and incorporated into the students centrally held record of progress.

In summary, the Tutor Team's role is to:

i) ideally always be the initial point of contact for students requiring urgent support and guidance.

ii) facilitate students' reflections on their personal and academic development using the students' Personal Academic Development Plan as a focus for this reflection.

iii) facilitate the development of an action plan (see above).

iv) feedback information on the student's progress to the Senior Tutor's Office.

Currently the Senior Tutor has overall responsibility for the administration and quality assurance of the School's Student Support and Guidance system. This is primarily an administrative role and in TMDP will become the responsibility of the Undergraduate Administrative Team.

The Administrative Team will:

i) review the information fed back to the Senior Tutor's Office by the Tutor Teams, identifying those students who appear to be at particular risk of failure and liaising with the Senior Tutor and Tutor Team to ensure that appropriate action plans are in place to support the students involved.

ii) review the information fed back to the Senior Tutor's Office to ensure that all students have completed their regular scheduled meetings with the Tutor Team, and contact both student and Tutor Team to follow up any occasions when this does not occur.

In MMDP the Senior Tutor will:

i) provide expert support to the Tutor Team members in fulfilling their role by acting as both as a resource and a referral point.

ii) be responsible for the provision of support and guidance to students where doubts exist as to their fitness to practise either as result of health issues or behavioural problems.

iii) assist those students who are required to appear before the Progress Committee of the School of Dentistry in the preparation and presentation of their cases to that committee.

Students occasionally feel that the issues they face are of a particularly difficult or confidential nature and can bypass the Tutor Team by coming directly to the Senior Tutor. Under these circumstances the Senior Tutor will discuss with the student why they felt that they could not approach one or other of their Tutor Team. Permission will also be sought to feedback information to the Tutor Team should this be felt to be necessary and appropriate by the student involved and the Senior Tutor.

7. CURRICULUM MAP OF COURSE UNITS AGAINST INTENDED LEARNING OUTCOMES OF THE PROGRAMME

Course Unit Title and Code (including dissertations and other programme components)	Knowledge & Understanding	Intellectual Skills	Practical Skills	Transferable Skills & Personal Qualities

Code	Course Unit title	C/O	A1	A2	A3	A4	A5	A6	A7 A8	B1	B2	B3	B4	B5	B6	B7 B8	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11 D12
	Orofacial Biology 1	C	DA	DA	DA	DA	DA		DA			D							DA																DA		
	Healthy Living 1 *(a healthy body)*	C	DA	DA			DA	DA				D					DA			DA						DA											
	Team Working, Professionalism and Patient Management 1	C		DA			DA	DA				DA		DA			DA		DA	DA	DA	DA				DA	DA	DA		DA			DA		DA	DA
	Patient Assessment 1	C	DA	D	DA		DA		DA	DA	DA			DA			DA		DA		DA						DA		DA			DA			DA		
	Disease Management 1	C					DA		DA	DA											DA	DA	DA														
	Orofacial Biology 2	C	DA	DA	DA	DA	DA		DA			D														DA				DA	DA						
	Healthy Living 2 *(a healthy mouth)*	C		DA	DA	DA	DA	DA									DA			DA								DA		DA	DA						

THE UNIVERSITY OF MANCHESTER
Appendix 1: Undergraduate Programme Specification

Code	Course Unit title	C/O	A1	A2	A3	A4	A5	A6	A7 A8	B1	B2	B3	B4	B5	B6	B7 B8	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11 D12
	Team Working, Professionalism and Patient Management 2	C		DA			DA	DA				A		DA			DA			DA	DA	DA				DA	DA	DA	DA	DA			DA	DA	D			DA	DA
	Patient Assessment 2	C	DA		DA				DA	DA	DA	D		DA	DA			DA	DA		DA							DA	DA						D	DA		
	Disease Management 2	C					DA		DA	DA	DA			DA				DA	DA		DA	DA	DA	D					DA	DA					D			
	Orofacial Biology 3	C	DA		DA	DA	DA		DA			D																	DA									
	Healthy Living 3 *(a healthy mind)*	C						DA																		DA												
	Team Working, Professionalism and Patient Management 3	C			DA		DA		DA	DA	DA	DA	DA	DA	DA		DA		DA	DA	DA	DA				DA	DA	DA	DA	DA	DA	DA	DA	DA	DA			
	Patient Assessment 3	C	DA	DA	DA	DA	DA	DA	DA			D						DA	DA		DA		DA	DA	DA		DA	DA	DA	DA			DA	DA				
	Disease Management 3	C				DA	DA	DA	DA	DA			DA	DA				DA	DA	DA	DA	DA	DA	DA	DA				DA	DA			DA	DA				
	Orofacial Biology 4	C																								DA												
	Team Working, Professionalism and Patient Management 4	C						DA		DA		DA	DA	DA	DA	DA					DA					DA	DA			DA	DA	DA		DA	DA	DA	DA	DA	DA

THE UNIVERSITY OF MANCHESTER
Appendix 1: Undergraduate Programme Specification

Code	Course Unit title	C/O	A1	A2	A3	A4	A5	A6	A7	A8	B1	B2	B3	B4	B5	B6	B7	B8	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12
	Patient Assessment 4	C						D A		D A						D A	D A		D A	D A	D A		D A			D A	D A	D A				D A				D A	D A	D A	D A	D A	D A
	Disease Management 4	C						D A	D A	D A						D A	D A						D A	D A	D A	D A	D A		D A							D A	D A	D A	D A	D A	D A
	Team Working, Professionalism and Patient Management 5	C														D A	D A	D A		D A			D A	D A	D A	D A	D A	D A	D A	D A	D A	D A	D A	D A	D A	D A	D A	D A	D A	D A	D A
	Preparation for Independent Practice	C								D A								D A		D A	D A	D A	D A	D A	D A	D A	D A	D A	D A							D A	D A	D A	D A	D A	D A
	The Complex Patient	C			D A					D A						D A							D A					D A		D A	D A					D A				

Legend for cells

D = skills are taught or developed by students within this course unit
A = skills are assessed within this course unit

C = compulsory course unit
O = optional course un

8. PROGRESSION AND ASSESSMENT REGULATIONS

Assessment

- Assessment is the means by which a student's performance and achievement is measured.
- There are five sets of 'professional' examinations (First, Second, Third, Fourth and Final BDS Examinations) that must be passed before a student goes on to the next stage or graduates. These are held at the end of each respective year of study.
- The assessment at the end of each year in MMDP will comprise of five components: Multiple choice question paper (MCQ), Objective Structured Clinical Examination (OSCE), Mandatory Core Competencies, Case Presentations with structured Vivas and Coursework.
- The MCQ, Coursework and OSCE are numerical assessments, although the OSCE comprises of three components, each marked separately i.e. a knowledge section, skills section and a communication section.
- The Core competencies, Case Presentations and CPR assessment are not given numerical assessments.
- A student successfully completes a unit by demonstrating achievement of specified intended learning outcomes. For numerical assessment, marks are determined by the extent to which the student achieves the intended learning outcomes, such that in principle the full range from 0 to 100% is available. Where there is numerical assessment, the normal pass mark will be 50%. Where there is no numerical assessment the unit will be graded pass or fail.
- For the purposes of determining progression, the percentage mark that represents a compensatable fail will be not less than 40%. Where a unit is graded simply pass or fail there is no compensatable fail mark.

Progression

- The overall mark for a given year of a programme will be calculated as an average of the numerical marks awarded for that year. Units graded pass or fail are excluded from the calculation.
- The minimum overall pass mark will be 50% to progress from one year of the programme to the next, in which the student must:
    - reach the minimum pass mark overall in the numerical assessments;
    - obtain a pass grade in each of the pass/fail assessments.
- A student who fails to meet the above criteria to progress to a subsequent year of the programme will be reassessed in all units for which a pass mark was not attained. Such reassessment is designed to assess achievement of the same intended learning outcomes, but may not be of the same form as originally used. It will normally take place in time for the student to progress at the time originally intended. In order to progress, a student will be required to pass each unit reassessed. The student will then be deemed to have obtained the credits necessary for progression. However, the marks originally obtained will be used to calculate the overall mark for the year.
- A student who fails to progress to a subsequent year of the programme having failed after reassessment to reach the pass mark is given an opportunity to attend a meeting of the Dental Progress Committee at which their failure, possible extenuating circumstances, and the possibility of further attempts at an examination are discussed. Prior to the Progress Committee meeting students are invited to meet The Senior Tutor to discuss the circumstances that they plan to present to the Progress Committee. The Senior Tutor's role at the Progress Committee meeting is to support those students who wish to attend in person and to represent those students who do not wish to/are unable to attend.
- A student who reaches the minimum pass mark overall in the numerical assessments, but does not obtain a pass grade in the pass/fail assessments or reassessments at the end of Year 3 of the programme will be offered the opportunity to graduate with the degree of B.Med.Sc.(Dent) as a fall-back qualification.

Classification Criteria

- A student who obtains an overall mark of not less than 85%, and has obtained marks of not less than 60% in each year of the programme will be considered for the award of Bachelor in Dental Surgery (BDS) with Honours.

Mansoura Manchester Dental Program

Program Specification

2022/2023

Mansoura Manchester Dental Program
Program Specification
2022/2023

1. GENERAL INFORMATION

Code	Award	Program Title	Duration	Mode of study
	BDS	The Mansoura Manchester Dental Program – Bachelor in Dental Surgery	5 years	Full time

School	School of Dentistry
Faculty	Faculty of Dentistry Mansoura University
Awarding Institution	The University of Mansoura
Programme Accreditation	General Dental Council
Relevant QAA benchmark(s)	Dentistry

2. AIMS OF THE PROGRAMME(S)

The program aim to produce a graduate who:

01.	Has the knowledge to have a critical understanding of the complex issues involved in the scientific basis of dentistry;
02.	Can apply intellectual skills, knowledge, and behaviours in the field of dentistry;
03.	Can be reflective, committed to lifelong learning.

And to complete the BDS programme the aims are to graduate a professional and ethical dentist who can demonstrate the ability to:

04.	Take a patient-centred approach to clinical care within the dental team;
05.	Apply clinical skills, knowledge, and behaviours in independent dental practice.

3. INTENDED LEARNING OUTCOMES OF THE PROGRAMME(S)

	A. Knowledge & Understanding
	The student will be able to demonstrate:
A1	Knowledge of, and understanding of the relationship between, the normal structure and development of the human body, with particular reference to oral and peri-oral region.
A2	Understanding of the functions of the main systems of the human body, with particular reference to oral and peri-oral region.
A3	Understanding of the alterations to normal structure and function in disease, with particular reference to oral and peri-oral region.
A4	Understanding of the role of micro-organisms in man in health and disease, with particular reference to oral and dental disease.
A5	The ability to relate diet to health and disease, with particular reference to oral and dental disease.
A6	Understanding and the ability to discuss behavioural and social factors contributing to health and disease, with particular reference to oral and dental disease.
A7	Understanding of the impact of pharmaceutical agents on the functioning of the mouth.
And to complete the BDS Programme:	
A8	Understanding of the biological and technical demands of restoration of the diseased dentition.

Learning & Teaching Processes (to allow students to achieve intended learning outcomes)	**Assessment** (of intended learning outcomes)
• Problem-based learning (A1–A8) • Course work – SSM (A1-A7), CAT (A8), Case Presentations (A5–A8) • Lectures / Symposia (A1-A8)	• Multiple choice (MCQ) paper (A1-A8) • Short answer (SAQ) paper (A1–A8) • Assessment of submitted work – SSM (A1-A7), CAT (A8) • Viva – Case Presentation (A5-A8)

	B. Intellectual Skills
	The student will be able to demonstrate the ability to:
B1	Formulate relevant questions and gather the necessary information when faced with problems related to the practice of dentistry.
B2	Analyse and evaluate relevant information when faced with problems related to the practice of dentistry.
B3	Demonstrate an understanding of different opportunities for learning.
B4	Critically appraise alternative courses of action, including appropriate referral, from the analysis and evaluation of relevant information when faced with problems related to the practice of dentistry.
B5	Understand the concepts underlying evidence-based dentistry and evaluate published articles, understand the strength of evidence represented, and draw appropriate conclusion in the light of the body of the literature.
B6	Demonstrate a critical understanding of the complex issues involved in applying basic sciences to clinical dental practice
And to complete the BDS Programme:	
B7	Understand the limitations of their current knowledge and clinical competency.
B8	Demonstrate a knowledge of the components of clinical governance, including being able to explain and give examples of the clinical audit cycle in dental practice.

Learning & Teaching Processes	Assessment
• Problem-based learning (B1-B8) • Course work – SSM (B1-B3, B6) CAT (B1-B5), Case Presentations (B6), Governance project (B8) • Lectures / Symposia (B1-B8)	• MCQ (B1, B2, B4-B7) • SAQ (B1-B8) • Assessment of submitted work – SSM (B1, B2, B6), CAT (B1-B5), Governance Project (B8) • Viva - Case presentation (B6)

C. Practical Skills	
	The student will be able to demonstrate the ability to:
C1	Elicit, interpret and understand a history and undertake an extra- and intra-oral examination of both adult and child patients.
C2	Synthesise clinical findings to identify differential diagnoses and identify and interpret appropriate investigations.
C3	Have a critical understanding of the risks and benefits of the range of imaging techniques used in dentistry.
C4	Demonstrate the ability to effectively deliver health education to individuals and groups.
And to complete the BDS Program:	
C5	Handle dental instruments and materials safely and in accordance with current cross infection guidelines and work effectively and safely as part of the dental team.
C6	Competently perform the techniques required for administration of local anaesthesia, including regional, topical and infiltration techniques, to enable the effective delivery of dental treatment.
C7	Competently prepare teeth and place indirect and direct restorations in children and adults using contemporary dental materials.
C8	Competently use forceps, elevators and surgical procedures to remove permanent and primary teeth and roots, and perform soft tissues procedures.
C9	Understand and monitor, and when relevant undertake procedures to manage, developing and manifest problems related to the occlusion.
C10	Demonstrate the ability to prevent and manage medical emergencies that may occur in dental practice including the ability to perform cardiopulmonary resuscitation procedures.
C11	Apply anxiety management and sedation techniques when appropriate to enable the effective delivery of dental care to both children and adults.

Learning & Teaching Processes	Assessment
• Problem-based learning (C1-C11) • Course work – Case Presentations (C1-C4, C9) • Lectures / Symposia (C1–C11) • Technical / laboratory skills classes (C1, C5-C11) • Clinical experience (C1-C11)	• MCQ (C3-C5, C10) • SAQ (C3–C5, C9, C10) • OSCE (C1, C2, C5–C11) • Competency assessments (C1, C2, C5–C11) • Viva - Case presentation (C1-C4, C9, C11)

D. Transferable Skills and Personal Qualities

The student will be able to:

D1	Demonstrate the ability to put into practise the skills involved in active listening.
D2	Describe dental concepts in a way appropriate for both patients and colleagues to understand.
D3	Advance an argument, including use of the written and spoken word, in a professional and effective manner.
D4	Prepare and deliver a presentation on a chosen topic, showing critical analysis and synthesis of the material presented.
D5	Demonstrate the ability to use the Internet in a knowledgeable and critical way to gain information on contemporary dental issues, including the ability to carry out on-line searches of databases to resource assessment tasks.
D6	Communicate effectively and appropriately using e-mail, with knowledge of the limitations and restrictions on this form of communication.
D7	Demonstrate an understanding of how teams work and form and the decision making process and the effects of stress on the team and its individual members.
And to complete the BDS Program:	
D8	Empathise with adult and child patients, showing understanding of their concerns and desires both in communicating and in delivering treatment procedures.
D9	Demonstrate the ability to discharge the legal and professional responsibilities of a dentist with respect to patient management with regard to current guidance from the General Dental Council.
D10	Understand and display the characteristics of a leader in a dental team.
D11	Develop a PDP to demonstrate an understanding of one's own needs and how best to meet these as a practicing dentist.
D12	Demonstrate creativity and imagination in their approach to dentistry.

Learning & Teaching Processes	Assessment
• Problem-based learning (D1-D12) • Course work – SSM (D3, D5) CAT (D3–D5) Case Presentations (D2, D3, D5, D9) • Lectures / Symposia (D4, D5-D7, D9) • Clinical experience (D1, D7–D12) • PDP (D11)	• MCQ (D6, D9) • SAQ (D6, D7, D10) • OSCE (D1, D2, D5, D7-D9) • Assessment of submitted work – SSM (D3, D5) CAT (D3, D4, D5, D12) • Viva - Case presentation (D1, D2, D5, D9, D10, D12) • Reflective writing (D11, D12)

4. THE STRUCTURE OF THE PROGRAMME(S)

Program structure

Year 1 – Basic building blocks	**LEVEL**	**CREDITS**
Compulsory		
Unit 1 - Orofacial Biology 1	**C**	**60 (600 hours)**
Unit 2 - Healthy Living 1 *(a healthy body)*	**C**	**20 (200 hours)**
Unit 3 - Team Working, Professionalism and Patient Management 1	**C**	**20 (200 hours)**
Unit 4 - Patient Assessment 1	**C**	**10 (100 hours)**
Unit 5 - Disease Management 1	**C**	**10 (100 hours)**

Year 2 - Building your knowledge skills and attitudes

Compulsory		
Unit 1 - Orofacial Biology 2	**I**	**40 (400 hours)**
Unit 2 - Healthy Living 2 *(a healthy mouth)*	**C**	**20 (200 hours)**
Unit 3 - Team Working, Professionalism and Patient Management 2	**I**	**20 (200 hours)**
Unit 4 - Patient Assessment 2	**I**	**20 (200 hours)**
Unit 5 - Disease Management 2	**I**	**20 (200 hours)**

Year 3 - Integrating knowledge skills and attitudes

Compulsory		
Unit 1 - Orofacial Biology 3	**H**	**20 (200 hours)**
Unit 2 - Healthy Living 3 *(a healthy mind)*	**H**	**20 (200 hours)**
Unit 3 - Team Working, Professionalism and Patient Management 3	**H**	**20 (200 hours)**
Unit 4 - Patient Assessment 3	**I**	**30 + 20** [special credit] **(500 hours)**
Unit 5 - Disease Management 3	**I**	**30 + 20** [special credit] **(500 hours)**

Year 4 - Achieving Clinical Competence

Compulsory		
Unit 1 - Orofacial Biology 4	**H**	**10 (100 hours)**
Unit 2 - Team Working, Professionalism and Patient Management 4	**H**	**20 (200 hours)**
Unit 3 - Patient Assessment 4	**I**	**30 + 20** [special credit] **(500 hours)**
Unit 4 - Disease Management 4	**H**	**60 + 20** [special credit] **(800 hours)**

Year 5 - Towards Professional Competence

Compulsory		
Unit 1 - Team Working, Professionalism and Patient Management 5	**H**	**20 (200 hours)**
Unit 2 - Preparation for Independent Practice	**H**	**60 + 20** [special credit] **(800 hours)**
Unit 3 - The Complex Patient	**H**	**40 (400 hours)**

Key: Level C = Certificate
Level I = Intermediate
Level H = Honours

Learning at this level will reflect the ability to:

- Level C – develop a rigorous approach to the acquisition of a broad knowledge base; employ a range of specialised skills; evaluate information using it to plan and develop investigative strategies and to determine solutions to a variety of unpredictable problems; and operate in a range of varied and specific contexts, taking responsibility for the nature and quality of outputs.
- Level I – generate ideas through the analysis of concepts at an abstract level, with a command of specialised skills and the formulation of responses to well defined and abstract problems; analyse and evaluate information; exercise significant judgement across a broad range of functions; and accept responsibility for determining and achieving personal and/or group outcomes.
- Level H – critically review, consolidate and extend a systematic and coherent body of knowledge, utilising specialised skills across an area of study; critically evaluate new concepts and evidence from a range of sources; transfer and apply diagnostic and creative skills and exercise significant judgement in a range of situations; and accept accountability for determining and achieving personal and/or group outcomes.

5. CURRICULUM PROGRESSION: INTENDED LEARNING OUTCOMES FOR EACH YEAR

Year	**Intended learning outcomes** (All the course units are compulsory)
Year 1 to 5	**See Appendix 2 of the intended learning outcomes for each of Years 1-5, where year by year learning outcomes are shown to demonstrate progression.**

The attached table (Appendix 2) lists the intended learning outcomes (ILO) for each of the five years of the programme and outlines:

- Which of the 5 Themes the ILO contributes to;
- Which Unit(s) the ILO is delivered in;
- Method of delivery for each ILO;
- Method of assessment for each ILO.

PROGRAMME STRUCTURE

Year	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5
Year 1: Basic Building Blocks	Orofacial Biology 1 (Level C, 60 credits)	Healthy Living 1 *(a healthy body)* (Level C, 20 credits)	Team Working, Professionalism and Patient Management 1 (Level C, 20 credits)	Patient Assessment 1 (Level C, 10 credits)	Disease Management 1 (Level C, 10 credits)
Year 2: Building your knowledge skills and attitudes	Orofacial Biology 2 (Level I, 40 credits)	Healthy Living 2 *(a healthy mouth)* (Level C, 20 credits)	Team Working, Professionalism and Patient Management 2 (Level I, 20 credits)	Patient Assessment 2 (Level I, 20 credits)	Disease Management 2 (Level I, 20 credits)
Year 3: Integrating knowledge skills and attitudes	Orofacial Biology 3 (Level H, 20 credits)	Healthy Living 3 *(a healthy mind)* (Level H, 20 credits)	Team Working, Professionalism and Patient Management 3 (Level H, 20 credits)	Patient Assessment 3 (Level I, 30 + 20 special credits)	Disease Management 3 (Level I, 30 + 20 special credits)
Year 4: Achieving Clinical Competence	Orofacial Biology 4 (Level H, 10 credits)	Team Working, Professionalism and Patient Management 4 (Level H, 20 credits)	Patient Assessment 4 (Level I, 30 + 20 special credits)	Disease Management 4 (Level H, 60 + 20 special credits)	
Year 5: Towards Professional Competence	Team Working, Professionalism and Patient Management 5 (Level H, 20 credits)	Preparation for Independent Practice (Level H, 60 + 20 special credits)	The Complex Patient (Level H, 40 credits)		

THE FIVE THEMES

Theme 1: Human Health and Disease.

Theme 2: The Mouth in Heath and Disease.

Theme 3: Clinical Competence, including patient management.

Theme 4: Communication Skills, Teamwork, ICT, and Reflective Practice.

Theme 5: Scientific Understanding and Thought.

DELIVERY METHOD

Coursework:	Year 1 – Special Study Module (SSM), Clinical Case Presentation.
	Year 2 – SSM, Clinical Case Presentation.
	Year 3 – CAT (Critically Appraised Topic) update, Clinical Case Presentation.
	Year 4 – CAT, Clinical Case Presentation.
	Year 5 – Clinical Audit project, Clinical Case Presentation.
EBL:	Interdisciplinary cases working on a two week cycle with 4 sessions per case.
Lecture/Symposium:	Interdisciplinary themed theatre events combining presentations, clinical case presentations and interactive exercises.
Technical/Laboratory:	Classes in skills classrooms; technical skills, clinical skills and operative skills.
Clinic:	Clinical experience in a range of environments (Dental Hospital, Community Clinic, Dental Practice) working in a dental team.

ASSESSMENTS

- The assessment at the end of each year consists of five components: Multiple choice question paper (MCQ); Objective Structured Clinical Examination (OSCE); Mandatory clinical core competencies; Coursework including case presentations with structured Vivas. Students must pass MCQ, OSCE and Clinical competencies. No compensation is given.

MCQ:	Multiple Choice Question paper, using best fit 1 from 4 format
OSCE:	Objective Structured Clinical Examination.
Clinical Competence:	Demonstration of clinical competence in the clinical environment.
Coursework:	Assessment of completed projects Viva on Case Presentation Reflective journal, Logbook and PADP.

6. STUDENT INDUCTION, SUPPORT AND DEVELOPMENT (in order to deliver the year learning outcomes)

All students who are to be admitted to the BDS Program are sent an Induction Booklet as soon as they confirm their place with us. This booklet, prepared and updated annually in conjunction with existing students, contains information designed to assist students in the transition to University life and the BDS Program.

The first week of The Mansoura Manchester Dental Program (MMDP) is the induction week. During this week students participate in a series of induction activities designed to introduce them to Enquiry-based learning in general and Problem-based learning in particular and the concept of Personal Academic Development Planning. During this induction process students will begin to work with their Tutor Team (two tutors per group of students) and their student mentors/PASS leaders. Similar induction sessions of no more than a day's duration will be held at the commencement of each year of the Program.

Support and development is focused around each student's Personal Academic Development Plan. Each student will have at least two timetabled meetings per academic year with their assigned Tutor Team. Prior to these meetings, students will be asked to provide a summary of their progress along with their reflections on this to their tutors. This material will provide the focus of these one to one meetings between the student and one of the members of the Tutor Team. The structure of these confidential meetings will also provide opportunities to discuss issues of a personal nature, which might be affecting the student's well-being and/or performance and/or fitness to practise. During the meeting the tutor will facilitate the development of an action plan by the student providing support and guidance as required including referral to University Support Services and, if required, the School of Dentistry's Senior Tutor. At the conclusion of each meeting the student and tutor will together decide if the student's progress is excellent, satisfactory or giving cause for concern. The outcome of this final assessment is recorded on a standard formed countersigned by both the student and tutor as a standard procedure and will be fed back to the Senior Tutors Office and incorporated into the students centrally held record of progress.

In summary, the Tutor Team's role is to:

i) ideally always be the initial point of contact for students requiring urgent support and guidance.

ii) facilitate students' reflections on their personal and academic development using the students' Personal Academic Development Plan as a focus for this reflection.

iii) facilitate the development of an action plan (see above).

iv) feedback information on the student's progress to the Senior Tutor's Office.

Currently the Senior Tutor has overall responsibility for the administration and quality assurance of the School's Student Support and Guidance system. This is primarily an administrative role and in TMDP will become the responsibility of the Undergraduate Administrative Team.

The Administrative Team will:

i) review the information fed back to the Senior Tutor's Office by the Tutor Teams, identifying those students who appear to be at particular risk of failure and liaising with the Senior Tutor and Tutor Team to ensure that appropriate action plans are in place to support the students involved.

ii) review the information fed back to the Senior Tutor's Office to ensure that all students have completed their regular scheduled meetings with the Tutor Team, and contact both student and Tutor Team to follow up any occasions when this does not occur.

In MMDP the Senior Tutor will:

i) provide expert support to the Tutor Team members in fulfilling their role by acting as both as a resource and a referral point.

ii) be responsible for the provision of support and guidance to students where doubts exist as to their fitness to practise either as result of health issues or behavioural problems.

iii) assist those students who are required to appear before the Progress Committee of the School of Dentistry in the preparation and presentation of their cases to that committee.

Students occasionally feel that the issues they face are of a particularly difficult or confidential nature and can bypass the Tutor Team by coming directly to the Senior Tutor. Under these circumstances the Senior Tutor will discuss with the student why they felt that they could not approach one or other of their Tutor Team. Permission will also be sought to feedback information to the Tutor Team should this be felt to be necessary and appropriate by the student involved and the Senior Tutor.

7. CURRICULUM MAP OF COURSE UNITS AGAINST INTENDED LEARNING OUTCOMES OF THE PROGRAMME

Course Unit Title and Code (including dissertations and other programme components)	Knowledge & Understanding	Intellectual Skills	Practical Skills	Transferable Skills & Personal Qualities

Code	Course Unit title	C/O	A1	A2	A3	A4	A5	A6	A7 A8	B1	B2	B3	B4	B5	B6	B7 B8	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11 D12
	Orofacial Biology 1	C	DA	DA	DA	DA	DA		DA			D							DA																DA		
	Healthy Living 1 *(a healthy body)*	C	DA	DA			DA	DA				D					DA			DA						DA											
	Team Working, Professionalism and Patient Management 1	C		DA			DA	DA				DA		DA			DA		DA	DA	DA	DA				DA	DA	DA		DA			DA		DA	DA
	Patient Assessment 1	C	DA	D	DA		DA		DA	DA	DA			DA			DA		DA		DA						DA		DA			DA			DA		
	Disease Management 1	C					DA		DA	DA											DA	DA	DA														
	Orofacial Biology 2	C	DA	DA	DA	DA	DA		DA			D														DA				DA	DA						
	Healthy Living 2 *(a healthy mouth)*	C		DA	DA	DA	DA	DA									DA			DA								DA		DA	DA						

THE UNIVERSITY OF MANCHESTER
Appendix 1: Undergraduate Programme Specification

Code	Course Unit title	C/O	A1	A2	A3	A4	A5	A6	A7 A8	B1	B2	B3	B4	B5	B6	B7 B8	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11 D12
	Team Working, Professionalism and Patient Management 2	C		DA			DA	DA				A		DA			DA			DA	DA	DA				DA	DA	DA	DA	DA			DA	DA	D			DA	DA
	Patient Assessment 2	C	DA		DA				DA	DA	DA	D		DA	DA			DA	DA		DA							DA	DA						D	DA		
	Disease Management 2	C					DA		DA	DA	DA			DA				DA	DA		DA	DA	DA	D					DA	DA					D			
	Orofacial Biology 3	C	DA		DA	DA	DA		DA			D																	DA									
	Healthy Living 3 *(a healthy mind)*	C						DA																		DA												
	Team Working, Professionalism and Patient Management 3	C			DA		DA		DA	DA	DA	DA	DA	DA	DA		DA		DA	DA	DA	DA				DA	DA	DA	DA	DA	DA	DA	DA	DA	DA			
	Patient Assessment 3	C	DA	DA	DA	DA	DA	DA	DA			D						DA	DA		DA		DA	DA	DA		DA	DA	DA	DA			DA	DA				
	Disease Management 3	C				DA	DA	DA	DA	DA			DA	DA				DA	DA	DA	DA	DA	DA	DA	DA				DA	DA			DA	DA				
	Orofacial Biology 4	C																								DA												
	Team Working, Professionalism and Patient Management 4	C						DA		DA		DA	DA	DA	DA	DA					DA					DA	DA			DA	DA	DA		DA	DA	DA	DA	DA	DA

THE UNIVERSITY OF MANCHESTER
Appendix 1: Undergraduate Programme Specification

Code	Course Unit title	C/O	A1	A2	A3	A4	A5	A6	A7	A8	B1	B2	B3	B4	B5	B6	B7	B8	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12
	Patient Assessment 4	C						D A		D A						D A	D A		D A	D A	D A		D A			D A	D A	D A				D A				D A	D A	D A	D A	D A	D A
	Disease Management 4	C						D A	D A	D A						D A	D A						D A	D A	D A	D A	D A		D A							D A	D A	D A	D A	D A	D A
	Team Working, Professionalism and Patient Management 5	C														D A	D A	D A		D A			D A	D A	D A	D A	D A	D A	D A	D A	D A	D A	D A	D A	D A	D A	D A	D A	D A	D A	D A
	Preparation for Independent Practice	C								D A								D A		D A	D A	D A	D A	D A	D A	D A	D A	D A	D A							D A	D A	D A	D A	D A	D A
	The Complex Patient	C			D A					D A						D A							D A					D A		D A	D A					D A				

Legend for cells

D = skills are taught or developed by students within this course unit
A = skills are assessed within this course unit

C = compulsory course unit
O = optional course un

8. PROGRESSION AND ASSESSMENT REGULATIONS

Assessment

- Assessment is the means by which a student's performance and achievement is measured.
- There are five sets of 'professional' examinations (First, Second, Third, Fourth and Final BDS Examinations) that must be passed before a student goes on to the next stage or graduates. These are held at the end of each respective year of study.
- The assessment at the end of each year in MMDP will comprise of five components: Multiple choice question paper (MCQ), Objective Structured Clinical Examination (OSCE), Mandatory Core Competencies, Case Presentations with structured Vivas and Coursework.
- The MCQ, Coursework and OSCE are numerical assessments, although the OSCE comprises of three components, each marked separately i.e. a knowledge section, skills section and a communication section.
- The Core competencies, Case Presentations and CPR assessment are not given numerical assessments.
- A student successfully completes a unit by demonstrating achievement of specified intended learning outcomes. For numerical assessment, marks are determined by the extent to which the student achieves the intended learning outcomes, such that in principle the full range from 0 to 100% is available. Where there is numerical assessment, the normal pass mark will be 50%. Where there is no numerical assessment the unit will be graded pass or fail.
- For the purposes of determining progression, the percentage mark that represents a compensatable fail will be not less than 40%. Where a unit is graded simply pass or fail there is no compensatable fail mark.

Progression

- The overall mark for a given year of a programme will be calculated as an average of the numerical marks awarded for that year. Units graded pass or fail are excluded from the calculation.
- The minimum overall pass mark will be 50% to progress from one year of the programme to the next, in which the student must:
    - reach the minimum pass mark overall in the numerical assessments;
    - obtain a pass grade in each of the pass/fail assessments.
- A student who fails to meet the above criteria to progress to a subsequent year of the programme will be reassessed in all units for which a pass mark was not attained. Such reassessment is designed to assess achievement of the same intended learning outcomes, but may not be of the same form as originally used. It will normally take place in time for the student to progress at the time originally intended. In order to progress, a student will be required to pass each unit reassessed. The student will then be deemed to have obtained the credits necessary for progression. However, the marks originally obtained will be used to calculate the overall mark for the year.
- A student who fails to progress to a subsequent year of the programme having failed after reassessment to reach the pass mark is given an opportunity to attend a meeting of the Dental Progress Committee at which their failure, possible extenuating circumstances, and the possibility of further attempts at an examination are discussed. Prior to the Progress Committee meeting students are invited to meet The Senior Tutor to discuss the circumstances that they plan to present to the Progress Committee. The Senior Tutor's role at the Progress Committee meeting is to support those students who wish to attend in person and to represent those students who do not wish to/are unable to attend.
- A student who reaches the minimum pass mark overall in the numerical assessments, but does not obtain a pass grade in the pass/fail assessments or reassessments at the end of Year 3 of the programme will be offered the opportunity to graduate with the degree of B.Med.Sc.(Dent) as a fall-back qualification.

Classification Criteria

- A student who obtains an overall mark of not less than 85%, and has obtained marks of not less than 60% in each year of the programme will be considered for the award of Bachelor in Dental Surgery (BDS) with Honours.

Mansoura Manchester Dental Program

Program Specification

2021/2022

Mansoura Manchester Dental Program
Program Specification
2021/2022

1. GENERAL INFORMATION

Code	Award	Program Title	Duration	Mode of study
	BDS	The Mansoura Manchester Dental Program – Bachelor in Dental Surgery	5 years	Full time

School	School of Dentistry
Faculty	Faculty of Dentistry Mansoura University
Awarding Institution	The University of Mansoura
Programme Accreditation	General Dental Council
Relevant QAA benchmark(s)	Dentistry

2. AIMS OF THE PROGRAMME(S)

The program aim to produce a graduate who:

01.	Has the knowledge to have a critical understanding of the complex issues involved in the scientific basis of dentistry;
02.	Can apply intellectual skills, knowledge, and behaviours in the field of dentistry;
03.	Can be reflective, committed to lifelong learning.

And to complete the BDS programme the aims are to graduate a professional and ethical dentist who can demonstrate the ability to:

04.	Take a patient-centred approach to clinical care within the dental team;
05.	Apply clinical skills, knowledge, and behaviours in independent dental practice.

3. INTENDED LEARNING OUTCOMES OF THE PROGRAMME(S)

	A. Knowledge & Understanding
	The student will be able to demonstrate:
A1	Knowledge of, and understanding of the relationship between, the normal structure and development of the human body, with particular reference to oral and peri-oral region.
A2	Understanding of the functions of the main systems of the human body, with particular reference to oral and peri-oral region.
A3	Understanding of the alterations to normal structure and function in disease, with particular reference to oral and peri-oral region.
A4	Understanding of the role of micro-organisms in man in health and disease, with particular reference to oral and dental disease.
A5	The ability to relate diet to health and disease, with particular reference to oral and dental disease.
A6	Understanding and the ability to discuss behavioural and social factors contributing to health and disease, with particular reference to oral and dental disease.
A7	Understanding of the impact of pharmaceutical agents on the functioning of the mouth.
And to complete the BDS Programme:	
A8	Understanding of the biological and technical demands of restoration of the diseased dentition.

Learning & Teaching Processes (to allow students to achieve intended learning outcomes)	**Assessment** (of intended learning outcomes)
• Problem-based learning (A1–A8) • Course work – SSM (A1-A7), CAT (A8), Case Presentations (A5–A8) • Lectures / Symposia (A1-A8)	• Multiple choice (MCQ) paper (A1-A8) • Short answer (SAQ) paper (A1–A8) • Assessment of submitted work – SSM (A1-A7), CAT (A8) • Viva – Case Presentation (A5-A8)

	B. Intellectual Skills
	The student will be able to demonstrate the ability to:
B1	Formulate relevant questions and gather the necessary information when faced with problems related to the practice of dentistry.
B2	Analyse and evaluate relevant information when faced with problems related to the practice of dentistry.
B3	Demonstrate an understanding of different opportunities for learning.
B4	Critically appraise alternative courses of action, including appropriate referral, from the analysis and evaluation of relevant information when faced with problems related to the practice of dentistry.
B5	Understand the concepts underlying evidence-based dentistry and evaluate published articles, understand the strength of evidence represented, and draw appropriate conclusion in the light of the body of the literature.
B6	Demonstrate a critical understanding of the complex issues involved in applying basic sciences to clinical dental practice
And to complete the BDS Programme:	
B7	Understand the limitations of their current knowledge and clinical competency.
B8	Demonstrate a knowledge of the components of clinical governance, including being able to explain and give examples of the clinical audit cycle in dental practice.

Learning & Teaching Processes	Assessment
• Problem-based learning (B1-B8) • Course work – SSM (B1-B3, B6) CAT (B1-B5), Case Presentations (B6), Governance project (B8) • Lectures / Symposia (B1-B8)	• MCQ (B1, B2, B4-B7) • SAQ (B1-B8) • Assessment of submitted work – SSM (B1, B2, B6), CAT (B1-B5), Governance Project (B8) • Viva - Case presentation (B6)

C. Practical Skills	
	The student will be able to demonstrate the ability to:
C1	Elicit, interpret and understand a history and undertake an extra- and intra-oral examination of both adult and child patients.
C2	Synthesise clinical findings to identify differential diagnoses and identify and interpret appropriate investigations.
C3	Have a critical understanding of the risks and benefits of the range of imaging techniques used in dentistry.
C4	Demonstrate the ability to effectively deliver health education to individuals and groups.
And to complete the BDS Program:	
C5	Handle dental instruments and materials safely and in accordance with current cross infection guidelines and work effectively and safely as part of the dental team.
C6	Competently perform the techniques required for administration of local anaesthesia, including regional, topical and infiltration techniques, to enable the effective delivery of dental treatment.
C7	Competently prepare teeth and place indirect and direct restorations in children and adults using contemporary dental materials.
C8	Competently use forceps, elevators and surgical procedures to remove permanent and primary teeth and roots, and perform soft tissues procedures.
C9	Understand and monitor, and when relevant undertake procedures to manage, developing and manifest problems related to the occlusion.
C10	Demonstrate the ability to prevent and manage medical emergencies that may occur in dental practice including the ability to perform cardiopulmonary resuscitation procedures.
C11	Apply anxiety management and sedation techniques when appropriate to enable the effective delivery of dental care to both children and adults.

Learning & Teaching Processes	Assessment
• Problem-based learning (C1-C11) • Course work – Case Presentations (C1-C4, C9) • Lectures / Symposia (C1–C11) • Technical / laboratory skills classes (C1, C5-C11) • Clinical experience (C1-C11)	• MCQ (C3-C5, C10) • SAQ (C3–C5, C9, C10) • OSCE (C1, C2, C5–C11) • Competency assessments (C1, C2, C5–C11) • Viva - Case presentation (C1-C4, C9, C11)

D. Transferable Skills and Personal Qualities

The student will be able to:

D1	Demonstrate the ability to put into practise the skills involved in active listening.
D2	Describe dental concepts in a way appropriate for both patients and colleagues to understand.
D3	Advance an argument, including use of the written and spoken word, in a professional and effective manner.
D4	Prepare and deliver a presentation on a chosen topic, showing critical analysis and synthesis of the material presented.
D5	Demonstrate the ability to use the Internet in a knowledgeable and critical way to gain information on contemporary dental issues, including the ability to carry out on-line searches of databases to resource assessment tasks.
D6	Communicate effectively and appropriately using e-mail, with knowledge of the limitations and restrictions on this form of communication.
D7	Demonstrate an understanding of how teams work and form and the decision making process and the effects of stress on the team and its individual members.
And to complete the BDS Program:	
D8	Empathise with adult and child patients, showing understanding of their concerns and desires both in communicating and in delivering treatment procedures.
D9	Demonstrate the ability to discharge the legal and professional responsibilities of a dentist with respect to patient management with regard to current guidance from the General Dental Council.
D10	Understand and display the characteristics of a leader in a dental team.
D11	Develop a PDP to demonstrate an understanding of one's own needs and how best to meet these as a practicing dentist.
D12	Demonstrate creativity and imagination in their approach to dentistry.

Learning & Teaching Processes	Assessment
• Problem-based learning (D1-D12) • Course work – SSM (D3, D5) CAT (D3–D5) Case Presentations (D2, D3, D5, D9) • Lectures / Symposia (D4, D5-D7, D9) • Clinical experience (D1, D7–D12) • PDP (D11)	• MCQ (D6, D9) • SAQ (D6, D7, D10) • OSCE (D1, D2, D5, D7-D9) • Assessment of submitted work – SSM (D3, D5) CAT (D3, D4, D5, D12) • Viva - Case presentation (D1, D2, D5, D9, D10, D12) • Reflective writing (D11, D12)

4. THE STRUCTURE OF THE PROGRAMME(S)

Program structure

Year 1 – Basic building blocks	**LEVEL**	**CREDITS**
Compulsory		
Unit 1 - Orofacial Biology 1	**C**	**60 (600 hours)**
Unit 2 - Healthy Living 1 *(a healthy body)*	**C**	**20 (200 hours)**
Unit 3 - Team Working, Professionalism and Patient Management 1	**C**	**20 (200 hours)**
Unit 4 - Patient Assessment 1	**C**	**10 (100 hours)**
Unit 5 - Disease Management 1	**C**	**10 (100 hours)**

Year 2 - Building your knowledge skills and attitudes

Compulsory		
Unit 1 - Orofacial Biology 2	**I**	**40 (400 hours)**
Unit 2 - Healthy Living 2 *(a healthy mouth)*	**C**	**20 (200 hours)**
Unit 3 - Team Working, Professionalism and Patient Management 2	**I**	**20 (200 hours)**
Unit 4 - Patient Assessment 2	**I**	**20 (200 hours)**
Unit 5 - Disease Management 2	**I**	**20 (200 hours)**

Year 3 - Integrating knowledge skills and attitudes

Compulsory		
Unit 1 - Orofacial Biology 3	**H**	**20 (200 hours)**
Unit 2 - Healthy Living 3 *(a healthy mind)*	**H**	**20 (200 hours)**
Unit 3 - Team Working, Professionalism and Patient Management 3	**H**	**20 (200 hours)**
Unit 4 - Patient Assessment 3	**I**	**30 + 20** [special credit] **(500 hours)**
Unit 5 - Disease Management 3	**I**	**30 + 20** [special credit] **(500 hours)**

Year 4 - Achieving Clinical Competence

Compulsory		
Unit 1 - Orofacial Biology 4	**H**	**10 (100 hours)**
Unit 2 - Team Working, Professionalism and Patient Management 4	**H**	**20 (200 hours)**
Unit 3 - Patient Assessment 4	**I**	**30 + 20** [special credit] **(500 hours)**
Unit 4 - Disease Management 4	**H**	**60 + 20** [special credit] **(800 hours)**

Year 5 - Towards Professional Competence

Compulsory		
Unit 1 - Team Working, Professionalism and Patient Management 5	**H**	**20 (200 hours)**
Unit 2 - Preparation for Independent Practice	**H**	**60 + 20** [special credit] **(800 hours)**
Unit 3 - The Complex Patient	**H**	**40 (400 hours)**

Key: Level C = Certificate
Level I = Intermediate
Level H = Honours

Learning at this level will reflect the ability to:

- Level C – develop a rigorous approach to the acquisition of a broad knowledge base; employ a range of specialised skills; evaluate information using it to plan and develop investigative strategies and to determine solutions to a variety of unpredictable problems; and operate in a range of varied and specific contexts, taking responsibility for the nature and quality of outputs.
- Level I – generate ideas through the analysis of concepts at an abstract level, with a command of specialised skills and the formulation of responses to well defined and abstract problems; analyse and evaluate information; exercise significant judgement across a broad range of functions; and accept responsibility for determining and achieving personal and/or group outcomes.
- Level H – critically review, consolidate and extend a systematic and coherent body of knowledge, utilising specialised skills across an area of study; critically evaluate new concepts and evidence from a range of sources; transfer and apply diagnostic and creative skills and exercise significant judgement in a range of situations; and accept accountability for determining and achieving personal and/or group outcomes.

5. CURRICULUM PROGRESSION: INTENDED LEARNING OUTCOMES FOR EACH YEAR

Year	**Intended learning outcomes** (All the course units are compulsory)
Year 1 to 5	**See Appendix 2 of the intended learning outcomes for each of Years 1-5, where year by year learning outcomes are shown to demonstrate progression.**

The attached table (Appendix 2) lists the intended learning outcomes (ILO) for each of the five years of the programme and outlines:

- Which of the 5 Themes the ILO contributes to;
- Which Unit(s) the ILO is delivered in;
- Method of delivery for each ILO;
- Method of assessment for each ILO.

PROGRAMME STRUCTURE

Year	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5
Year 1: Basic Building Blocks	Orofacial Biology 1 (Level C, 60 credits)	Healthy Living 1 *(a healthy body)* (Level C, 20 credits)	Team Working, Professionalism and Patient Management 1 (Level C, 20 credits)	Patient Assessment 1 (Level C, 10 credits)	Disease Management 1 (Level C, 10 credits)
Year 2: Building your knowledge skills and attitudes	Orofacial Biology 2 (Level I, 40 credits)	Healthy Living 2 *(a healthy mouth)* (Level C, 20 credits)	Team Working, Professionalism and Patient Management 2 (Level I, 20 credits)	Patient Assessment 2 (Level I, 20 credits)	Disease Management 2 (Level I, 20 credits)
Year 3: Integrating knowledge skills and attitudes	Orofacial Biology 3 (Level H, 20 credits)	Healthy Living 3 *(a healthy mind)* (Level H, 20 credits)	Team Working, Professionalism and Patient Management 3 (Level H, 20 credits)	Patient Assessment 3 (Level I, 30 + 20 special credits)	Disease Management 3 (Level I, 30 + 20 special credits)
Year 4: Achieving Clinical Competence	Orofacial Biology 4 (Level H, 10 credits)	Team Working, Professionalism and Patient Management 4 (Level H, 20 credits)	Patient Assessment 4 (Level I, 30 + 20 special credits)	Disease Management 4 (Level H, 60 + 20 special credits)	
Year 5: Towards Professional Competence	Team Working, Professionalism and Patient Management 5 (Level H, 20 credits)	Preparation for Independent Practice (Level H, 60 + 20 special credits)	The Complex Patient (Level H, 40 credits)		

THE FIVE THEMES

Theme 1: Human Health and Disease.

Theme 2: The Mouth in Heath and Disease.

Theme 3: Clinical Competence, including patient management.

Theme 4: Communication Skills, Teamwork, ICT, and Reflective Practice.

Theme 5: Scientific Understanding and Thought.

DELIVERY METHOD

Coursework:	Year 1 – Special Study Module (SSM), Clinical Case Presentation.
	Year 2 – SSM, Clinical Case Presentation.
	Year 3 – CAT (Critically Appraised Topic) update, Clinical Case Presentation.
	Year 4 – CAT, Clinical Case Presentation.
	Year 5 – Clinical Audit project, Clinical Case Presentation.
EBL:	Interdisciplinary cases working on a two week cycle with 4 sessions per case.
Lecture/Symposium:	Interdisciplinary themed theatre events combining presentations, clinical case presentations and interactive exercises.
Technical/Laboratory:	Classes in skills classrooms; technical skills, clinical skills and operative skills.
Clinic:	Clinical experience in a range of environments (Dental Hospital, Community Clinic, Dental Practice) working in a dental team.

ASSESSMENTS

- The assessment at the end of each year consists of five components: Multiple choice question paper (MCQ); Objective Structured Clinical Examination (OSCE); Mandatory clinical core competencies; Coursework including case presentations with structured Vivas. Students must pass MCQ, OSCE and Clinical competencies. No compensation is given.

MCQ:	Multiple Choice Question paper, using best fit 1 from 4 format
OSCE:	Objective Structured Clinical Examination.
Clinical Competence:	Demonstration of clinical competence in the clinical environment.
Coursework:	Assessment of completed projects Viva on Case Presentation Reflective journal, Logbook and PADP.

6. STUDENT INDUCTION, SUPPORT AND DEVELOPMENT (in order to deliver the year learning outcomes)

All students who are to be admitted to the BDS Program are sent an Induction Booklet as soon as they confirm their place with us. This booklet, prepared and updated annually in conjunction with existing students, contains information designed to assist students in the transition to University life and the BDS Program.

The first week of The Mansoura Manchester Dental Program (MMDP) is the induction week. During this week students participate in a series of induction activities designed to introduce them to Enquiry-based learning in general and Problem-based learning in particular and the concept of Personal Academic Development Planning. During this induction process students will begin to work with their Tutor Team (two tutors per group of students) and their student mentors/PASS leaders. Similar induction sessions of no more than a day's duration will be held at the commencement of each year of the Program.

Support and development is focused around each student's Personal Academic Development Plan. Each student will have at least two timetabled meetings per academic year with their assigned Tutor Team. Prior to these meetings, students will be asked to provide a summary of their progress along with their reflections on this to their tutors. This material will provide the focus of these one to one meetings between the student and one of the members of the Tutor Team. The structure of these confidential meetings will also provide opportunities to discuss issues of a personal nature, which might be affecting the student's well-being and/or performance and/or fitness to practise. During the meeting the tutor will facilitate the development of an action plan by the student providing support and guidance as required including referral to University Support Services and, if required, the School of Dentistry's Senior Tutor. At the conclusion of each meeting the student and tutor will together decide if the student's progress is excellent, satisfactory or giving cause for concern. The outcome of this final assessment is recorded on a standard formed countersigned by both the student and tutor as a standard procedure and will be fed back to the Senior Tutors Office and incorporated into the students centrally held record of progress.

In summary, the Tutor Team's role is to:

i) ideally always be the initial point of contact for students requiring urgent support and guidance.

ii) facilitate students' reflections on their personal and academic development using the students' Personal Academic Development Plan as a focus for this reflection.

iii) facilitate the development of an action plan (see above).

iv) feedback information on the student's progress to the Senior Tutor's Office.

Currently the Senior Tutor has overall responsibility for the administration and quality assurance of the School's Student Support and Guidance system. This is primarily an administrative role and in TMDP will become the responsibility of the Undergraduate Administrative Team.

The Administrative Team will:

i) review the information fed back to the Senior Tutor's Office by the Tutor Teams, identifying those students who appear to be at particular risk of failure and liaising with the Senior Tutor and Tutor Team to ensure that appropriate action plans are in place to support the students involved.

ii) review the information fed back to the Senior Tutor's Office to ensure that all students have completed their regular scheduled meetings with the Tutor Team, and contact both student and Tutor Team to follow up any occasions when this does not occur.

In MMDP the Senior Tutor will:

i) provide expert support to the Tutor Team members in fulfilling their role by acting as both as a resource and a referral point.

ii) be responsible for the provision of support and guidance to students where doubts exist as to their fitness to practise either as result of health issues or behavioural problems.

iii) assist those students who are required to appear before the Progress Committee of the School of Dentistry in the preparation and presentation of their cases to that committee.

Students occasionally feel that the issues they face are of a particularly difficult or confidential nature and can bypass the Tutor Team by coming directly to the Senior Tutor. Under these circumstances the Senior Tutor will discuss with the student why they felt that they could not approach one or other of their Tutor Team. Permission will also be sought to feedback information to the Tutor Team should this be felt to be necessary and appropriate by the student involved and the Senior Tutor.

7. CURRICULUM MAP OF COURSE UNITS AGAINST INTENDED LEARNING OUTCOMES OF THE PROGRAMME

Course Unit Title and Code (including dissertations and other programme components)	Knowledge & Understanding	Intellectual Skills	Practical Skills	Transferable Skills & Personal Qualities

Code	Course Unit title	C/O	A1	A2	A3	A4	A5	A6	A7 A8	B1	B2	B3	B4	B5	B6	B7 B8	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11 D12
	Orofacial Biology 1	C	DA	DA	DA	DA	DA		DA			D							DA																DA		
	Healthy Living 1 *(a healthy body)*	C	DA	DA			DA	DA				D					DA			DA						DA											
	Team Working, Professionalism and Patient Management 1	C		DA			DA	DA				DA		DA			DA		DA	DA	DA	DA				DA	DA	DA		DA			DA		DA	DA
	Patient Assessment 1	C	DA	D	DA		DA		DA	DA	DA			DA			DA		DA		DA						DA		DA			DA			DA		
	Disease Management 1	C					DA		DA	DA											DA	DA	DA														
	Orofacial Biology 2	C	DA	DA	DA	DA	DA		DA			D														DA				DA	DA						
	Healthy Living 2 *(a healthy mouth)*	C		DA	DA	DA	DA	DA									DA			DA								DA		DA	DA						

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Appendix 1: Undergraduate Programme Specification

Code	Course Unit title	C/O	A1	A2	A3	A4	A5	A6	A7 A8	B1	B2	B3	B4	B5	B6	B7 B8	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11 D12
	Team Working, Professionalism and Patient Management 2	C		DA			DA	DA				A		DA			DA			DA	DA	DA				DA	DA	DA	DA	DA			DA	DA	D			DA	DA
	Patient Assessment 2	C	DA		DA				DA	DA	DA	D		DA	DA			DA	DA		DA							DA	DA						D	DA		
	Disease Management 2	C					DA		DA	DA	DA			DA				DA	DA		DA	DA	DA	D					DA	DA					D			
	Orofacial Biology 3	C	DA		DA	DA	DA		DA			D																	DA									
	Healthy Living 3 *(a healthy mind)*	C						DA																		DA												
	Team Working, Professionalism and Patient Management 3	C			DA		DA		DA	DA	DA	DA	DA	DA	DA		DA		DA	DA	DA	DA				DA	DA	DA	DA	DA	DA	DA	DA	DA	DA			
	Patient Assessment 3	C	DA	DA	DA	DA	DA	DA	DA			D						DA	DA		DA		DA	DA	DA		DA	DA	DA	DA			DA	DA				
	Disease Management 3	C				DA	DA	DA	DA	DA			DA	DA				DA	DA	DA	DA	DA	DA	DA	DA				DA	DA			DA	DA				
	Orofacial Biology 4	C																								DA												
	Team Working, Professionalism and Patient Management 4	C						DA		DA		DA	DA	DA	DA	DA					DA					DA	DA			DA	DA	DA		DA	DA	DA	DA	DA	DA

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Appendix 1: Undergraduate Programme Specification

Code	Course Unit title	C/O	A1	A2	A3	A4	A5	A6	A7	A8	B1	B2	B3	B4	B5	B6	B7	B8	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12
	Patient Assessment 4	C						D A		D A						D A	D A		D A	D A	D A		D A			D A	D A	D A				D A				D A	D A	D A	D A	D A	D A
	Disease Management 4	C						D A	D A	D A						D A	D A						D A	D A	D A	D A	D A		D A							D A	D A	D A	D A	D A	D A
	Team Working, Professionalism and Patient Management 5	C														D A	D A	D A		D A			D A	D A	D A	D A	D A	D A	D A	D A	D A	D A	D A	D A	D A	D A	D A	D A	D A	D A	D A
	Preparation for Independent Practice	C								D A								D A		D A	D A	D A	D A	D A	D A	D A	D A	D A	D A							D A	D A	D A	D A	D A	D A
	The Complex Patient	C			D A					D A						D A							D A					D A		D A	D A					D A				

Legend for cells

D = skills are taught or developed by students within this course unit
A = skills are assessed within this course unit

C = compulsory course unit
O = optional course un

8. PROGRESSION AND ASSESSMENT REGULATIONS

Assessment

- Assessment is the means by which a student's performance and achievement is measured.
- There are five sets of 'professional' examinations (First, Second, Third, Fourth and Final BDS Examinations) that must be passed before a student goes on to the next stage or graduates. These are held at the end of each respective year of study.
- The assessment at the end of each year in MMDP will comprise of five components: Multiple choice question paper (MCQ), Objective Structured Clinical Examination (OSCE), Mandatory Core Competencies, Case Presentations with structured Vivas and Coursework.
- The MCQ, Coursework and OSCE are numerical assessments, although the OSCE comprises of three components, each marked separately i.e. a knowledge section, skills section and a communication section.
- The Core competencies, Case Presentations and CPR assessment are not given numerical assessments.
- A student successfully completes a unit by demonstrating achievement of specified intended learning outcomes. For numerical assessment, marks are determined by the extent to which the student achieves the intended learning outcomes, such that in principle the full range from 0 to 100% is available. Where there is numerical assessment, the normal pass mark will be 50%. Where there is no numerical assessment the unit will be graded pass or fail.
- For the purposes of determining progression, the percentage mark that represents a compensatable fail will be not less than 40%. Where a unit is graded simply pass or fail there is no compensatable fail mark.

Progression

- The overall mark for a given year of a programme will be calculated as an average of the numerical marks awarded for that year. Units graded pass or fail are excluded from the calculation.
- The minimum overall pass mark will be 50% to progress from one year of the programme to the next, in which the student must:
    - reach the minimum pass mark overall in the numerical assessments;
    - obtain a pass grade in each of the pass/fail assessments.
- A student who fails to meet the above criteria to progress to a subsequent year of the programme will be reassessed in all units for which a pass mark was not attained. Such reassessment is designed to assess achievement of the same intended learning outcomes, but may not be of the same form as originally used. It will normally take place in time for the student to progress at the time originally intended. In order to progress, a student will be required to pass each unit reassessed. The student will then be deemed to have obtained the credits necessary for progression. However, the marks originally obtained will be used to calculate the overall mark for the year.
- A student who fails to progress to a subsequent year of the programme having failed after reassessment to reach the pass mark is given an opportunity to attend a meeting of the Dental Progress Committee at which their failure, possible extenuating circumstances, and the possibility of further attempts at an examination are discussed. Prior to the Progress Committee meeting students are invited to meet The Senior Tutor to discuss the circumstances that they plan to present to the Progress Committee. The Senior Tutor's role at the Progress Committee meeting is to support those students who wish to attend in person and to represent those students who do not wish to/are unable to attend.
- A student who reaches the minimum pass mark overall in the numerical assessments, but does not obtain a pass grade in the pass/fail assessments or reassessments at the end of Year 3 of the programme will be offered the opportunity to graduate with the degree of B.Med.Sc.(Dent) as a fall-back qualification.

Classification Criteria

- A student who obtains an overall mark of not less than 85%, and has obtained marks of not less than 60% in each year of the programme will be considered for the award of Bachelor in Dental Surgery (BDS) with Honours.

Mansoura Manchester Dental Program

Year specification

1st year

2024/2025

Year Specification

Program Name	**Mansoura Manchester Dental Program**
Program	Bachelor of Dental science-MMDP
Year Title	**1st year MMDP**
Year Code	**MMDPY1**
Academic year	2024-2025

1. Course Identification

Course Title	**1st year MMDP**
Course Code	MMDPY1
Program	Bachelor of Dental science-MMDP
Number of hours	1206 /national hours

2. Course Description & Objectives

• **Course Description**	The scientific content with different disciplines provides the students with essential and high-level of knowledge, communication skills and professionalism.
• **Course Objective**	By the end of this course students will be able to; 1. Understand the complex issues involved in the scientific basis of dentistry. 2. Apply intellectual skills, knowledge, and behavior in the field of dentistry. 3. Reflective, committed to lifelong learning 4. Lead a team and manage any conflict within the team. 5. Deal professionally with staff and professional colleagues.

3. Intended Learning Outcomes (ILOS) of the course

a	**Knowledge and understanding**
a.1	Demonstrate knowledge of the anatomical structure of the head & neck, thorax and abdomen and understanding of the relationship of this to function
a.2	Demonstrate knowledge of the anatomical structure of the mouth and teeth and understanding of the relationship of this to function.
a.3	Demonstrate the knowledge to define levels of organization within the human body.
a.4	Demonstrate the ability to identify how systems are regulated and integrated to adopt a holistic approach to the practice of dentistry
a.5	Demonstrate knowledge of the role of saliva in maintaining dental health.
a.6	Demonstrate the knowledge to describe the basic mechanisms underlying dental caries, periodontal disease and non-bacterial tooth surface loss.
a.7	Demonstrate knowledge of the properties of dental materials that the student will use at this stage of training.
b	**Intellectual skills**
b.1	demonstrate the ability to identify how systems are regulated and integrated to adopt a holistic approach to the practice of dentistry
b.2	demonstrate the ability to recognize how acute and chronic failure of nutritional and digestion systems may present in dental practice.
b.3	demonstrate the understanding to explain the need for nutrients and the concept of food as an energy store.
b.4	demonstrate the knowledge to describe causes of malnutrition and common deficiency diseases that may present to the dentist
b.5	demonstrate the understanding to explain the relationship between obesity and food intake.
b.6	demonstrate an understanding of the processes involved in speech mastication and deglutition
b.7	demonstrate the knowledge to define the mechanisms underlying diseases of the human body at a basic level.
b.8	demonstrate the ability to recognize how common diseases are manifested and how they may present in dental practice.
b.9	demonstrate a basic understanding of the pathology of caries, periodontal disease, & tooth surface loss.
b.10	demonstrate an appreciation of the nature and variety of common micro-organisms that interact with the human body in health and how these interactions may be prevented.
b.11	demonstrate the ability to describe the impact of common micro-organisms on the oral cavity and digestive system.
b.12	demonstrate the ability to identify the nature and variety of common micro-organisms that interact with the mouth in health and disease.
b.13	demonstrate the understanding to explain the actions of anti- microbial agents commonly prescribed by dentists.
b.14	demonstrate the knowledge to describe the actions and methods of administration of common pharmaceutical agents likely to be encountered in patients attending for dental treatment.
b.15	demonstrate the ability to explain how common anti- microbial agents that a dentist can prescribe are effective in managing dental disease

b.16	demonstrate the ability to identify effects that pharmaceutical agents used at this stage of training to treat dental disease may have on the main systems in the human body including drug interactions.
b.17	demonstrate the knowledge to describe the basic mechanisms underlying dental caries, periodontal disease, and non-bacterial tooth surface loss.
b.18	demonstrate the understanding to explain the relationship between dental disease and dietary intake and undertake simple caries risk assessment.
b.19	demonstrate the skills required to remove supra gingival plaque on each other.
c	**Professional and Practical skills**
c.1	demonstrate the understanding to explain the actions of anti- microbial agents commonly prescribed by dentists.
c.2	demonstrate the knowledge to identify common pharmaceutical agents affecting the digestive systems in the human body.
c.3	demonstrate the knowledge to describe the actions and methods of administration of common pharmaceutical agents likely to be encountered in patients attending for dental treatment.
c.4	demonstrate the ability to explain how common anti-microbial agents that a dentist can prescribe are effective in managing dental disease
c.5	demonstrate the ability to identify effects that pharmaceutical agents used at this stage of training to treat dental disease may have on the main systems in the human body including drug interactions.
c.6	demonstrate understanding of the fundamental ethical and legal principles of practicing dentistry.
c.7	demonstrate the ability to recognize supra gingival plaque.
c.8	demonstrate the ability to perform simple plaque scoring.
c.9	demonstrate an understanding of how common dental conditions may be prevented: caries, periodontal disease, & tooth surface loss.
c.10	demonstrate the ability to handle dental instruments and materials used at this stage of their training safely and in accordance with current cross infection guidelines.
c.11	demonstrate an understanding of the concept of the dental team to allow them to work together with colleagues including Dental Care Professionals
c.12	demonstrate the ability to chart the presence or absence of teeth
c.13	demonstrate an understanding of the need to elicit a simple dental and social history in a dental context.
c.14	demonstrate the ability to undertake a basic intra oral and extra oral examination
c.15	demonstrate the skills to prepare each other, comfortably and safely, in readiness for relevant simple dental procedures and demonstrate the rudiments of assisted operating
c.16	demonstrate the skills required to place simple direct restorations in simulated casts in harmony with oral health.
c.17	demonstrate a basic understanding of the role of imaging techniques used in dentistry
d	**General and transferable skills**
d.1	demonstrate the ability to recognize and understand the impact of lifestyle on health.
d.2	demonstrate the ability to discuss health promotion and its impact on dentistry.
d.3	demonstrate understanding of the fundamental ethical and legal principles of practicing dentistry.

d.4	demonstrate a basic understanding of the importance of the effects of social context on health
d.5	demonstrate the ability to discharge the legal and professional responsibilities of a dentist with respect to patient care including the provisions of Ionizing Radiation (Medical Exposure)
d.6	demonstrate the understanding to explain the relationship between dental disease and dietary intake and undertake simple caries risk assessment.
d.7	demonstrate an understanding of how common dental conditions may be prevented: caries, periodontal disease, & tooth surface loss.
d.8	demonstrate the ability to perform basic life support procedures in a simulated emergency.
d.9	demonstrate the ability to apply the skills of active listening, including demonstrating an understanding of both verbal and nonverbal communication in a dental environment
d.10	demonstrate the differences between a population and a sample and the relevance in dental research
d.11	demonstrate the ability to explain the basic concepts of epidemiology and prevalence in the context of oral disease
d.12	demonstrate a basic understanding of the hierarchy of evidence and study designs commonly used in dentistry
d.13	demonstrate the ability to perform basic searches of electronic databases to find information on basic dental issues.
d.14	demonstrate the ability to write in a scientific manner, including referencing, at a basic level to produce a clinical case report
d.15	demonstrate a basic understanding of statistical methods commonly used in the dental literature
d.16	demonstrate an understanding of the potential contribution of psychology to dentistry
d.17	demonstrate an understanding of the relevant theories of health related behavior and behavior change and communicate effectively using those theories in a dental setting.
d.18	demonstrate an understanding of the concept of the dental team to allow them to work together with colleagues including Dental Care Professionals
d.19	demonstrate the ability to chart the presence or absence of teeth.
d.20	demonstrate an understanding of the need to elicit a simple dental and social history in a dental context.
d.21	demonstrate the skills to prepare each other, comfortably and safely, in readiness for relevant simple dental procedures and demonstrate the rudiments of assisted operating
d.22	demonstrate that they have begun to understand the relevance of reflective learning and practice to a career in dentistry
d.23	demonstrate how the concept of biological variation is applicable to the practicing dentist.
d.24	demonstrate an understanding of some of the main concepts of IT at a general level including knowledge and competence in using the basic common functions of a personal computer and its operating systems
d.25	demonstrate a basic understanding of some of the concepts and terms associated with using the Internet, and to appreciate some of the security considerations.
d.26	demonstrate the ability to accomplish common Web search tasks using a Web browsing application and available engines tools, to bookmark Web sites and to print Web pages and search outputs and navigate within and complete Web based forms.

d.27	demonstrate a basic understanding of the concepts of electronic mail (e-mail) including some of the security considerations associated with using e-mail.
d.28	demonstrate competence in using e-mail software to send and receive messages, to attach files to mail message and to organize and manage message folders/directories within e-mail messages.

4. Course Content

Course Contents	Symposia	Seminars
General anatomy	Oral cavity, maxilla and mandible anatomy	
	Tongue, salivary glands, muscles of mastication anatomy	
	Blood and nerve supply oral cavity	
	Nasopharynx, laryngopharynx facial nerve, glossopharyngeal, vagus and hypoglossal nerves	
	Digestive system anatomy, nerve and blood supply	
	Anatomy, innervation and blood supply of the pancreas and small intestine	
	Anatomy, innervation and blood supply of the large intestine	
	Anatomy, innervations and blood supply of the liver& kidney	
Dental anatomy	tooth morphology, identify teeth according to structure, Differentiation between anatomic crown and root from a clinical crown and root, tooth surface identification, numbering systems	
	Anatomical landmarks	
	Tooth morphology descriptions	
General Histology	Identify hard and soft tissues	
	cell's function	
	Muscles histology	
	digestive tract histology	
	pancreas and small intestine histology	

	large intestine histology	
	Liver histology	
Biochemistry	composition and structure of DNA	
	functions of the liver and food is metabolized	
	Obesity, food intake, carbohydrate and fat metabolism	
Oral histology	Tooth, location, mineral content and function	
	oral mucosa histology, Periodontium structure	
	Temporomandibular joint	
	microscopic arrangement of the major and minor salivary glands	
Oral Surgery	failures of mastication	
Microbiology	common micro-organism on the oral cavity	
	innate immune system	
	Antibody structure and classes	
	microbes colonies	
	infectious diseases	
	antigen: antibody specificity	
Physiology	mechanisms involved in mastication	
	Salivation (mechanism	
	swallowing	
	acid production in the stomach	
	Digestion , absorption	
	functions of the large intestine	
	hormones	
	Kidney and excretion physiology	
Dental Biomaterials	Impression materials	
	Tooth colored esthetic material	
	Difficult oral environment	

Radiology	Radiation in dentistry	
	Radiation Protection	
General pathology	cell degeneration, apoptosis and necrosis	
	healing, regeneration, and repair mechanisms	
Oral Pathology	Erosion, plaque, caries, and tooth surface loss (bacterial and non-bacterial).	
	Sequala of dental caries	
Pharmacology	Foundation lectures	
	Gastric acid secretion	
	Antibiotics (chemotherapy)	
	Drug receptors	
	Diuretics	
Phoniatrics	anatomical arrangement of the structures involved in speech	
Oral medicine & periodontology	The importance of extra and intra oral examination	
	Dental plaque and calculus	
	Xerostomia	
	Mouth ulcers	
Dental public health	Nutrition and caries	
	Infection control	
	Fluoride & Caries Prevention	
General medicine	Diarrhea	
	Liver Diseases	
	Diabetes mellitus	
	Dialysis and chronic renal disease	
Epidemiology	Descriptive methods of statistical analysis	

- **English language and medical terminology**
- **Lectures for acquiring skills and not involved in assessment exams:**

Ethics
Professionalism
Scientific writing
Stress in dentistry
IT

Clinical Contents	Clinical Topics
Periodontology	1. Introduction to clinical skills 2. History & Examination 3. Oral hygiene & BPE 4. Gingival & plaque index & scores 5. Supra-gingival scaling 6. Instruments 7. Probing, furcation, mobility & recession 8. Mechanical scalers 9. Simulation of first patient visit
Dental Public Health	1. Diet, risk assessment & prevention planning 2. Fluoride varnish Application 3. Fissure sealant 4. Health & safety revision 5. Helping patients change their behavior
Conservative Dentistry	1. Sensibility testing 2. Rubber dam 3. Handed working instruments 4. Minimal composite restoration 5. Polishing & non carious tooth tissue loss 6. Anterior approximal lesions 7. Finishing & polishing composite restoration
Removable Prosthodontics	1. Impression making 2. Simple examination of occlusion 3. Classification of the edentulous area 4. Partial denture design & surveying

Course work content	Symposia	Discipline

EBL (11 cases)	General Anatomy General histology Dental anatomy Oral histology Physiology Pharmacology Microbiology Dental materials X ray General medicine Oral medicine & periodontology Oral pathology General pathology Oral surgery Dental public health Biochemistry Phonetics	
KPT (4 tests)		Periodontology Dental Public Health Conservative Dentistry Removable Prosthodontics
Anatomy spotter		General anatomy General histology Oral histology Dental anatomy
Poster presentation	Poster presentation guidelines	

5. Contact Hours

No	Activity	Contact Hours
1	**Lecture**	8hrs/week
2	**Laboratory/clinical (Practical)**	14 hrs/week
3	**EBL**	3 hrs/week
4	**Self- learning/ material collection**	4 hrs/week
4	**Office hours**	2hrs/week
	Total	30hrs/week

6. Teaching and learning methods

(Alignment of Teaching Methods with ILOS)

No	Method	Basic knowledge	Intellectual Skills	Professional Skills	General Skills
1	Lectures/Symposia	√	√		
2	EBL/Problem based learning	√	√	√	√
3	Clinical / practical sessions	√		√	√
4	Seminars	√	√	√	√

7. Teaching and learning methods of disables

None

8. Student Assessments

8.1. Assessment Methods

(Alignment of Assessment Methods with ILOS)

No	Method	Basic knowledge	Intellectual Skills	Professional Skills	General Skills
1	EBL	√		√	√
2	Anatomy spotter (formative& summative)	√	√		
3	Poster presentation	√		√	√
4	Key Procedure Test (KPT) as an Ongoing clinical assessment	√	√	√	
5	MCQ Exam (Formative and Summative)	√	√		
6	SAP Exam (Formative and Summative)	√	√		
7	English language and medical terminology	Pass or fail			

8.2. Assessment length, degree, and proportion of total Assessment Score

No	Method	Week
1	EBL	At 2nd session of EBL cases (12 cases during the year)
2	Formative exam (Anatomy spotter, MCQ, SAP)	At the end of 1st semester
3	Poster presentation	During 2nd Semester
	Anatomy spotter	During 2nd semester
	Key Procedure Test (KPT) as an Ongoing clinical assessment	Continuous assessment during the year
	Summative exams (MCQ, SAP)	At the end of the year
	English language and medical terminology	At the end of the year
No	**Method**	**Weight**
1	EBL	132\592=22.29 %
2	Poster	40\592= 0.067%
3	Anatomy spotter	60/592= 10.1%
4	MCQ	180\592= 30.4%
5	SAP	180\592= 30.4%
	KPT	Pass or fail
Total		100%

9. Learning Resources and Facilities

9.1. Learning Resources

Required Textbooks	1. Human anatomy : color atlas and text book, coasling J A C 2008 2. Ten Cate's oral Ten Cate's oral histology: development, structure, and function- Nanci, Antonio, Ten Cate, A. R. c2013 3. Principles of anatomy & physiology: Volume 1: Organization, support and movemenet, and control systems of the uman body - Tortora, Gerard J,.Derrickson, Bryan c2011 4. Wheeler's Dental Anatomy, Physiology, 9th edition, Stanley J. Nelson,2010
Other Learning Materials	

9.2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	- Classroom / EBL rooms/ Clinics / Labs

Item	Resources
Technology Resources (AV, data show, Smart Screen, software, etc.)	- PCs + Data Show + Smart Screen
Other Resources (Specify, e.g., if specific laboratory equipment is required, list requirements or attach a list)	- Internet Connection

10. Matrix of course ILOS and the course content

Items	Details	Basic knowledge	Intellectual Skills	Professional Skills	General Skills
Year Contents	General anatomy	a.1,a.2,a.3	b.1		
	General histology	a.4	b.1		
	physiology	a.3	b.3, b.6, b.7		
	Microbiology	a.5,a.6	b.9,b.10,b.11, b.12,b.13		
	Pharmacology		b.13, b.14,b.15	c.3	
	General pathology	a.4	b.1, b.2		
	Dental Biomaterials	a.7		c.11	
	Oral surgery	a.2	b.15	c.1	
	Periodontology	a.2,a.5,a.6	b.2,b.5,b.6,b.4, b.9, b.11,b.19	c.1,c.15,c.8	
	phoniatrics		b.6		
	Biochemistry		b.3,b.5		
	Oral histology	a.2,a.3			d.23
	Dental anatomy	a.2			d.19
	G pathology		b.4,b.8		
	O pathology	a.7	b.17		
	Epidemiology				d.10,d.11, d.12,d.15
	IT				d.14,d.24, d.26,d.27
	G medicine				d.1,d.4
	Preventive dentistry	a.5,b.2,b.4, b.7,b.18			d.2
	Radiology			c.6,c.7c.18	d.5

Teaching and Learning Methods	Lectures/Symposia	a.1, a.2	b.1, b.2, b.3		
	EBL/Problem based learning	a1,a2, a3,	b1,b2,b4, b10	c1,c2,c 4	
	Lab practice	a.2		c.8,c.9	
	Clinical Sessions			c16,c9 ,c8	d5,d21,d18,d9
Activities and Sources of Teaching and Learning	EBL Sessions	a.1, a.2	b.1	c.6, c.7	d.4
	Poster Presentation			c.12	d.18
Student Assessment	EBL	a.1, a.2	b.1		d.4
	Poster presentation			c.12	d.18
	Anatomy spotter	a.1, a.2			
	MCQ Exam (Formative and Summative)	a.1, a.2	b.3,b.2,b.7, b.10		
	SAP Exam (Formative and Summative)			c.19, c.17,c.13	d.19
	KPT			c.19, c.17,c.16, c.11	

Matrix of Year course ILOs and program ILOs:

Course ILOs	Program ILOs								
	A. Knowledge and understanding								
	A. 1	A. 2	A. 3	A. 4	A. 5	A. 6	A. 7	A. 8	
a.1	√								
a.2		√							
a.3	√								
a.4		√							
a.5		√							
a.6				√	√				
a.7								√	
B. Intellectual skills									
	B. 1	B. 2	B. 3	B. 4	B. 5	B. 6	B. 7	B. 8	
b.1	√								
b.2		√							
b.3	√								
b.4									

b.5	√								
b.6	√								
b.7		√							
b.8		√							
b.9	√	√							
b.10	√	√							
b.11	√	√							
b.12	√	√							
b.13			√	√					
b.14				√	√				
b.15			√		√				
b.16						√			
b.17					√	√			
b.18	√	√				√			
b.19						√			

c. Professional and practical skills

	C.1	C.2	C.3	C.4	C.5	C.6	C.7	C.8	C.9	C.10	C.11	
c.1										√	√	
c.2		√								√		

c.3										√	√	
c.4										√		
c.5										√		
c.6				√								
c.7	√	√										
c.8	√	√										
c.9									√			
c.10					√							
c.11				√								
c.12	√											
c.13	√											
c.14	√											
c.15		√		√								
c.16							√					
c.17			√									

d. General and transferable skills

	D.1	D.2	D.3	D.4	D.5	D.6	D.7	D.8	D.9	D.10	D.11	D.12	
d.1	√												

d.2	√	√											
d.3		√	√										
d.4											√		
d.5									√				
d.6		√									√		
d.7								√	√	√			
d.8									√				
d.9	√												
d.10		√											
d.11		√						√					
d.12											√	√	
d.13					√								
d.14			√	√									
d.15				√									
d.16								√	√		√		
d.17								√			√		
d.18											√		

d.19		√		√									
d.20		√	√	√									
d.21	√	√											
d.22	√	√											
d.23	√	√											
d.24					√								
d.25					√								
d.26					√								
d.27					√	√							
d.28					√	√							

11. Student Academic Counseling and Support

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

Year Coordinator(s)

Assist. Prof. Dr**/ Samah Khaled**

Assist. Prof. Dr**/ Sally Elsayed**

Dr**/ Elham Hassan**

Year Director

Ass.Prof. Dr**/ Samah Khaled**

Program Director

Prof. Dr/ Radwa Emera

Mansoura Manchester Dental Program

Year specification

1st year

2023/2024

Year Specification

Program Name	**Mansoura Manchester Dental Program**
Program	Bachelor of Dental science-MMDP
Year Title	**1st year MMDP**
Year Code	**MMDPY1**
Academic year	2023-2024

1. Course Identification

Course Title	**1st year MMDP**
Course Code	MMDPY1
Program	Bachelor of Dental science-MMDP
Number of hours	1206 /national hours

2. Course Description & Objectives

• **Course Description**	The scientific content with different disciplines provides the students with essential and high-level of knowledge, communication skills and professionalism.
• **Course Objective**	By the end of this course students will be able to; 1. Understand the complex issues involved in the scientific basis of dentistry. 2. Apply intellectual skills, knowledge, and behavior in the field of dentistry. 3. Reflective, committed to lifelong learning 4. Lead a team and manage any conflict within the team. 5. Deal professionally with staff and professional colleagues.

3. Intended Learning Outcomes (ILOS) of the course

a	**Knowledge and understanding**
a.1	Demonstrate knowledge of the anatomical structure of the head & neck, thorax and abdomen and understanding of the relationship of this to function
a.2	Demonstrate knowledge of the anatomical structure of the mouth and teeth and understanding of the relationship of this to function.
a.3	Demonstrate the knowledge to define levels of organization within the human body.
a.4	Demonstrate the ability to identify how systems are regulated and integrated to adopt a holistic approach to the practice of dentistry
a.5	Demonstrate knowledge of the role of saliva in maintaining dental health.
a.6	Demonstrate the knowledge to describe the basic mechanisms underlying dental caries, periodontal disease and non-bacterial tooth surface loss.
a.7	Demonstrate knowledge of the properties of dental materials that the student will use at this stage of training.
b	**Intellectual skills**
b.1	demonstrate the ability to identify how systems are regulated and integrated to adopt a holistic approach to the practice of dentistry
b.2	demonstrate the ability to recognize how acute and chronic failure of nutritional and digestion systems may present in dental practice.
b.3	demonstrate the understanding to explain the need for nutrients and the concept of food as an energy store.
b.4	demonstrate the knowledge to describe causes of malnutrition and common deficiency diseases that may present to the dentist
b.5	demonstrate the understanding to explain the relationship between obesity and food intake.
b.6	demonstrate an understanding of the processes involved in speech mastication and deglutition
b.7	demonstrate the knowledge to define the mechanisms underlying diseases of the human body at a basic level.
b.8	demonstrate the ability to recognize how common diseases are manifested and how they may present in dental practice.
b.9	demonstrate a basic understanding of the pathology of caries, periodontal disease, & tooth surface loss.
b.10	demonstrate an appreciation of the nature and variety of common micro-organisms that interact with the human body in health and how these interactions may be prevented.
b.11	demonstrate the ability to describe the impact of common micro-organisms on the oral cavity and digestive system.
b.12	demonstrate the ability to identify the nature and variety of common micro-organisms that interact with the mouth in health and disease.
b.13	demonstrate the understanding to explain the actions of anti- microbial agents commonly prescribed by dentists.
b.14	demonstrate the knowledge to describe the actions and methods of administration of common pharmaceutical agents likely to be encountered in patients attending for dental treatment.
b.15	demonstrate the ability to explain how common anti- microbial agents that a dentist can prescribe are effective in managing dental disease

b.16	demonstrate the ability to identify effects that pharmaceutical agents used at this stage of training to treat dental disease may have on the main systems in the human body including drug interactions.
b.17	demonstrate the knowledge to describe the basic mechanisms underlying dental caries, periodontal disease, and non-bacterial tooth surface loss.
b.18	demonstrate the understanding to explain the relationship between dental disease and dietary intake and undertake simple caries risk assessment.
b.19	demonstrate the skills required to remove supra gingival plaque on each other.
c	**Professional and Practical skills**
c.1	demonstrate the understanding to explain the actions of anti- microbial agents commonly prescribed by dentists.
c.2	demonstrate the knowledge to identify common pharmaceutical agents affecting the digestive systems in the human body.
c.3	demonstrate the knowledge to describe the actions and methods of administration of common pharmaceutical agents likely to be encountered in patients attending for dental treatment.
c.4	demonstrate the ability to explain how common anti-microbial agents that a dentist can prescribe are effective in managing dental disease
c.5	demonstrate the ability to identify effects that pharmaceutical agents used at this stage of training to treat dental disease may have on the main systems in the human body including drug interactions.
c.6	demonstrate understanding of the fundamental ethical and legal principles of practicing dentistry.
c.7	demonstrate the ability to recognize supra gingival plaque.
c.8	demonstrate the ability to perform simple plaque scoring.
c.9	demonstrate an understanding of how common dental conditions may be prevented: caries, periodontal disease, & tooth surface loss.
c.10	demonstrate the ability to handle dental instruments and materials used at this stage of their training safely and in accordance with current cross infection guidelines.
c.11	demonstrate an understanding of the concept of the dental team to allow them to work together with colleagues including Dental Care Professionals
c.12	demonstrate the ability to chart the presence or absence of teeth
c.13	demonstrate an understanding of the need to elicit a simple dental and social history in a dental context.
c.14	demonstrate the ability to undertake a basic intra oral and extra oral examination
c.15	demonstrate the skills to prepare each other, comfortably and safely, in readiness for relevant simple dental procedures and demonstrate the rudiments of assisted operating
c.16	demonstrate the skills required to place simple direct restorations in simulated casts in harmony with oral health.
c.17	demonstrate a basic understanding of the role of imaging techniques used in dentistry
d	**General and transferable skills**
d.1	demonstrate the ability to recognize and understand the impact of lifestyle on health.
d.2	demonstrate the ability to discuss health promotion and its impact on dentistry.
d.3	demonstrate understanding of the fundamental ethical and legal principles of practicing dentistry.

d.4	demonstrate a basic understanding of the importance of the effects of social context on health
d.5	demonstrate the ability to discharge the legal and professional responsibilities of a dentist with respect to patient care including the provisions of Ionizing Radiation (Medical Exposure)
d.6	demonstrate the understanding to explain the relationship between dental disease and dietary intake and undertake simple caries risk assessment.
d.7	demonstrate an understanding of how common dental conditions may be prevented: caries, periodontal disease, & tooth surface loss.
d.8	demonstrate the ability to perform basic life support procedures in a simulated emergency.
d.9	demonstrate the ability to apply the skills of active listening, including demonstrating an understanding of both verbal and nonverbal communication in a dental environment
d.10	demonstrate the differences between a population and a sample and the relevance in dental research
d.11	demonstrate the ability to explain the basic concepts of epidemiology and prevalence in the context of oral disease
d.12	demonstrate a basic understanding of the hierarchy of evidence and study designs commonly used in dentistry
d.13	demonstrate the ability to perform basic searches of electronic databases to find information on basic dental issues.
d.14	demonstrate the ability to write in a scientific manner, including referencing, at a basic level to produce a clinical case report
d.15	demonstrate a basic understanding of statistical methods commonly used in the dental literature
d.16	demonstrate an understanding of the potential contribution of psychology to dentistry
d.17	demonstrate an understanding of the relevant theories of health related behavior and behavior change and communicate effectively using those theories in a dental setting.
d.18	demonstrate an understanding of the concept of the dental team to allow them to work together with colleagues including Dental Care Professionals
d.19	demonstrate the ability to chart the presence or absence of teeth.
d.20	demonstrate an understanding of the need to elicit a simple dental and social history in a dental context.
d.21	demonstrate the skills to prepare each other, comfortably and safely, in readiness for relevant simple dental procedures and demonstrate the rudiments of assisted operating
d.22	demonstrate that they have begun to understand the relevance of reflective learning and practice to a career in dentistry
d.23	demonstrate how the concept of biological variation is applicable to the practicing dentist.
d.24	demonstrate an understanding of some of the main concepts of IT at a general level including knowledge and competence in using the basic common functions of a personal computer and its operating systems
d.25	demonstrate a basic understanding of some of the concepts and terms associated with using the Internet, and to appreciate some of the security considerations.
d.26	demonstrate the ability to accomplish common Web search tasks using a Web browsing application and available engines tools, to bookmark Web sites and to print Web pages and search outputs and navigate within and complete Web based forms.

d.27	demonstrate a basic understanding of the concepts of electronic mail (e-mail) including some of the security considerations associated with using e-mail.
d.28	demonstrate competence in using e-mail software to send and receive messages, to attach files to mail message and to organize and manage message folders/directories within e-mail messages.

4. Course Content

Course Contents	Symposia	Seminars
General anatomy	Oral cavity, maxilla and mandible anatomy	
	Tongue, salivary glands, muscles of mastication anatomy	
	Blood and nerve supply oral cavity	
	Nasopharynx, laryngopharynx facial nerve, glossopharyngeal, vagus and hypoglossal nerves	
	Digestive system anatomy, nerve and blood supply	
	Anatomy, innervation and blood supply of the pancreas and small intestine	
	Anatomy, innervation and blood supply of the large intestine	
	Anatomy, innervations and blood supply of the liver& kidney	
Dental anatomy	tooth morphology, identify teeth according to structure, Differentiation between anatomic crown and root from a clinical crown and root, tooth surface identification, numbering systems	
	Anatomical landmarks	
	Tooth morphology descriptions	
General Histology	Identify hard and soft tissues	
	cell's function	
	Muscles histology	
	digestive tract histology	
	pancreas and small intestine histology	

	large intestine histology	
	Liver histology	
Biochemistry	composition and structure of DNA	
	functions of the liver and food is metabolized	
	Obesity, food intake, carbohydrate and fat metabolism	
Oral histology	Tooth, location, mineral content and function	
	oral mucosa histology, Periodontium structure	
	Temporomandibular joint	
	microscopic arrangement of the major and minor salivary glands	
Oral Surgery	failures of mastication	
Microbiology	common micro-organism on the oral cavity	
	innate immune system	
	Antibody structure and classes	
	microbes colonies	
	infectious diseases	
	antigen: antibody specificity	
Physiology	mechanisms involved in mastication	
	Salivation (mechanism	
	swallowing	
	acid production in the stomach	
	Digestion , absorption	
	functions of the large intestine	
	hormones	
	Kidney and excretion physiology	
Dental Biomaterials	Impression materials	
	Tooth colored esthetic material	
	Difficult oral environment	

Radiology	Radiation in dentistry	
	Radiation Protection	
General pathology	cell degeneration, apoptosis and necrosis	
	healing, regeneration, and repair mechanisms	
Oral Pathology	Erosion, plaque, caries, and tooth surface loss (bacterial and non-bacterial).	
	Sequala of dental caries	
Pharmacology	Foundation lectures	
	Gastric acid secretion	
	Antibiotics (chemotherapy)	
	Drug receptors	
	Diuretics	
Phoniatrics	anatomical arrangement of the structures involved in speech	
Oral medicine & periodontology	The importance of extra and intra oral examination	
	Dental plaque and calculus	
	Xerostomia	
	Mouth ulcers	
Dental public health	Nutrition and caries	
	Infection control	
	Fluoride & Caries Prevention	
General medicine	Diarrhea	
	Liver Diseases	
	Diabetes mellitus	
	Dialysis and chronic renal disease	
Epidemiology	Descriptive methods of statistical analysis	

- **English language and medical terminology**
- **Lectures for acquiring skills and not involved in assessment exams:**

Ethics
Professionalism
Scientific writing
Stress in dentistry
IT

Clinical Contents	Clinical Topics
Periodontology	1. Introduction to clinical skills 2. History & Examination 3. Oral hygiene & BPE 4. Gingival & plaque index & scores 5. Supra-gingival scaling 6. Instruments 7. Probing, furcation, mobility & recession 8. Mechanical scalers 9. Simulation of first patient visit
Dental Public Health	1. Diet, risk assessment & prevention planning 2. Fluoride varnish Application 3. Fissure sealant 4. Health & safety revision 5. Helping patients change their behavior
Conservative Dentistry	1. Sensibility testing 2. Rubber dam 3. Handed working instruments 4. Minimal composite restoration 5. Polishing & non carious tooth tissue loss 6. Anterior approximal lesions 7. Finishing & polishing composite restoration
Removable Prosthodontics	1. Impression making 2. Simple examination of occlusion 3. Classification of the edentulous area 4. Partial denture design & surveying

Course work content	Symposia	Discipline

EBL (11 cases)	General Anatomy General histology Dental anatomy Oral histology Physiology Pharmacology Microbiology Dental materials X ray General medicine Oral medicine & periodontology Oral pathology General pathology Oral surgery Dental public health Biochemistry Phonetics	
KPT (4 tests)		Periodontology Dental Public Health Conservative Dentistry Removable Prosthodontics
Anatomy spotter		General anatomy General histology Oral histology Dental anatomy
Poster presentation	Poster presentation guidelines	

5. Contact Hours

No	Activity	Contact Hours
1	**Lecture**	8hrs/week
2	**Laboratory/clinical (Practical)**	14 hrs/week
3	**EBL**	3 hrs/week
4	**Self- learning/ material collection**	4 hrs/week
4	**Office hours**	2hrs/week
	Total	30hrs/week

6. Teaching and learning methods

(Alignment of Teaching Methods with ILOS)

No	Method	Basic knowledge	Intellectual Skills	Professional Skills	General Skills
1	Lectures/Symposia	√	√		
2	EBL/Problem based learning	√	√	√	√
3	Clinical / practical sessions	√		√	√
4	Seminars	√	√	√	√

7. Teaching and learning methods of disables

None

8. Student Assessments

8.1. Assessment Methods

(Alignment of Assessment Methods with ILOS)

No	Method	Basic knowledge	Intellectual Skills	Professional Skills	General Skills
1	EBL	√		√	√
2	Anatomy spotter (formative& summative)	√	√		
3	Poster presentation	√		√	√
4	Key Procedure Test (KPT) as an Ongoing clinical assessment	√	√	√	
5	MCQ Exam (Formative and Summative)	√	√		
6	SAP Exam (Formative and Summative)	√	√		
7	English language and medical terminology	Pass or fail			

8.2. Assessment length, degree, and proportion of total Assessment Score

No	Method	Week
1	EBL	At 2nd session of EBL cases (12 cases during the year)
2	Formative exam (Anatomy spotter, MCQ, SAP)	At the end of 1st semester
3	Poster presentation	During 2nd Semester
	Anatomy spotter	During 2nd semester
	Key Procedure Test (KPT) as an Ongoing clinical assessment	Continuous assessment during the year
	Summative exams (MCQ, SAP)	At the end of the year
	English language and medical terminology	At the end of the year
No	**Method**	**Weight**
1	EBL	132\592=22.29 %
2	Poster	40\592= 0.067%
3	Anatomy spotter	60/592= 10.1%
4	MCQ	180\592= 30.4%
5	SAP	180\592= 30.4%
	KPT	Pass or fail
Total		100%

9. Learning Resources and Facilities

9.1. Learning Resources

Required Textbooks	1. Human anatomy : color atlas and text book, coasling J A C 2008 2. Ten Cate's oral Ten Cate's oral histology: development, structure, and function- Nanci, Antonio, Ten Cate, A. R. c2013 3. Principles of anatomy & physiology: Volume 1: Organization, support and movemenet, and control systems of the uman body - Tortora, Gerard J,.Derrickson, Bryan c2011 4. Wheeler's Dental Anatomy, Physiology, 9th edition, Stanley J. Nelson,2010
Other Learning Materials	

9.2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	- Classroom / EBL rooms/ Clinics / Labs

Item	Resources
Technology Resources (AV, data show, Smart Screen, software, etc.)	- PCs + Data Show + Smart Screen
Other Resources (Specify, e.g., if specific laboratory equipment is required, list requirements or attach a list)	- Internet Connection

10. Matrix of course ILOS and the course content

Items	Details	Basic knowledge	Intellectual Skills	Professional Skills	General Skills
Year Contents	General anatomy	a.1,a.2,a.3	b.1		
	General histology	a.4	b.1		
	physiology	a.3	b.3, b.6, b.7		
	Microbiology	a.5,a.6	b.9,b.10,b.11, b.12,b.13		
	Pharmacology		b.13, b.14,b.15	c.3	
	General pathology	a.4	b.1, b.2		
	Dental Biomaterials	a.7		c.11	
	Oral surgery	a.2	b.15	c.1	
	Periodontology	a.2,a.5,a.6	b.2,b.5,b.6,b.4, b.9, b.11,b.19	c.1,c.15,c.8	
	phoniatrics		b.6		
	Biochemistry		b.3,b.5		
	Oral histology	a.2,a.3			d.23
	Dental anatomy	a.2			d.19
	G pathology		b.4,b.8		
	O pathology	a.7	b.17		
	Epidemiology				d.10,d.11, d.12,d.15
	IT				d.14,d.24, d.26,d.27
	G medicine				d.1,d.4
	Preventive dentistry	a.5,b.2,b.4, b.7,b.18			d.2
	Radiology			c.6,c.7c.18	d.5

Teaching and Learning Methods	Lectures/Symposia	a.1, a.2	b.1, b.2, b.3		
	EBL/Problem based learning	a1,a2, a3,	b1,b2,b4, b10	c1,c2,c 4	
	Lab practice	a.2		c.8,c.9	
	Clinical Sessions			c16,c9 ,c8	d5,d21,d18,d9
Activities and Sources of Teaching and Learning	EBL Sessions	a.1, a.2	b.1	c.6, c.7	d.4
	Poster Presentation			c.12	d.18
Student Assessment	EBL	a.1, a.2	b.1		d.4
	Poster presentation			c.12	d.18
	Anatomy spotter	a.1, a.2			
	MCQ Exam (Formative and Summative)	a.1, a.2	b.3,b.2,b.7, b.10		
	SAP Exam (Formative and Summative)			c.19, c.17,c.13	d.19
	KPT			c.19, c.17,c.16, c.11	

Matrix of Year course ILOs and program ILOs:

Course ILOs	Program ILOs								
	A. Knowledge and understanding								
	A. 1	A. 2	A. 3	A. 4	A. 5	A. 6	A. 7	A. 8	
a.1	√								
a.2		√							
a.3	√								
a.4		√							
a.5		√							
a.6				√	√				
a.7								√	
B. Intellectual skills									
	B. 1	B. 2	B. 3	B. 4	B. 5	B. 6	B. 7	B. 8	
b.1	√								
b.2		√							
b.3	√								
b.4									

b.5	√								
b.6	√								
b.7		√							
b.8		√							
b.9	√	√							
b.10	√	√							
b.11	√	√							
b.12	√	√							
b.13			√	√					
b.14				√	√				
b.15			√		√				
b.16						√			
b.17					√	√			
b.18	√	√				√			
b.19						√			

c. Professional and practical skills

	C.1	C.2	C.3	C.4	C.5	C.6	C.7	C.8	C.9	C.10	C.11	
c.1										√	√	
c.2		√								√		

c.3										√	√	
c.4										√		
c.5										√		
c.6				√								
c.7	√	√										
c.8	√	√										
c.9									√			
c.10					√							
c.11				√								
c.12	√											
c.13	√											
c.14	√											
c.15		√		√								
c.16							√					
c.17			√									

d. General and transferable skills

	D.1	D.2	D.3	D.4	D.5	D.6	D.7	D.8	D.9	D.10	D.11	D.12	
d.1	√												

d.2	√	√											
d.3		√	√										
d.4											√		
d.5									√				
d.6		√									√		
d.7								√	√	√			
d.8									√				
d.9	√												
d.10		√											
d.11		√						√					
d.12											√	√	
d.13					√								
d.14			√	√									
d.15				√									
d.16								√	√		√		
d.17								√			√		
d.18											√		

d.19		√		√									
d.20		√	√	√									
d.21	√	√											
d.22	√	√											
d.23	√	√											
d.24					√								
d.25					√								
d.26					√								
d.27					√	√							
d.28					√	√							

11. Student Academic Counseling and Support

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

Year Coordinator(s)

Assist. Prof. Dr**/ Samah Khaled**

Assist. Prof. Dr**/ Sally Elsayed**

Dr**/ Elham Hassan**

Year Director

Ass.Prof. Dr**/ Samah Khaled**

Program Director

Prof. Dr/ Radwa Emera

Mansoura Manchester Dental Program

Year specification

1st year

2022/2023

Year Specification

Program Name	**Mansoura Manchester Dental Program**
Program	Bachelor of Dental science-MMDP
Year Title	**1st year MMDP**
Year Code	**MMDPY1**
Academic year	2022-2023

1. Course Identification

Course Title	**1st year MMDP**
Course Code	MMDPY1
Program	Bachelor of Dental science-MMDP
Number of hours	1206 /national hours

2. Course Description & Objectives

• **Course Description**	The scientific content with different disciplines provides the students with essential and high-level of knowledge, communication skills and professionalism.
• **Course Objective**	By the end of this course students will be able to; 1. Understand the complex issues involved in the scientific basis of dentistry. 2. Apply intellectual skills, knowledge, and behavior in the field of dentistry. 3. Reflective, committed to lifelong learning 4. Lead a team and manage any conflict within the team. 5. Deal professionally with staff and professional colleagues.

3. Intended Learning Outcomes (ILOS) of the course

a	**Knowledge and understanding**
a.1	Demonstrate knowledge of the anatomical structure of the head & neck, thorax and abdomen and understanding of the relationship of this to function
a.2	Demonstrate knowledge of the anatomical structure of the mouth and teeth and understanding of the relationship of this to function.
a.3	Demonstrate the knowledge to define levels of organization within the human body.
a.4	Demonstrate the ability to identify how systems are regulated and integrated to adopt a holistic approach to the practice of dentistry
a.5	Demonstrate knowledge of the role of saliva in maintaining dental health.
a.6	Demonstrate the knowledge to describe the basic mechanisms underlying dental caries, periodontal disease and non-bacterial tooth surface loss.
a.7	Demonstrate knowledge of the properties of dental materials that the student will use at this stage of training.
b	**Intellectual skills**
b.1	demonstrate the ability to identify how systems are regulated and integrated to adopt a holistic approach to the practice of dentistry
b.2	demonstrate the ability to recognize how acute and chronic failure of nutritional and digestion systems may present in dental practice.
b.3	demonstrate the understanding to explain the need for nutrients and the concept of food as an energy store.
b.4	demonstrate the knowledge to describe causes of malnutrition and common deficiency diseases that may present to the dentist
b.5	demonstrate the understanding to explain the relationship between obesity and food intake.
b.6	demonstrate an understanding of the processes involved in speech mastication and deglutition
b.7	demonstrate the knowledge to define the mechanisms underlying diseases of the human body at a basic level.
b.8	demonstrate the ability to recognize how common diseases are manifested and how they may present in dental practice.
b.9	demonstrate a basic understanding of the pathology of caries, periodontal disease, & tooth surface loss.
b.10	demonstrate an appreciation of the nature and variety of common micro-organisms that interact with the human body in health and how these interactions may be prevented.
b.11	demonstrate the ability to describe the impact of common micro-organisms on the oral cavity and digestive system.
b.12	demonstrate the ability to identify the nature and variety of common micro-organisms that interact with the mouth in health and disease.
b.13	demonstrate the understanding to explain the actions of anti- microbial agents commonly prescribed by dentists.
b.14	demonstrate the knowledge to describe the actions and methods of administration of common pharmaceutical agents likely to be encountered in patients attending for dental treatment.
b.15	demonstrate the ability to explain how common anti- microbial agents that a dentist can prescribe are effective in managing dental disease

b.16	demonstrate the ability to identify effects that pharmaceutical agents used at this stage of training to treat dental disease may have on the main systems in the human body including drug interactions.
b.17	demonstrate the knowledge to describe the basic mechanisms underlying dental caries, periodontal disease, and non-bacterial tooth surface loss.
b.18	demonstrate the understanding to explain the relationship between dental disease and dietary intake and undertake simple caries risk assessment.
b.19	demonstrate the skills required to remove supra gingival plaque on each other.
c	**Professional and Practical skills**
c.1	demonstrate the understanding to explain the actions of anti- microbial agents commonly prescribed by dentists.
c.2	demonstrate the knowledge to identify common pharmaceutical agents affecting the digestive systems in the human body.
c.3	demonstrate the knowledge to describe the actions and methods of administration of common pharmaceutical agents likely to be encountered in patients attending for dental treatment.
c.4	demonstrate the ability to explain how common anti-microbial agents that a dentist can prescribe are effective in managing dental disease
c.5	demonstrate the ability to identify effects that pharmaceutical agents used at this stage of training to treat dental disease may have on the main systems in the human body including drug interactions.
c.6	demonstrate understanding of the fundamental ethical and legal principles of practicing dentistry.
c.7	demonstrate the ability to recognize supra gingival plaque.
c.8	demonstrate the ability to perform simple plaque scoring.
c.9	demonstrate an understanding of how common dental conditions may be prevented: caries, periodontal disease, & tooth surface loss.
c.10	demonstrate the ability to handle dental instruments and materials used at this stage of their training safely and in accordance with current cross infection guidelines.
c.11	demonstrate an understanding of the concept of the dental team to allow them to work together with colleagues including Dental Care Professionals
c.12	demonstrate the ability to chart the presence or absence of teeth
c.13	demonstrate an understanding of the need to elicit a simple dental and social history in a dental context.
c.14	demonstrate the ability to undertake a basic intra oral and extra oral examination
c.15	demonstrate the skills to prepare each other, comfortably and safely, in readiness for relevant simple dental procedures and demonstrate the rudiments of assisted operating
c.16	demonstrate the skills required to place simple direct restorations in simulated casts in harmony with oral health.
c.17	demonstrate a basic understanding of the role of imaging techniques used in dentistry
d	**General and transferable skills**
d.1	demonstrate the ability to recognize and understand the impact of lifestyle on health.
d.2	demonstrate the ability to discuss health promotion and its impact on dentistry.
d.3	demonstrate understanding of the fundamental ethical and legal principles of practicing dentistry.

d.4	demonstrate a basic understanding of the importance of the effects of social context on health
d.5	demonstrate the ability to discharge the legal and professional responsibilities of a dentist with respect to patient care including the provisions of Ionizing Radiation (Medical Exposure)
d.6	demonstrate the understanding to explain the relationship between dental disease and dietary intake and undertake simple caries risk assessment.
d.7	demonstrate an understanding of how common dental conditions may be prevented: caries, periodontal disease, & tooth surface loss.
d.8	demonstrate the ability to perform basic life support procedures in a simulated emergency.
d.9	demonstrate the ability to apply the skills of active listening, including demonstrating an understanding of both verbal and nonverbal communication in a dental environment
d.10	demonstrate the differences between a population and a sample and the relevance in dental research
d.11	demonstrate the ability to explain the basic concepts of epidemiology and prevalence in the context of oral disease
d.12	demonstrate a basic understanding of the hierarchy of evidence and study designs commonly used in dentistry
d.13	demonstrate the ability to perform basic searches of electronic databases to find information on basic dental issues.
d.14	demonstrate the ability to write in a scientific manner, including referencing, at a basic level to produce a clinical case report
d.15	demonstrate a basic understanding of statistical methods commonly used in the dental literature
d.16	demonstrate an understanding of the potential contribution of psychology to dentistry
d.17	demonstrate an understanding of the relevant theories of health related behavior and behavior change and communicate effectively using those theories in a dental setting.
d.18	demonstrate an understanding of the concept of the dental team to allow them to work together with colleagues including Dental Care Professionals
d.19	demonstrate the ability to chart the presence or absence of teeth.
d.20	demonstrate an understanding of the need to elicit a simple dental and social history in a dental context.
d.21	demonstrate the skills to prepare each other, comfortably and safely, in readiness for relevant simple dental procedures and demonstrate the rudiments of assisted operating
d.22	demonstrate that they have begun to understand the relevance of reflective learning and practice to a career in dentistry
d.23	demonstrate how the concept of biological variation is applicable to the practicing dentist.
d.24	demonstrate an understanding of some of the main concepts of IT at a general level including knowledge and competence in using the basic common functions of a personal computer and its operating systems
d.25	demonstrate a basic understanding of some of the concepts and terms associated with using the Internet, and to appreciate some of the security considerations.
d.26	demonstrate the ability to accomplish common Web search tasks using a Web browsing application and available engines tools, to bookmark Web sites and to print Web pages and search outputs and navigate within and complete Web based forms.

d.27	demonstrate a basic understanding of the concepts of electronic mail (e-mail) including some of the security considerations associated with using e-mail.
d.28	demonstrate competence in using e-mail software to send and receive messages, to attach files to mail message and to organize and manage message folders/directories within e-mail messages.

4. Course Content

Course Contents	Symposia	Seminars
General anatomy	Oral cavity, maxilla and mandible anatomy	
	Tongue, salivary glands, muscles of mastication anatomy	
	Blood and nerve supply oral cavity	
	Nasopharynx, laryngopharynx facial nerve, glossopharyngeal, vagus and hypoglossal nerves	
	Digestive system anatomy, nerve and blood supply	
	Anatomy, innervation and blood supply of the pancreas and small intestine	
	Anatomy, innervation and blood supply of the large intestine	
	Anatomy, innervations and blood supply of the liver& kidney	
Dental anatomy	tooth morphology, identify teeth according to structure, Differentiation between anatomic crown and root from a clinical crown and root, tooth surface identification, numbering systems	
	Anatomical landmarks	
	Tooth morphology descriptions	
General Histology	Identify hard and soft tissues	
	cell's function	
	Muscles histology	
	digestive tract histology	
	pancreas and small intestine histology	

	large intestine histology	
	Liver histology	
Biochemistry	composition and structure of DNA	
	functions of the liver and food is metabolized	
	Obesity, food intake, carbohydrate and fat metabolism	
Oral histology	Tooth, location, mineral content and function	
	oral mucosa histology, Periodontium structure	
	Temporomandibular joint	
	microscopic arrangement of the major and minor salivary glands	
Oral Surgery	failures of mastication	
Microbiology	common micro-organism on the oral cavity	
	innate immune system	
	Antibody structure and classes	
	microbes colonies	
	infectious diseases	
	antigen: antibody specificity	
Physiology	mechanisms involved in mastication	
	Salivation (mechanism	
	swallowing	
	acid production in the stomach	
	Digestion , absorption	
	functions of the large intestine	
	hormones	
	Kidney and excretion physiology	
Dental Biomaterials	Impression materials	
	Tooth colored esthetic material	
	Difficult oral environment	

Radiology	Radiation in dentistry	
	Radiation Protection	
General pathology	cell degeneration, apoptosis and necrosis	
	healing, regeneration, and repair mechanisms	
Oral Pathology	Erosion, plaque, caries, and tooth surface loss (bacterial and non-bacterial).	
	Sequala of dental caries	
Pharmacology	Foundation lectures	
	Gastric acid secretion	
	Antibiotics (chemotherapy)	
	Drug receptors	
	Diuretics	
Phoniatrics	anatomical arrangement of the structures involved in speech	
Oral medicine & periodontology	The importance of extra and intra oral examination	
	Dental plaque and calculus	
	Xerostomia	
	Mouth ulcers	
Dental public health	Nutrition and caries	
	Infection control	
	Fluoride & Caries Prevention	
General medicine	Diarrhea	
	Liver Diseases	
	Diabetes mellitus	
	Dialysis and chronic renal disease	
Epidemiology	Descriptive methods of statistical analysis	

- **English language and medical terminology**
- **Lectures for acquiring skills and not involved in assessment exams:**

Ethics
Professionalism
Scientific writing
Stress in dentistry
IT

Clinical Contents	Clinical Topics
Periodontology	1. Introduction to clinical skills 2. History & Examination 3. Oral hygiene & BPE 4. Gingival & plaque index & scores 5. Supra-gingival scaling 6. Instruments 7. Probing, furcation, mobility & recession 8. Mechanical scalers 9. Simulation of first patient visit
Dental Public Health	1. Diet, risk assessment & prevention planning 2. Fluoride varnish Application 3. Fissure sealant 4. Health & safety revision 5. Helping patients change their behavior
Conservative Dentistry	1. Sensibility testing 2. Rubber dam 3. Handed working instruments 4. Minimal composite restoration 5. Polishing & non carious tooth tissue loss 6. Anterior approximal lesions 7. Finishing & polishing composite restoration
Removable Prosthodontics	1. Impression making 2. Simple examination of occlusion 3. Classification of the edentulous area 4. Partial denture design & surveying

Course work content	Symposia	Discipline

EBL (11 cases)	General Anatomy General histology Dental anatomy Oral histology Physiology Pharmacology Microbiology Dental materials X ray General medicine Oral medicine & periodontology Oral pathology General pathology Oral surgery Dental public health Biochemistry Phonetics	
KPT (4 tests)		Periodontology Dental Public Health Conservative Dentistry Removable Prosthodontics
Anatomy spotter		General anatomy General histology Oral histology Dental anatomy
Poster presentation	Poster presentation guidelines	

5. Contact Hours

No	Activity	Contact Hours
1	**Lecture**	8hrs/week
2	**Laboratory/clinical (Practical)**	14 hrs/week
3	**EBL**	3 hrs/week
4	**Self- learning/ material collection**	4 hrs/week
4	**Office hours**	2hrs/week
	Total	30hrs/week

6. Teaching and learning methods

(Alignment of Teaching Methods with ILOS)

No	Method	Basic knowledge	Intellectual Skills	Professional Skills	General Skills
1	Lectures/Symposia	√	√		
2	EBL/Problem based learning	√	√	√	√
3	Clinical / practical sessions	√		√	√
4	Seminars	√	√	√	√

7. Teaching and learning methods of disables

None

8. Student Assessments

8.1. Assessment Methods

(Alignment of Assessment Methods with ILOS)

No	Method	Basic knowledge	Intellectual Skills	Professional Skills	General Skills
1	EBL	√		√	√
2	Anatomy spotter (formative& summative)	√	√		
3	Poster presentation	√		√	√
4	Key Procedure Test (KPT) as an Ongoing clinical assessment	√	√	√	
5	MCQ Exam (Formative and Summative)	√	√		
6	SAP Exam (Formative and Summative)	√	√		
7	English language and medical terminology	Pass or fail			

8.2. Assessment length, degree, and proportion of total Assessment Score

No	Method	Week
1	EBL	At 2nd session of EBL cases (12 cases during the year)
2	Formative exam (Anatomy spotter, MCQ, SAP)	At the end of 1st semester
3	Poster presentation	During 2nd Semester
	Anatomy spotter	During 2nd semester
	Key Procedure Test (KPT) as an Ongoing clinical assessment	Continuous assessment during the year
	Summative exams (MCQ, SAP)	At the end of the year
	English language and medical terminology	At the end of the year
No	**Method**	**Weight**
1	EBL	132\592=22.29 %
2	Poster	40\592= 0.067%
3	Anatomy spotter	60/592= 10.1%
4	MCQ	180\592= 30.4%
5	SAP	180\592= 30.4%
	KPT	Pass or fail
Total		100%

9. Learning Resources and Facilities

9.1. Learning Resources

Required Textbooks	1. Human anatomy : color atlas and text book, coasling J A C 2008 2. Ten Cate's oral Ten Cate's oral histology: development, structure, and function- Nanci, Antonio, Ten Cate, A. R. c2013 3. Principles of anatomy & physiology: Volume 1: Organization, support and movemenet, and control systems of the uman body - Tortora, Gerard J,.Derrickson, Bryan c2011 4. Wheeler's Dental Anatomy, Physiology, 9th edition, Stanley J. Nelson,2010
Other Learning Materials	

9.2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	- Classroom / EBL rooms/ Clinics / Labs

Item	Resources
Technology Resources (AV, data show, Smart Screen, software, etc.)	- PCs + Data Show + Smart Screen
Other Resources (Specify, e.g., if specific laboratory equipment is required, list requirements or attach a list)	- Internet Connection

10. Matrix of course ILOS and the course content

Items	Details	Basic knowledge	Intellectual Skills	Professional Skills	General Skills
Year Contents	General anatomy	a.1,a.2,a.3	b.1		
	General histology	a.4	b.1		
	physiology	a.3	b.3, b.6, b.7		
	Microbiology	a.5,a.6	b.9,b.10,b.11, b.12,b.13		
	Pharmacology		b.13, b.14,b.15	c.3	
	General pathology	a.4	b.1, b.2		
	Dental Biomaterials	a.7		c.11	
	Oral surgery	a.2	b.15	c.1	
	Periodontology	a.2,a.5,a.6	b.2,b.5,b.6,b.4, b.9, b.11,b.19	c.1,c.15,c.8	
	phoniatrics		b.6		
	Biochemistry		b.3,b.5		
	Oral histology	a.2,a.3			d.23
	Dental anatomy	a.2			d.19
	G pathology		b.4,b.8		
	O pathology	a.7	b.17		
	Epidemiology				d.10,d.11, d.12,d.15
	IT				d.14,d.24, d.26,d.27
	G medicine				d.1,d.4
	Preventive dentistry	a.5,b.2,b.4, b.7,b.18			d.2
	Radiology			c.6,c.7c.18	d.5

Teaching and Learning Methods	Lectures/Symposia	a.1, a.2	b.1, b.2, b.3		
	EBL/Problem based learning	a1,a2, a3,	b1,b2,b4, b10	c1,c2,c 4	
	Lab practice	a.2		c.8,c.9	
	Clinical Sessions			c16,c9 ,c8	d5,d21,d18,d9
Activities and Sources of Teaching and Learning	EBL Sessions	a.1, a.2	b.1	c.6, c.7	d.4
	Poster Presentation			c.12	d.18
Student Assessment	EBL	a.1, a.2	b.1		d.4
	Poster presentation			c.12	d.18
	Anatomy spotter	a.1, a.2			
	MCQ Exam (Formative and Summative)	a.1, a.2	b.3,b.2,b.7, b.10		
	SAP Exam (Formative and Summative)			c.19, c.17,c.13	d.19
	KPT			c.19, c.17,c.16, c.11	

Matrix of Year course ILOs and program ILOs:

Course ILOs	Program ILOs								
	A. Knowledge and understanding								
	A. 1	A. 2	A. 3	A. 4	A. 5	A. 6	A. 7	A. 8	
a.1	√								
a.2		√							
a.3	√								
a.4		√							
a.5		√							
a.6				√	√				
a.7								√	
B. Intellectual skills									
	B. 1	B. 2	B. 3	B. 4	B. 5	B. 6	B. 7	B. 8	
b.1	√								
b.2		√							
b.3	√								
b.4									

b.5	√								
b.6	√								
b.7		√							
b.8		√							
b.9	√	√							
b.10	√	√							
b.11	√	√							
b.12	√	√							
b.13			√	√					
b.14				√	√				
b.15			√		√				
b.16						√			
b.17					√	√			
b.18	√	√				√			
b.19						√			

c. Professional and practical skills

	C.1	C.2	C.3	C.4	C.5	C.6	C.7	C.8	C.9	C.10	C.11	
c.1										√	√	
c.2		√								√		

c.3										√	√	
c.4										√		
c.5										√		
c.6				√								
c.7	√	√										
c.8	√	√										
c.9									√			
c.10					√							
c.11				√								
c.12	√											
c.13	√											
c.14	√											
c.15		√		√								
c.16							√					
c.17			√									

d. General and transferable skills

	D.1	D.2	D.3	D.4	D.5	D.6	D.7	D.8	D.9	D.10	D.11	D.12	
d.1	√												

d.2	√	√											
d.3		√	√										
d.4											√		
d.5									√				
d.6		√									√		
d.7								√	√	√			
d.8									√				
d.9	√												
d.10		√											
d.11		√						√					
d.12											√	√	
d.13					√								
d.14			√	√									
d.15				√									
d.16								√	√		√		
d.17								√			√		
d.18											√		

d.19		√		√									
d.20		√	√	√									
d.21	√	√											
d.22	√	√											
d.23	√	√											
d.24					√								
d.25					√								
d.26					√								
d.27					√	√							
d.28					√	√							

11. Student Academic Counseling and Support

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

Year Coordinator(s)

Assist. Prof. Dr**/ Samah Khaled**

Assist. Prof. Dr**/ Sally Elsayed**

Year Director

Prof. Dr/ **Mohamed Abdelrahman**

Program Director

Prof. Dr/ Abeer Abdelatief

Mansoura Manchester Dental Program

Year specification

1st year

2021/2022

Year Specification

Program Name	**Mansoura Manchester Dental Program**
Program	Bachelor of Dental science-MMDP
Year Title	**1st year MMDP**
Year Code	**MMDPY1**
Academic year	2021-2022

1. Course Identification

Course Title	**1st year MMDP**
Course Code	MMDPY1
Program	Bachelor of Dental science-MMDP
Number of hours	1206 /national hours

2. Course Description & Objectives

• **Course Description**	The scientific content with different disciplines provides the students with essential and high-level of knowledge, communication skills and professionalism.
• **Course Objective**	By the end of this course students will be able to; 1. Understand the complex issues involved in the scientific basis of dentistry. 2. Apply intellectual skills, knowledge, and behavior in the field of dentistry. 3. Reflective, committed to lifelong learning 4. Lead a team and manage any conflict within the team. 5. Deal professionally with staff and professional colleagues.

3. Intended Learning Outcomes (ILOS) of the course

a	**Knowledge and understanding**
a.1	Demonstrate knowledge of the anatomical structure of the head & neck, thorax and abdomen and understanding of the relationship of this to function
a.2	Demonstrate knowledge of the anatomical structure of the mouth and teeth and understanding of the relationship of this to function.
a.3	Demonstrate the knowledge to define levels of organization within the human body.
a.4	Demonstrate the ability to identify how systems are regulated and integrated to adopt a holistic approach to the practice of dentistry
a.5	Demonstrate knowledge of the role of saliva in maintaining dental health.
a.6	Demonstrate the knowledge to describe the basic mechanisms underlying dental caries, periodontal disease and non-bacterial tooth surface loss.
a.7	Demonstrate knowledge of the properties of dental materials that the student will use at this stage of training.
b	**Intellectual skills**
b.1	demonstrate the ability to identify how systems are regulated and integrated to adopt a holistic approach to the practice of dentistry
b.2	demonstrate the ability to recognize how acute and chronic failure of nutritional and digestion systems may present in dental practice.
b.3	demonstrate the understanding to explain the need for nutrients and the concept of food as an energy store.
b.4	demonstrate the knowledge to describe causes of malnutrition and common deficiency diseases that may present to the dentist
b.5	demonstrate the understanding to explain the relationship between obesity and food intake.
b.6	demonstrate an understanding of the processes involved in speech mastication and deglutition
b.7	demonstrate the knowledge to define the mechanisms underlying diseases of the human body at a basic level.
b.8	demonstrate the ability to recognize how common diseases are manifested and how they may present in dental practice.
b.9	demonstrate a basic understanding of the pathology of caries, periodontal disease, & tooth surface loss.
b.10	demonstrate an appreciation of the nature and variety of common micro-organisms that interact with the human body in health and how these interactions may be prevented.
b.11	demonstrate the ability to describe the impact of common micro-organisms on the oral cavity and digestive system.
b.12	demonstrate the ability to identify the nature and variety of common micro-organisms that interact with the mouth in health and disease.
b.13	demonstrate the understanding to explain the actions of anti- microbial agents commonly prescribed by dentists.
b.14	demonstrate the knowledge to describe the actions and methods of administration of common pharmaceutical agents likely to be encountered in patients attending for dental treatment.
b.15	demonstrate the ability to explain how common anti- microbial agents that a dentist can prescribe are effective in managing dental disease

b.16	demonstrate the ability to identify effects that pharmaceutical agents used at this stage of training to treat dental disease may have on the main systems in the human body including drug interactions.
b.17	demonstrate the knowledge to describe the basic mechanisms underlying dental caries, periodontal disease, and non-bacterial tooth surface loss.
b.18	demonstrate the understanding to explain the relationship between dental disease and dietary intake and undertake simple caries risk assessment.
b.19	demonstrate the skills required to remove supra gingival plaque on each other.
c	**Professional and Practical skills**
c.1	demonstrate the understanding to explain the actions of anti- microbial agents commonly prescribed by dentists.
c.2	demonstrate the knowledge to identify common pharmaceutical agents affecting the digestive systems in the human body.
c.3	demonstrate the knowledge to describe the actions and methods of administration of common pharmaceutical agents likely to be encountered in patients attending for dental treatment.
c.4	demonstrate the ability to explain how common anti-microbial agents that a dentist can prescribe are effective in managing dental disease
c.5	demonstrate the ability to identify effects that pharmaceutical agents used at this stage of training to treat dental disease may have on the main systems in the human body including drug interactions.
c.6	demonstrate understanding of the fundamental ethical and legal principles of practicing dentistry.
c.7	demonstrate the ability to recognize supra gingival plaque.
c.8	demonstrate the ability to perform simple plaque scoring.
c.9	demonstrate an understanding of how common dental conditions may be prevented: caries, periodontal disease, & tooth surface loss.
c.10	demonstrate the ability to handle dental instruments and materials used at this stage of their training safely and in accordance with current cross infection guidelines.
c.11	demonstrate an understanding of the concept of the dental team to allow them to work together with colleagues including Dental Care Professionals
c.12	demonstrate the ability to chart the presence or absence of teeth
c.13	demonstrate an understanding of the need to elicit a simple dental and social history in a dental context.
c.14	demonstrate the ability to undertake a basic intra oral and extra oral examination
c.15	demonstrate the skills to prepare each other, comfortably and safely, in readiness for relevant simple dental procedures and demonstrate the rudiments of assisted operating
c.16	demonstrate the skills required to place simple direct restorations in simulated casts in harmony with oral health.
c.17	demonstrate a basic understanding of the role of imaging techniques used in dentistry
d	**General and transferable skills**
d.1	demonstrate the ability to recognize and understand the impact of lifestyle on health.
d.2	demonstrate the ability to discuss health promotion and its impact on dentistry.
d.3	demonstrate understanding of the fundamental ethical and legal principles of practicing dentistry.

d.4	demonstrate a basic understanding of the importance of the effects of social context on health
d.5	demonstrate the ability to discharge the legal and professional responsibilities of a dentist with respect to patient care including the provisions of Ionizing Radiation (Medical Exposure)
d.6	demonstrate the understanding to explain the relationship between dental disease and dietary intake and undertake simple caries risk assessment.
d.7	demonstrate an understanding of how common dental conditions may be prevented: caries, periodontal disease, & tooth surface loss.
d.8	demonstrate the ability to perform basic life support procedures in a simulated emergency.
d.9	demonstrate the ability to apply the skills of active listening, including demonstrating an understanding of both verbal and nonverbal communication in a dental environment
d.10	demonstrate the differences between a population and a sample and the relevance in dental research
d.11	demonstrate the ability to explain the basic concepts of epidemiology and prevalence in the context of oral disease
d.12	demonstrate a basic understanding of the hierarchy of evidence and study designs commonly used in dentistry
d.13	demonstrate the ability to perform basic searches of electronic databases to find information on basic dental issues.
d.14	demonstrate the ability to write in a scientific manner, including referencing, at a basic level to produce a clinical case report
d.15	demonstrate a basic understanding of statistical methods commonly used in the dental literature
d.16	demonstrate an understanding of the potential contribution of psychology to dentistry
d.17	demonstrate an understanding of the relevant theories of health related behavior and behavior change and communicate effectively using those theories in a dental setting.
d.18	demonstrate an understanding of the concept of the dental team to allow them to work together with colleagues including Dental Care Professionals
d.19	demonstrate the ability to chart the presence or absence of teeth.
d.20	demonstrate an understanding of the need to elicit a simple dental and social history in a dental context.
d.21	demonstrate the skills to prepare each other, comfortably and safely, in readiness for relevant simple dental procedures and demonstrate the rudiments of assisted operating
d.22	demonstrate that they have begun to understand the relevance of reflective learning and practice to a career in dentistry
d.23	demonstrate how the concept of biological variation is applicable to the practicing dentist.
d.24	demonstrate an understanding of some of the main concepts of IT at a general level including knowledge and competence in using the basic common functions of a personal computer and its operating systems
d.25	demonstrate a basic understanding of some of the concepts and terms associated with using the Internet, and to appreciate some of the security considerations.
d.26	demonstrate the ability to accomplish common Web search tasks using a Web browsing application and available engines tools, to bookmark Web sites and to print Web pages and search outputs and navigate within and complete Web based forms.

d.27	demonstrate a basic understanding of the concepts of electronic mail (e-mail) including some of the security considerations associated with using e-mail.
d.28	demonstrate competence in using e-mail software to send and receive messages, to attach files to mail message and to organize and manage message folders/directories within e-mail messages.

4. Course Content

Course Contents	Symposia	Seminars
General anatomy	Oral cavity, maxilla and mandible anatomy	
	Tongue, salivary glands, muscles of mastication anatomy	
	Blood and nerve supply oral cavity	
	Nasopharynx, laryngopharynx facial nerve, glossopharyngeal, vagus and hypoglossal nerves	
	Digestive system anatomy, nerve and blood supply	
	Anatomy, innervation and blood supply of the pancreas and small intestine	
	Anatomy, innervation and blood supply of the large intestine	
	Anatomy, innervations and blood supply of the liver& kidney	
Dental anatomy	tooth morphology, identify teeth according to structure, Differentiation between anatomic crown and root from a clinical crown and root, tooth surface identification, numbering systems	
	Anatomical landmarks	
	Tooth morphology descriptions	
General Histology	Identify hard and soft tissues	
	cell's function	
	Muscles histology	
	digestive tract histology	
	pancreas and small intestine histology	

	large intestine histology	
	Liver histology	
Biochemistry	composition and structure of DNA	
	functions of the liver and food is metabolized	
	Obesity, food intake, carbohydrate and fat metabolism	
Oral histology	Tooth, location, mineral content and function	
	oral mucosa histology, Periodontium structure	
	Temporomandibular joint	
	microscopic arrangement of the major and minor salivary glands	
Oral Surgery	failures of mastication	
Microbiology	common micro-organism on the oral cavity	
	innate immune system	
	Antibody structure and classes	
	microbes colonies	
	infectious diseases	
	antigen: antibody specificity	
Physiology	mechanisms involved in mastication	
	Salivation (mechanism	
	swallowing	
	acid production in the stomach	
	Digestion , absorption	
	functions of the large intestine	
	hormones	
	Kidney and excretion physiology	
Dental Biomaterials	Impression materials	
	Tooth colored esthetic material	
	Difficult oral environment	

Radiology	Radiation in dentistry	
	Radiation Protection	
General pathology	cell degeneration, apoptosis and necrosis	
	healing, regeneration, and repair mechanisms	
Oral Pathology	Erosion, plaque, caries, and tooth surface loss (bacterial and non-bacterial).	
	Sequala of dental caries	
Pharmacology	Foundation lectures	
	Gastric acid secretion	
	Antibiotics (chemotherapy)	
	Drug receptors	
	Diuretics	
Phoniatrics	anatomical arrangement of the structures involved in speech	
Oral medicine & periodontology	The importance of extra and intra oral examination	
	Dental plaque and calculus	
	Xerostomia	
	Mouth ulcers	
Dental public health	Nutrition and caries	
	Infection control	
	Fluoride & Caries Prevention	
General medicine	Diarrhea	
	Liver Diseases	
	Diabetes mellitus	
	Dialysis and chronic renal disease	
Epidemiology	Descriptive methods of statistical analysis	

- **English language and medical terminology**
- **Lectures for acquiring skills and not involved in assessment exams:**

Ethics
Professionalism
Scientific writing
Stress in dentistry
IT

Clinical Contents	Clinical Topics
Periodontology	1. Introduction to clinical skills 2. History & Examination 3. Oral hygiene & BPE 4. Gingival & plaque index & scores 5. Supra-gingival scaling 6. Instruments 7. Probing, furcation, mobility & recession 8. Mechanical scalers 9. Simulation of first patient visit
Dental Public Health	1. Diet, risk assessment & prevention planning 2. Fluoride varnish Application 3. Fissure sealant 4. Health & safety revision 5. Helping patients change their behavior
Conservative Dentistry	1. Sensibility testing 2. Rubber dam 3. Handed working instruments 4. Minimal composite restoration 5. Polishing & non carious tooth tissue loss 6. Anterior approximal lesions 7. Finishing & polishing composite restoration
Removable Prosthodontics	1. Impression making 2. Simple examination of occlusion 3. Classification of the edentulous area 4. Partial denture design & surveying

Course work content	Symposia	Discipline

EBL (11 cases)	General Anatomy General histology Dental anatomy Oral histology Physiology Pharmacology Microbiology Dental materials X ray General medicine Oral medicine & periodontology Oral pathology General pathology Oral surgery Dental public health Biochemistry Phonetics	
KPT (4 tests)		Periodontology Dental Public Health Conservative Dentistry Removable Prosthodontics
Anatomy spotter		General anatomy General histology Oral histology Dental anatomy
Poster presentation	Poster presentation guidelines	

5. Contact Hours

No	Activity	Contact Hours
1	**Lecture**	8hrs/week
2	**Laboratory/clinical (Practical)**	14 hrs/week
3	**EBL**	3 hrs/week
4	**Self- learning/ material collection**	4 hrs/week
4	**Office hours**	2hrs/week
	Total	30hrs/week

6. Teaching and learning methods

(Alignment of Teaching Methods with ILOS)

No	Method	Basic knowledge	Intellectual Skills	Professional Skills	General Skills
1	Lectures/Symposia	√	√		
2	EBL/Problem based learning	√	√	√	√
3	Clinical / practical sessions	√		√	√
4	Seminars	√	√	√	√

7. Teaching and learning methods of disables

None

8. Student Assessments

8.1. Assessment Methods

(Alignment of Assessment Methods with ILOS)

No	Method	Basic knowledge	Intellectual Skills	Professional Skills	General Skills
1	EBL	√		√	√
2	Anatomy spotter (formative& summative)	√	√		
3	Poster presentation	√		√	√
4	Key Procedure Test (KPT) as an Ongoing clinical assessment	√	√	√	
5	MCQ Exam (Formative and Summative)	√	√		
6	SAP Exam (Formative and Summative)	√	√		
7	English language and medical terminology	Pass or fail			

8.2. Assessment length, degree, and proportion of total Assessment Score

No	Method	Week
1	EBL	At 2nd session of EBL cases (12 cases during the year)
2	Formative exam (Anatomy spotter, MCQ, SAP)	At the end of 1st semester
3	Poster presentation	During 2nd Semester
	Anatomy spotter	During 2nd semester
	Key Procedure Test (KPT) as an Ongoing clinical assessment	Continuous assessment during the year
	Summative exams (MCQ, SAP)	At the end of the year
	English language and medical terminology	At the end of the year
No	**Method**	**Weight**
1	EBL	132\592=22.29 %
2	Poster	40\592= 0.067%
3	Anatomy spotter	60/592= 10.1%
4	MCQ	180\592= 30.4%
5	SAP	180\592= 30.4%
	KPT	Pass or fail
Total		100%

9. Learning Resources and Facilities

9.1. Learning Resources

Required Textbooks	1. Human anatomy : color atlas and text book, coasling J A C 2008 2. Ten Cate's oral Ten Cate's oral histology: development, structure, and function- Nanci, Antonio, Ten Cate, A. R. c2013 3. Principles of anatomy & physiology: Volume 1: Organization, support and movemenet, and control systems of the uman body - Tortora, Gerard J,.Derrickson, Bryan c2011 4. Wheeler's Dental Anatomy, Physiology, 9th edition, Stanley J. Nelson,2010
Other Learning Materials	

9.2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	- Classroom / EBL rooms/ Clinics / Labs

Item	Resources
Technology Resources (AV, data show, Smart Screen, software, etc.)	- PCs + Data Show + Smart Screen
Other Resources (Specify, e.g., if specific laboratory equipment is required, list requirements or attach a list)	- Internet Connection

10. Matrix of course ILOS and the course content

Items	Details	Basic knowledge	Intellectual Skills	Professional Skills	General Skills
Year Contents	General anatomy	a.1,a.2,a.3	b.1		
	General histology	a.4	b.1		
	physiology	a.3	b.3, b.6, b.7		
	Microbiology	a.5,a.6	b.9,b.10,b.11, b.12,b.13		
	Pharmacology		b.13, b.14,b.15	c.3	
	General pathology	a.4	b.1, b.2		
	Dental Biomaterials	a.7		c.11	
	Oral surgery	a.2	b.15	c.1	
	Periodontology	a.2,a.5,a.6	b.2,b.5,b.6,b.4, b.9, b.11,b.19	c.1,c.15,c.8	
	phoniatrics		b.6		
	Biochemistry		b.3,b.5		
	Oral histology	a.2,a.3			d.23
	Dental anatomy	a.2			d.19
	G pathology		b.4,b.8		
	O pathology	a.7	b.17		
	Epidemiology				d.10,d.11, d.12,d.15
	IT				d.14,d.24, d.26,d.27
	G medicine				d.1,d.4
	Preventive dentistry	a.5,b.2,b.4, b.7,b.18			d.2
	Radiology			c.6,c.7c.18	d.5

Teaching and Learning Methods	Lectures/Symposia	a.1, a.2	b.1, b.2, b.3		
	EBL/Problem based learning	a1,a2, a3,	b1,b2,b4, b10	c1,c2,c 4	
	Lab practice	a.2		c.8,c.9	
	Clinical Sessions			c16,c9 ,c8	d5,d21,d18,d9
Activities and Sources of Teaching and Learning	EBL Sessions	a.1, a.2	b.1	c.6, c.7	d.4
	Poster Presentation			c.12	d.18
Student Assessment	EBL	a.1, a.2	b.1		d.4
	Poster presentation			c.12	d.18
	Anatomy spotter	a.1, a.2			
	MCQ Exam (Formative and Summative)	a.1, a.2	b.3,b.2,b.7, b.10		
	SAP Exam (Formative and Summative)			c.19, c.17,c.13	d.19
	KPT			c.19, c.17,c.16, c.11	

Matrix of Year course ILOs and program ILOs:

Course ILOs	Program ILOs								
	A. Knowledge and understanding								
	A. 1	A. 2	A. 3	A. 4	A. 5	A. 6	A. 7	A. 8	
a.1	√								
a.2		√							
a.3	√								
a.4		√							
a.5		√							
a.6				√	√				
a.7								√	
B. Intellectual skills									
	B. 1	B. 2	B. 3	B. 4	B. 5	B. 6	B. 7	B. 8	
b.1	√								
b.2		√							
b.3	√								
b.4									

b.5	√								
b.6	√								
b.7		√							
b.8		√							
b.9	√	√							
b.10	√	√							
b.11	√	√							
b.12	√	√							
b.13			√	√					
b.14				√	√				
b.15			√		√				
b.16						√			
b.17					√	√			
b.18	√	√				√			
b.19						√			

c. Professional and practical skills

	C.1	C.2	C.3	C.4	C.5	C.6	C.7	C.8	C.9	C.10	C.11	
c.1										√	√	
c.2		√								√		

c.3										√	√	
c.4										√		
c.5										√		
c.6				√								
c.7	√	√										
c.8	√	√										
c.9									√			
c.10					√							
c.11				√								
c.12	√											
c.13	√											
c.14	√											
c.15		√		√								
c.16							√					
c.17			√									

d. General and transferable skills

	D.1	D.2	D.3	D.4	D.5	D.6	D.7	D.8	D.9	D.10	D.11	D.12	
d.1	√												

d.2	√	√											
d.3		√	√										
d.4											√		
d.5									√				
d.6		√									√		
d.7								√	√	√			
d.8									√				
d.9	√												
d.10		√											
d.11		√						√					
d.12											√	√	
d.13					√								
d.14			√	√									
d.15				√									
d.16								√	√		√		
d.17								√			√		
d.18											√		

d.19		√		√									
d.20		√	√	√									
d.21	√	√											
d.22	√	√											
d.23	√	√											
d.24					√								
d.25					√								
d.26					√								
d.27					√	√							
d.28					√	√							

11. Student Academic Counseling and Support

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

Year Coordinator(s)

Assist. Prof. Dr**/ Samah Khaled**

Assist. Prof. Dr**/ Sally Elsayed**

Year Director

Prof. Dr/ **Mohamed Abdelrahman**

Program Director

Prof. Dr/ Abeer Abdelatief

Mansoura Manchester Dental Program

Year specification

2nd year

2024/2025

Year Specification

Program Name	**Mansoura Manchester Dental Program**
Program	Bachelor of Dental science-MMDP
Year Title	**2nd year MMDP**
Year Code	MMDPY2
Academic year	2024-2025

1. Course Identification

Course Title	**2nd year MMDP**
Course Code	MMDPY2
Program	Bachelor of Dental science-MMDP
Number of hours	1200 /national hours

2. Course Description & Objectives

• **Course Description**	The scientific content with different disciplines (dental and medical) provide the students with an essential and high level of communication skills and professionalism.
• **Course Objective**	By the end of this course, students will be able to; 1. Know to have a critical understanding of the complex issues involved in the scientific basis of dentistry. 2. apply intellectual skills, knowledge, and behaviors in the field of dentistry 3. Can be reflective, committed to lifelong learning

3. Intended Learning Outcomes (ILOS) of the course

a	**Knowledge and understanding**
a.1	Demonstrate knowledge of the anatomical structure of the head & neck, thorax and abdomen and an understanding of its relationship to function and be able to apply this to dentistry
a.2	Demonstrate an understanding of how changes in diet affect the progress of disease
a.3	Demonstrate the knowledge to define the mechanisms underlying diseases of the human body at an intermediate level.
a.4	Demonstrate the ability to recognize how disease is manifested and its impact on the practice of dentistry.
a.5	Demonstrate the ability to identify the nature and variety of micro organisms that interact with man in health and disease.
a.6	Demonstrate the ability to describe the impact of micro-organisms on the human body.
a.7	Demonstrate basic knowledge of the pharmaceutical agents affecting cardio respiratory and musculoskeletal systems in the human body.
a.8	Demonstrate an understanding of the control mechanisms involved in speech, mastication and deglutition.
a.9	Demonstrate an understanding the role of saliva in maintaining dental health.
a.10	Demonstrate knowledge of the properties of dental materials that they are likely to use in this stage of training.
a.11	Demonstrate the ability to describe the impact of micro-organisms on the mouth.
a.12	Demonstrate an understanding of how anti-microbial agents that a dentist can prescribe are effective in managing dental disease.
a.13	Demonstrate the ability to define the principles of action of pharmaceutical agents they are likely to encounter in providing dental treatment
b	**Intellectual skills**
b.1	Demonstrate that they can identify how cardio respiratory and musculoskeletal immune systems are regulated and integrated and demonstrate the ability to adopt a holistic approach to the practise of dentistry.
b.2	Demonstrate the ability to recognize how acute and chronic failure of cardiorespiratory and musculoskeletal immune systems may present in dental practice.
b.3	Demonstrate the knowledge to explain the action of anti-microbial agents that a dentist can prescribe.
b.4	Demonstrate an understanding of how and why pharmaceutical agents used in dental treatment are administered and the ability to prescribe these agents safely and appropriately.
b.5	Demonstrate the ability to identify effects of pharmaceutical agents used at this stage of training to treat dental disease may have on the main systems in the human body including drug interactions.
c	**Professional and Practical skills**
c.1	Demonstrate the ability to give preventive dental advice relevant to adults in a range of dental settings.
c.2	Demonstrate the ability to handle dental instruments and materials used at this stage of their training safely and in accordance with current cross infection guidelines.
c.3	Demonstrate the ability to take the history of a complaint, medical, therapeutic, dental, and social history and undertaken relevant extra intraoral oral examination in a range of clinical settings for adult patients.

c.4	Demonstrate an understanding of the significance of the complaint, medical, therapeutic, dental and social history and synthesize these to identify necessary courses of action.
c.5	Demonstrate an understanding of the indications, risks and benefits of a range of imaging techniques used in dentistry.
c.6	Demonstrate the ability to undertake and interpret common diagnostic imaging procedures applying the provisions of the Ionizing Radiation (Medical Exposure) Regulations as appropriate.
c.7	Demonstrate the ability to prepare patients, comfortably and safely in readiness for relevant dental procedures.
c.8	Demonstrate the range of skills required to work safely alongside dental care professionals including assisted operating.
c.9	Demonstrate the ability to perform the techniques required for administration of local anesthesia including regional, topical and infiltration techniques, to enable the effective delivery of dental treatment.
c.10	Demonstrate the ability to place very simple direct restorations in patients under close supervision.
c.11	Demonstrate the ability to make impressions for removable prostheses on adults using contemporary dental materials under supervision.
c.12	Demonstrate the ability to remove supra and sub-gingival plaque and calculus deposits using hand and / or mechanical instruments under close supervision.
c.13	Demonstrate that they have seen the use of forceps and elevators to remove permanent teeth.
c.14	Demonstrate that they have seen the clinical stages relating to the replacement of missing teeth using either removable or fixed prostheses.
c.15	Demonstrate the ability to perform the clinical and technical stages relating to the replacement of missing teeth using removable prostheses under close supervision.
c.16	Demonstrate that they have observed the preparation of appropriate access cavities for the treatment of single and multi-rooted permanent teeth.
c.17	Demonstrate that they have seen the preparation of root canal systems of permanent teeth ready for obturation and their obturation using contemporary materials and techniques.
c.18	Demonstrate the skills required to adopt a caring and safe approach to adult patients.
c.19	Demonstrate an awareness of medical emergencies that may occur in dental practice and demonstrate the ability to perform basic life support procedures in a simulated emergency.
c.20	Demonstrate at this stage in training the ability to recognize the results and reports of special tests commonly requested in dentistry
d	**General and transferable skills**
d.1	Demonstrate an understanding of the potential contribution of psychology to dentistry.
d.2	Demonstrate the ability to communicate effectively to deliver health education promotion to individuals and groups
d.3	Demonstrate the ability to use a word processing application on a computer to accomplish everyday tasks
d.4	Demonstrate competence in using presentation tools on a computer to accomplish tasks such as creating, formatting, modifying and preparing presentations using different slide layouts for display and printed distribution, to duplicate and move text, pictures images and charts within the presentation and between presentations and to accomplish common operations with images, charts, drawn objects and to use various slide show effects.

4. Course Content

Course Contents	Symposia	Seminars
General Anatomy	Thoracic wall	
	Lung and pleura	
	Anatomy of the hematopoietic system	
	Circulatory systems Case	
	Mediastinum	
	External features of the heart & pericardium	
	Internal features of the heart	
	Blood supply & innervation of the heart	
	Anatomy of the brain	
	Meninges and CSF	
	Anatomy of the spinal cord	
	Cranial nerves	
	Bones and joints	
	Temporal & Infratemporal fossa	
	Vertebral column	
	Trigeminal nerve	
	Nose and paranasal sinuses	
General Histology	Histology of respiratory system	
	Histological structure of blood cells and function	
	Histological structure of the cardiovascular system	
	Histological structure of the nervous system	
	Histological structure of cartilage	
	Histological structure of bone	
physiology	Mechanics of breathing & factors affecting pulmonary ventilation 17 Case 10 18	
	Functions of plasma proteins &RBCs	
	Gas exchange	
	Hemostasis	
	Properties of cardiac muscle	
	Heart rate	

	Cardiac output	
	Arterial blood pressure	
	Sensory nervous system I	
	Sensory nervous system II	
	Motor nervous system	
	Speech	
	Mastication	
	Bone I	
	Bone II	
	Pain I	
	Pain II	
	Propagation of nerve impulses	
Microbiology	Adaptive immunity	
	Autoimmunity	
	Retro viruses	
	Standard procedures of infection control I	
	Standard procedures of infection control II	
	Autoimmune disease	
Pharmacology	Antiretroviral therapy	
	Antibiotics Sulfonamides	
	Anticoagulants	
	drug interactions	
	obstructive pulmonary disorder	
	Heart Failure	
	Antimicrobial for fever Disease	
	Anticoagulants, fibrinolytic, thrombolytic and anti-platelet therapies	
	lipid lowering drugs and beta blockers	
	ttt of Angina	
	NSAIDs (aspirin, ibuprofen) Paracetamol	
	Immunosuppressant (corticosteroids, methotrexate)	
	Pharmacological treatment of osteoporosis	

	Opioids analgesics	
	Local anaesthetics	
General Pathology	Thrombosis and embolism	
	Ischemia and infarction	
	Nerve injury and necrosis of brain tissue	
	arthritis	
	Repair of bone fracture and osteoporosis	
PIP Course	Improvement of oral health	
	Evidence based preventive intervention	
	Guide line for PIP assignment	
	Assignment model1	
	Assignment model 2	
	Communication skills	
	Behavior modification	
	Guide line to outreach school visit	
	Critical appraising of paper I	
	Critical appraising of paper II	
	Presentation skills	
Operative Dentistry	Instrument in operative dentistry	
	Cavity classification and principles	
	Base and liners	
	Class I amalgam	
	Class II amalgam	
	Class I composit	
	Class II composit	
	Pin retained amalgam restoration	
	Class IV composit restoration	
	Amalgam restoration failure and repair	
Removable Prosthodontics)	Introduction to removable prosthodontics	
	An overview in complete denture I,II,III	
	Mandibular movement I,II	
	articulators	

	Teeth selection	
	Complete denture retention	
	Complete denture stability	
	Complete denture support	
	Diagnosis and treatment planning for the edentulous patient	
	Special impression techniques	
	Jaw relation	
	Complete denture delivery	
	Copy denture	
	Denture relining	
Endodontics	Instruments I	
	Instruments II	
	Cleaning and shaping I	
	Cleaning and shaping II	
	Evaluation of success and failure	
Dental Biomaterials	Structure of polymers	
	Mechanical properties	
	Chemical properties	
	Physical properties	
	Impression materials	
	Models and dies	
	Denture base resin	
	Denture soft liners and artificial teeth	
	Dental Amalgam	
Periodontics	plaque	
	Calculus & local predisposing factors	
	Defense mechanism of gingiva	
	Non-surgical therapy	
Oral surgery	Complication of extraction	
	Local anesthesia	
	Odontogenic development cyst	

Oral Pathology	Odontogenic tumers	
	Bone lesions	

Clinical Contents	Clinical Topics
General Anatomy	bone of thoracic cartilage & respiratory muscles
	Lung and pleura
	Liver and spleen
	major blood and lymph vessels of the body
	mediastinum
	Heart
	blood supply of the heart
	Cerebral hemispheres
	Cranial nerves
	Infratemporal fossa
	Vertebrae
	Vein and transmission of infection
General Histology	Histology of respiratory system
	Histological structure of blood cells and function
	Histological structure of the cardiovascular system
	Histological structure of the nervous system
	Histological structure of cartilage
	Histological structure of bone
physiology	pulmonary function test
	Haemoglobin determination and blood indices
	Bleeding time and clotting time
	Arterial blood pressure measurement
	ECG leads and comment
	Sensation
	Tendon jerk
Operative Dentistry	Revision on topics covered in year one
	occlusal lesion and their management Bite wing therapy
	Preparation of posterior approximal lesions and their management (I) (Composite).

	Posterior approximal lesions (II) Permanent teeth preparation (Amalgam).
	5 MOD preparation for resin composite.
	MOD preparation LR6 (amalgam).
	Auxiliary retention for amalgam restorations.
	Resin-composite core build-up, UR7 which replaces the mesio buccal cusp.
	Incisal edge restoration
	Replacement and repair of amalgam restorations
Removable Prosthodontics	Prosthodontic landmarks.
	1ry impression + special tray
	Wax occlusal rim
	Mounting
	Setting upper anterior teeth
	Setting lower anterior teeth
	Setting upper and lower posterior teeth
	Waxing up & flasking
	Diagnosis.
	1ry impression
	2ry impression
	Jaw relation
	Try-in
	Insertion
Endodontics	Endodontic Instruments and Access Cavities
	Cleaning and Shaping
	Access Maxillary Premolar
	Temporary Restorations and Rubber Dam Placement
	Obturation
	Molar Endodontics/Mandibular Molar
	Molar Endodontics/Maxillary 6th Molar
	Practical assessment. (access 8th week cavity of two different teeth)
Periodontics	
	Plaque, Periodontal Disease & Assessment
	Non-surgical periodontal therapy & hand instrumentation
	Oral Hygiene Procedures
	Non-surgical periodontal therapy & machine-driven instrumentation

Oral surgery	Local anesthesia (infiltration technique)

Course work content	Symposia	Discipline
EBL	10 cases discussed weekly each case take two weeks	All medical and dental discipline within level two
Anatomy spotter	Anatomy of head and neck	Anatomy, histology
	Histology of bone, cartilage, respiratory system, CVS, CNS, blood cells	
PIP	Improvement of oral health	Dental public health
	Evidence based preventive intervention	
	Guide line for PIP assignment	
	Assignment model1	
	Assignment model 2	
	Communication skills	
	Behavior modification	

5. Contact Hours

No	Activity	Contact Hours
1	**Lecture**	8hrs/week
2	**Laboratory/clinical (Practical)**	14hrs/week
3	**EBL**	2hrs/week
4	**Self- learning/ material collection**	4hrs/week
4	**Office hours**	2hrs/week
	Total	30hrs/week

6. Teaching and learning methods

(Alignment of Teaching Methods with ILOS)

No	Method	Basic knowledge	Intellectual Skills	Professional Skills	General Skills
1	Lectures/Symposia	√	√		
2	EBL/Problem based learning	√	√	√	√
3	Clinical / practical sessions	√		√	√
4	Seminars	√	√	√	√

7. Teaching and learning methods of disables

None

8. Student Assessments

8.1. Assessment Methods

(Alignment of Assessment Methods with ILOS)

No	Method	Basic knowledge	Intellectual Skills	Professional Skills	General Skills
1	EBL	√	√		√
2	PIP Assignments	√		√	√
3	Critical appraisal assessment	√			√
4	Outreach school visit	√		√	√
5	Oral Health presentation	√		√	√
6	Anatomy spotter exam (formative and summative	√	√		
7	MCQ Exam (Formative and Summative)	√	√		
8	SAP Exam (Formative and Summative)	√	√		
9	OSCE (formative and summative)	√	√	√	√
10	Key procedure test (KPT) as an ongoing clinical assessment	√	√	√	

8.2. Assessment length, degree, and proportion of total Assessment Score

No	Method	Week
1	EBL	At 2nd session of EBL cases (7 cases during the year)
2	PIP Assignment	the end of 1st semester
3	Critical appraisal of scientific paper	At the end of 1st semester
4	Outreach school visit	During 1st Semester
5	Formative exams (spotter, MCQ, SAP, OSCE)	At the end of 1st Semester
6	Oral health presentation	at the end of 2nd semester
7	Summative exams (Spotter, MCQ, SAP, OSCE)	At the end of year
8	Key Procedure Test (KPT) as an Ongoing clinical assessment	Continuous assessment during the year
No	**Method**	**Weight**
1	EBL	120/925=13%
2	PIP(Assignment, critical appraisal, outreach visit, oral health presentation	150/925=16.2%
	Anatomy spotter	75/925= 8.1%
3	MCQ	180/925=19.5%
4	SAP	180/925=19.5%
5	OSCE	220/925=23.7%
Total		100%

9. Learning Resources and Facilities

9.1. Learning Resources

Required Textbooks	1. **"Principles of Operative Dentistry" A J E Qualtrough, Julian Satterthwaite (Manchester University), Leean Morrow (Leeds Dental Institute) and Paul Brunton (Leeds Dental Institute). ISBN: 9781405118217 and ISBN10: 1405118210** 2. Preservation and Restoration of Tooth Structure". Graham J. Mount, W.R.Hulme. 2005. Knowledge books and Software. ISBN 1920824 74-X 3. "Operative Dentistry: A Manual Guide to Recent Innovations" by H Devlin Manchester University) Springer-Verlag Publishers, 2006. ISBN-10 3-540-29616-6 and ISBN-13 978-3-540-29616-4. 4. Human anatomy : color atlas and text book, coasling J A C 2008 5. en Cate's oral Ten Cate's oral histology: development, structure, and function - Nanci, Antonio, Ten Cate, A. R. c2013

	6. Principles of anatomy & physiology: Volume 1: Organization, support and movemenet, and control systems of the uman body - Tortora, Gerard J., Derrickson, Bryan c2011 7. essential dental public health - Daly, Blánaid, Batchelor, Paul, Treasure, Elizabeth T., Watt, Richard G. 2013
Electronic Materials	• How to read a paper: the basics of evidence-based medicine - Trisha Greenhalgh 2014 • Delivering better oral health: an evidence-based toolkit for prevention Third edition • healthy_mouth_adults_quick_guide • a quick guide for a healthy mouth in children
Other Learning Materials	

9.2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	- Classroom / EBL rooms/ Clinics / Labs
Technology Resources (AV, data show, Smart Screen, software, etc.)	- PCs + Data Show + Smart Screen
Other Resources (Specify, e.g., if specific laboratory equipment is required, list requirements or attach a list)	- Internet Connection

10. Matrix of course ILOS and the course content

Items	Details	Basic knowledge	Intellectual Skills	Professional Skills	General Skills
	General Anatomy	a.1, a.8	b.1		
	general histology	a.1, a.8	b.1		
	Physiology	a.3,a.4,a.8	b. .1,b.2		

Year Contents	Microbiology	a.5,a.6,a.11. a.12			
	Pharmacology	a.7,a.13	b.3,b.4,b.5		
	General pathology	a.3, a.4	b.2		
	pip	, a.2, a.9		c.1	d.1,d.2,d. 3, d.4
	Operative dentistry	a.10		c.2, c.6, c.8, c.10, c.18	
	Removable prosthodontics	a.10		c.2, c.3,c.4, c.7, c.8, c.11, c.14, c.15, c.18	
	endodontics			c.2, c.5, c.6, c.8, c.16, c.17, c.18	
	biomaterials	a.10		c.2	
	periodontics	a.5, a.6, a.11		c.2,c.8,c.1 2, c 18	
	Oral surgery			c.2, c.8, c.9,c.13, c.18	
Teaching and Learning Methods	Lectures/Symposia	a.1-a.13	b.1-b.5		
	EBL/Problem based learning	a.1, a.13	b.1-b.5		d.1-d.4
	Laboratory /practical	a.1, a.13		c.2-c.20	
	Clinical Sessions	a.1, a.13		c.2-c.20	
Activities and Sources of Teaching and Learning	EBL Sessions	a.1-a.13	b.1-b.5		d.1-d.4
	Research Proposal	a.3	b.2		
	Poster Presentation	a.1		c.5	d.4
Student Assessment	EBL	a.1, a.2	b.1		d.4
	\ PIP course (assignment, Outreach school visit, Critical appraisal of a scientific paper, Oral health presentation	a.2,a.9		c.1	d.1,d.2,d. 3, d.4
	Anatomy spotter exam (formative and summative exam)	a.1, a.8	b.1		

	MCQ Exam (Formative and Summative)	a. .1-a.13	b.1-b.6		
	SAP Exam (Formative and Summative)	a.5,a.6,a.10,a.11			
	OSCE (formative and summative)	a.3, a.4, a.5, a.6, a.8, a.10,a.11	b.1, b.2	c.2-c.20	
	Key Procedure Test (KPT) as an Ongoing clinical assessment	a.5,a.6,a.10,a.11	b.1, b.2	c.2-c.20	

Matrix of Year course ILOs and program ILOs:

Course ILOs	Program ILOs								
	A. Knowledge and understanding								
	A. 1	A. 2	A. 3	A. 4	A. 5	A. 6	A. 7	A. 8	
a.1	√	√			√				
a.2					√				
a.3	√								
a.4				√					
a.5			√						
a.6			√						
a.7							√		
a.8			√		√				
a.9		√		√					
a.10								√	
a.11				√					
a.12							√	√	
a.13							√	√	

B. Intellectual skills

	B.1	B.2	B.3	B.4	B.5	B.6	B.7	B.8	
b.1	√	√		√		√			
b.2	√	√							
b.3		√							
b.4					√				
b.5			√		√		√		

c. Professional and practical skills

	C.1	C.2	C.3	C.4	C.5	C.6	C.7	C.8	C.9	C.10	C.11	
c.1				√								
c.2					√	√		√				
c.3	√	√										
c.4	√	√										
c.5			√									
c.6			√									
c.7				√	√					√		
c.8					√						√	
c.9						√						
c.10							√					

c.11									√			
c.12								√				
c.13								√				
c.14		√			√				√			
c.15					√				√			
c.16							√					
c.17							√					
c.18					√					√	√	
c.19										√	√	
c.20	√	√										

d. General and transferable skills

	D. 1	D. 2	D. 3	D. 4	D. 5	D. 6	D. 7	D. 8	D. 9	D. 10	D. 11	D. 12	
d.1	√		√					√		√			
d.2		√				√				√			
d.3				√	√	√	√						
d.4				√	√	√				√			

11. Student Academic Counseling and Support

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

Year Director

Associate Prof. Dr/ **Gilan Altonbary**

Year Coordinator(s)

Dr/ **Heba Elshiekh**

Dr/ **Kholoud Ezzat**

Program Director

Prof. Dr/ Radwa Emera

Mansoura Manchester Dental Program

Year specification

2nd year

2023/2024

Year Specification

Program Name	**Mansoura Manchester Dental Program**
Program	Bachelor of Dental science-MMDP
Year Title	**2nd year MMDP**
Year Code	MMDPY2
Academic year	2023-2024

1. Course Identification

Course Title	**2nd year MMDP**
Course Code	MMDPY2
Program	Bachelor of Dental science-MMDP
Number of hours	1200 /national hours

2. Course Description & Objectives

• **Course Description**	The scientific content with different disciplines (dental and medical) provide the students with an essential and high level of communication skills and professionalism.
• **Course Objective**	By the end of this course, students will be able to; 1. Know to have a critical understanding of the complex issues involved in the scientific basis of dentistry. 2. apply intellectual skills, knowledge, and behaviors in the field of dentistry 3. Can be reflective, committed to lifelong learning

3. Intended Learning Outcomes (ILOS) of the course

a	**Knowledge and understanding**
a.1	Demonstrate knowledge of the anatomical structure of the head & neck, thorax and abdomen and an understanding of its relationship to function and be able to apply this to dentistry
a.2	Demonstrate an understanding of how changes in diet affect the progress of disease
a.3	Demonstrate the knowledge to define the mechanisms underlying diseases of the human body at an intermediate level.
a.4	Demonstrate the ability to recognize how disease is manifested and its impact on the practice of dentistry.
a.5	Demonstrate the ability to identify the nature and variety of micro organisms that interact with man in health and disease.
a.6	Demonstrate the ability to describe the impact of micro-organisms on the human body.
a.7	Demonstrate basic knowledge of the pharmaceutical agents affecting cardio respiratory and musculoskeletal systems in the human body.
a.8	Demonstrate an understanding of the control mechanisms involved in speech, mastication and deglutition.
a.9	Demonstrate an understanding the role of saliva in maintaining dental health.
a.10	Demonstrate knowledge of the properties of dental materials that they are likely to use in this stage of training.
a.11	Demonstrate the ability to describe the impact of micro-organisms on the mouth.
a.12	Demonstrate an understanding of how anti-microbial agents that a dentist can prescribe are effective in managing dental disease.
a.13	Demonstrate the ability to define the principles of action of pharmaceutical agents they are likely to encounter in providing dental treatment
b	**Intellectual skills**
b.1	Demonstrate that they can identify how cardio respiratory and musculoskeletal immune systems are regulated and integrated and demonstrate the ability to adopt a holistic approach to the practise of dentistry.
b.2	Demonstrate the ability to recognize how acute and chronic failure of cardiorespiratory and musculoskeletal immune systems may present in dental practice.
b.3	Demonstrate the knowledge to explain the action of anti-microbial agents that a dentist can prescribe.
b.4	Demonstrate an understanding of how and why pharmaceutical agents used in dental treatment are administered and the ability to prescribe these agents safely and appropriately.
b.5	Demonstrate the ability to identify effects of pharmaceutical agents used at this stage of training to treat dental disease may have on the main systems in the human body including drug interactions.
c	**Professional and Practical skills**
c.1	Demonstrate the ability to give preventive dental advice relevant to adults in a range of dental settings.
c.2	Demonstrate the ability to handle dental instruments and materials used at this stage of their training safely and in accordance with current cross infection guidelines.
c.3	Demonstrate the ability to take the history of a complaint, medical, therapeutic, dental, and social history and undertaken relevant extra intraoral oral examination in a range of clinical settings for adult patients.

c.4	Demonstrate an understanding of the significance of the complaint, medical, therapeutic, dental and social history and synthesize these to identify necessary courses of action.
c.5	Demonstrate an understanding of the indications, risks and benefits of a range of imaging techniques used in dentistry.
c.6	Demonstrate the ability to undertake and interpret common diagnostic imaging procedures applying the provisions of the Ionizing Radiation (Medical Exposure) Regulations as appropriate.
c.7	Demonstrate the ability to prepare patients, comfortably and safely in readiness for relevant dental procedures.
c.8	Demonstrate the range of skills required to work safely alongside dental care professionals including assisted operating.
c.9	Demonstrate the ability to perform the techniques required for administration of local anesthesia including regional, topical and infiltration techniques, to enable the effective delivery of dental treatment.
c.10	Demonstrate the ability to place very simple direct restorations in patients under close supervision.
c.11	Demonstrate the ability to make impressions for removable prostheses on adults using contemporary dental materials under supervision.
c.12	Demonstrate the ability to remove supra and sub-gingival plaque and calculus deposits using hand and / or mechanical instruments under close supervision.
c.13	Demonstrate that they have seen the use of forceps and elevators to remove permanent teeth.
c.14	Demonstrate that they have seen the clinical stages relating to the replacement of missing teeth using either removable or fixed prostheses.
c.15	Demonstrate the ability to perform the clinical and technical stages relating to the replacement of missing teeth using removable prostheses under close supervision.
c.16	Demonstrate that they have observed the preparation of appropriate access cavities for the treatment of single and multi-rooted permanent teeth.
c.17	Demonstrate that they have seen the preparation of root canal systems of permanent teeth ready for obturation and their obturation using contemporary materials and techniques.
c.18	Demonstrate the skills required to adopt a caring and safe approach to adult patients.
c.19	Demonstrate an awareness of medical emergencies that may occur in dental practice and demonstrate the ability to perform basic life support procedures in a simulated emergency.
c.20	Demonstrate at this stage in training the ability to recognize the results and reports of special tests commonly requested in dentistry
d	**General and transferable skills**
d.1	Demonstrate an understanding of the potential contribution of psychology to dentistry.
d.2	Demonstrate the ability to communicate effectively to deliver health education promotion to individuals and groups
d.3	Demonstrate the ability to use a word processing application on a computer to accomplish everyday tasks
d.4	Demonstrate competence in using presentation tools on a computer to accomplish tasks such as creating, formatting, modifying and preparing presentations using different slide layouts for display and printed distribution, to duplicate and move text, pictures images and charts within the presentation and between presentations and to accomplish common operations with images, charts, drawn objects and to use various slide show effects.

4. Course Content

Course Contents	Symposia	Seminars
General Anatomy	Thoracic wall	
	Lung and pleura	
	Anatomy of the hematopoietic system	
	Circulatory systems Case	
	Mediastinum	
	External features of the heart & pericardium	
	Internal features of the heart	
	Blood supply & innervation of the heart	
	Anatomy of the brain	
	Meninges and CSF	
	Anatomy of the spinal cord	
	Cranial nerves	
	Bones and joints	
	Temporal & Infratemporal fossa	
	Vertebral column	
	Trigeminal nerve	
	Nose and paranasal sinuses	
General Histology	Histology of respiratory system	
	Histological structure of blood cells and function	
	Histological structure of the cardiovascular system	
	Histological structure of the nervous system	
	Histological structure of cartilage	
	Histological structure of bone	
physiology	Mechanics of breathing & factors affecting pulmonary ventilation 17 Case 10 18	
	Functions of plasma proteins &RBCs	
	Gas exchange	
	Hemostasis	
	Properties of cardiac muscle	
	Heart rate	

	Cardiac output	
	Arterial blood pressure	
	Sensory nervous system I	
	Sensory nervous system II	
	Motor nervous system	
	Speech	
	Mastication	
	Bone I	
	Bone II	
	Pain I	
	Pain II	
	Propagation of nerve impulses	
Microbiology	Adaptive immunity	
	Autoimmunity	
	Retro viruses	
	Standard procedures of infection control I	
	Standard procedures of infection control II	
	Autoimmune disease	
Pharmacology	Antiretroviral therapy	
	Antibiotics Sulfonamides	
	Anticoagulants	
	drug interactions	
	obstructive pulmonary disorder	
	Heart Failure	
	Antimicrobial for fever Disease	
	Anticoagulants, fibrinolytic, thrombolytic and anti-platelet therapies	
	lipid lowering drugs and beta blockers	
	ttt of Angina	
	NSAIDs (aspirin, ibuprofen) Paracetamol	
	Immunosuppressant (corticosteroids, methotrexate)	
	Pharmacological treatment of osteoporosis	

	Opioids analgesics	
	Local anaesthetics	
General Pathology	Thrombosis and embolism	
	Ischemia and infarction	
	Nerve injury and necrosis of brain tissue	
	arthritis	
	Repair of bone fracture and osteoporosis	
PIP Course	Improvement of oral health	
	Evidence based preventive intervention	
	Guide line for PIP assignment	
	Assignment model1	
	Assignment model 2	
	Communication skills	
	Behavior modification	
	Guide line to outreach school visit	
	Critical appraising of paper I	
	Critical appraising of paper II	
	Presentation skills	
Operative Dentistry	Instrument in operative dentistry	
	Cavity classification and principles	
	Base and liners	
	Class I amalgam	
	Class II amalgam	
	Class I composit	
	Class II composit	
	Pin retained amalgam restoration	
	Class IV composit restoration	
	Amalgam restoration failure and repair	
Removable Prosthodontics)	Introduction to removable prosthodontics	
	An overview in complete denture I,II,III	
	Mandibular movement I,II	
	articulators	

	Teeth selection	
	Complete denture retention	
	Complete denture stability	
	Complete denture support	
	Diagnosis and treatment planning for the edentulous patient	
	Special impression techniques	
	Jaw relation	
	Complete denture delivery	
	Copy denture	
	Denture relining	
Endodontics	Instruments I	
	Instruments II	
	Cleaning and shaping I	
	Cleaning and shaping II	
	Evaluation of success and failure	
Dental Biomaterials	Structure of polymers	
	Mechanical properties	
	Chemical properties	
	Physical properties	
	Impression materials	
	Models and dies	
	Denture base resin	
	Denture soft liners and artificial teeth	
	Dental Amalgam	
Periodontics	plaque	
	Calculus & local predisposing factors	
	Defense mechanism of gingiva	
	Non-surgical therapy	
Oral surgery	Complication of extraction	
	Local anesthesia	
	Odontogenic development cyst	

Oral Pathology	Odontogenic tumers	
	Bone lesions	

Clinical Contents	Clinical Topics
General Anatomy	bone of thoracic cartilage & respiratory muscles
	Lung and pleura
	Liver and spleen
	major blood and lymph vessels of the body
	mediastinum
	Heart
	blood supply of the heart
	Cerebral hemispheres
	Cranial nerves
	Infratemporal fossa
	Vertebrae
	Vein and transmission of infection
General Histology	Histology of respiratory system
	Histological structure of blood cells and function
	Histological structure of the cardiovascular system
	Histological structure of the nervous system
	Histological structure of cartilage
	Histological structure of bone
physiology	pulmonary function test
	Haemoglobin determination and blood indices
	Bleeding time and clotting time
	Arterial blood pressure measurement
	ECG leads and comment
	Sensation
	Tendon jerk
Operative Dentistry	Revision on topics covered in year one
	occlusal lesion and their management Bite wing therapy
	Preparation of posterior approximal lesions and their management (I) (Composite).

	Posterior approximal lesions (II) Permanent teeth preparation (Amalgam).
	5 MOD preparation for resin composite.
	MOD preparation LR6 (amalgam).
	Auxiliary retention for amalgam restorations.
	Resin-composite core build-up, UR7 which replaces the mesio buccal cusp.
	Incisal edge restoration
	Replacement and repair of amalgam restorations
Removable Prosthodontics	Prosthodontic landmarks.
	1ry impression + special tray
	Wax occlusal rim
	Mounting
	Setting upper anterior teeth
	Setting lower anterior teeth
	Setting upper and lower posterior teeth
	Waxing up & flasking
	Diagnosis.
	1ry impression
	2ry impression
	Jaw relation
	Try-in
	Insertion
Endodontics	Endodontic Instruments and Access Cavities
	Cleaning and Shaping
	Access Maxillary Premolar
	Temporary Restorations and Rubber Dam Placement
	Obturation
	Molar Endodontics/Mandibular Molar
	Molar Endodontics/Maxillary 6th Molar
	Practical assessment. (access 8th week cavity of two different teeth)
Periodontics	
	Plaque, Periodontal Disease & Assessment
	Non-surgical periodontal therapy & hand instrumentation
	Oral Hygiene Procedures
	Non-surgical periodontal therapy & machine-driven instrumentation

Oral surgery	Local anesthesia (infiltration technique)

Course work content	Symposia	Discipline
EBL	10 cases discussed weekly each case take two weeks	All medical and dental discipline within level two
Anatomy spotter	Anatomy of head and neck	Anatomy, histology
	Histology of bone, cartilage, respiratory system, CVS, CNS, blood cells	
PIP	Improvement of oral health	Dental public health
	Evidence based preventive intervention	
	Guide line for PIP assignment	
	Assignment model1	
	Assignment model 2	
	Communication skills	
	Behavior modification	

5. Contact Hours

No	Activity	Contact Hours
1	**Lecture**	8hrs/week
2	**Laboratory/clinical (Practical)**	14hrs/week
3	**EBL**	2hrs/week
4	**Self- learning/ material collection**	4hrs/week
4	**Office hours**	2hrs/week
	Total	30hrs/week

6. Teaching and learning methods

(Alignment of Teaching Methods with ILOS)

No	Method	Basic knowledge	Intellectual Skills	Professional Skills	General Skills
1	Lectures/Symposia	√	√		
2	EBL/Problem based learning	√	√	√	√
3	Clinical / practical sessions	√		√	√
4	Seminars	√	√	√	√

7. Teaching and learning methods of disables

None

8. Student Assessments

8.1. Assessment Methods

(Alignment of Assessment Methods with ILOS)

No	Method	Basic knowledge	Intellectual Skills	Professional Skills	General Skills
1	EBL	√	√		√
2	PIP Assignments	√		√	√
3	Critical appraisal assessment	√			√
4	Outreach school visit	√		√	√
5	Oral Health presentation	√		√	√
6	Anatomy spotter exam (formative and summative	√	√		
7	MCQ Exam (Formative and Summative)	√	√		
8	SAP Exam (Formative and Summative)	√	√		
9	OSCE (formative and summative)	√	√	√	√
10	Key procedure test (KPT) as an ongoing clinical assessment	√	√	√	

8.2. Assessment length, degree, and proportion of total Assessment Score

No	Method	Week
1	EBL	At 2nd session of EBL cases (7 cases during the year)
2	PIP Assignment	the end of 1st semester
3	Critical appraisal of scientific paper	At the end of 1st semester
4	Outreach school visit	During 1st Semester
5	Formative exams (spotter, MCQ, SAP, OSCE)	At the end of 1st Semester
6	Oral health presentation	at the end of 2nd semester
7	Summative exams (Spotter, MCQ, SAP, OSCE)	At the end of year
8	Key Procedure Test (KPT) as an Ongoing clinical assessment	Continuous assessment during the year
No	**Method**	**Weight**
1	EBL	120/925=13%
2	PIP(Assignment, critical appraisal, outreach visit, oral health presentation	150/925=16.2%
	Anatomy spotter	75/925= 8.1%
3	MCQ	180/925=19.5%
4	SAP	180/925=19.5%
5	OSCE	220/925=23.7%
Total		100%

9. Learning Resources and Facilities

9.1. Learning Resources

Required Textbooks	1. **"Principles of Operative Dentistry" A J E Qualtrough, Julian Satterthwaite (Manchester University), Leean Morrow (Leeds Dental Institute) and Paul Brunton (Leeds Dental Institute). ISBN: 9781405118217 and ISBN10: 1405118210** 2. Preservation and Restoration of Tooth Structure". Graham J. Mount, W.R.Hulme. 2005. Knowledge books and Software. ISBN 1920824 74-X 3. "Operative Dentistry: A Manual Guide to Recent Innovations" by H Devlin Manchester University) Springer-Verlag Publishers, 2006. ISBN-10 3-540-29616-6 and ISBN-13 978-3-540-29616-4. 4. Human anatomy : color atlas and text book, coasling J A C 2008 5. en Cate's oral Ten Cate's oral histology: development, structure, and function - Nanci, Antonio, Ten Cate, A. R. c2013

	6. Principles of anatomy & physiology: Volume 1: Organization, support and movemenet, and control systems of the uman body - Tortora, Gerard J., Derrickson, Bryan c2011 7. essential dental public health - Daly, Blánaid, Batchelor, Paul, Treasure, Elizabeth T., Watt, Richard G. 2013
Electronic Materials	• How to read a paper: the basics of evidence-based medicine - Trisha Greenhalgh 2014 • Delivering better oral health: an evidence-based toolkit for prevention Third edition • healthy_mouth_adults_quick_guide • a quick guide for a healthy mouth in children
Other Learning Materials	

9.2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	- Classroom / EBL rooms/ Clinics / Labs
Technology Resources (AV, data show, Smart Screen, software, etc.)	- PCs + Data Show + Smart Screen
Other Resources (Specify, e.g., if specific laboratory equipment is required, list requirements or attach a list)	- Internet Connection

10. Matrix of course ILOS and the course content

Items	Details	Basic knowledge	Intellectual Skills	Professional Skills	General Skills
	General Anatomy	a.1, a.8	b.1		
	general histology	a.1, a.8	b.1		
	Physiology	a.3,a.4,a.8	b. .1,b.2		

Year Contents	Microbiology	a.5,a.6,a.11. a.12			
	Pharmacology	a.7,a.13	b.3,b.4,b.5		
	General pathology	a.3, a.4	b.2		
	pip	, a.2, a.9		c.1	d.1,d.2,d. 3, d.4
	Operative dentistry	a.10		c.2, c.6, c.8, c.10, c.18	
	Removable prosthodontics	a.10		c.2, c.3,c.4, c.7, c.8, c.11, c.14, c.15, c.18	
	endodontics			c.2, c.5, c.6, c.8, c.16, c.17, c.18	
	biomaterials	a.10		c.2	
	periodontics	a.5, a.6, a.11		c.2,c.8,c.1 2, c 18	
	Oral surgery			c.2, c.8, c.9,c.13, c.18	
Teaching and Learning Methods	Lectures/Symposia	a.1-a.13	b.1-b.5		
	EBL/Problem based learning	a.1, a.13	b.1-b.5		d.1-d.4
	Laboratory /practical	a.1, a.13		c.2-c.20	
	Clinical Sessions	a.1, a.13		c.2-c.20	
Activities and Sources of Teaching and Learning	EBL Sessions	a.1-a.13	b.1-b.5		d.1-d.4
	Research Proposal	a.3	b.2		
	Poster Presentation	a.1		c.5	d.4
Student Assessment	EBL	a.1, a.2	b.1		d.4
	\ PIP course (assignment, Outreach school visit, Critical appraisal of a scientific paper, Oral health presentation	a.2,a.9		c.1	d.1,d.2,d. 3, d.4
	Anatomy spotter exam (formative and summative exam)	a.1, a.8	b.1		

	MCQ Exam (Formative and Summative)	a. .1-a.13	b.1-b.6		
	SAP Exam (Formative and Summative)	a.5,a.6,a.10,a.11			
	OSCE (formative and summative)	a.3, a.4, a.5, a.6, a.8, a.10,a.11	b.1, b.2	c.2-c.20	
	Key Procedure Test (KPT) as an Ongoing clinical assessment	a.5,a.6,a.10,a.11	b.1, b.2	c.2-c.20	

Matrix of Year course ILOs and program ILOs:

Course ILOs	Program ILOs								
	A. Knowledge and understanding								
	A. 1	A. 2	A. 3	A. 4	A. 5	A. 6	A. 7	A. 8	
a.1	√	√			√				
a.2					√				
a.3	√								
a.4				√					
a.5			√						
a.6			√						
a.7							√		
a.8			√		√				
a.9		√		√					
a.10								√	
a.11				√					
a.12							√	√	
a.13							√	√	

B. Intellectual skills

	B.1	B.2	B.3	B.4	B.5	B.6	B.7	B.8	
b.1	√	√		√		√			
b.2	√	√							
b.3		√							
b.4					√				
b.5			√		√		√		

c. Professional and practical skills

	C.1	C.2	C.3	C.4	C.5	C.6	C.7	C.8	C.9	C.10	C.11	
c.1				√								
c.2					√	√		√				
c.3	√	√										
c.4	√	√										
c.5			√									
c.6			√									
c.7				√	√					√		
c.8					√						√	
c.9						√						
c.10							√					

c.11									√			
c.12								√				
c.13								√				
c.14		√			√				√			
c.15					√				√			
c.16							√					
c.17							√					
c.18					√					√	√	
c.19										√	√	
c.20	√	√										

d. General and transferable skills

	D. 1	D. 2	D. 3	D. 4	D. 5	D. 6	D. 7	D. 8	D. 9	D. 10	D. 11	D. 12	
d.1	√		√					√		√			
d.2		√				√				√			
d.3				√	√	√	√						
d.4				√	√	√				√			

11. Student Academic Counseling and Support

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

Year Director

Associate Prof. Dr/ **Rasha Elmaghraby**

Year Coordinator(s)

Dr/ **Gilan Altonbary**

Dr/ **Heba Elshiekh**

Program Director

Prof. Dr/ Radwa Emera

Mansoura Manchester Dental Program

Year specification

2nd year

2022/2023

Year Specification

Program Name	**Mansoura Manchester Dental Program**
Program	Bachelor of Dental science-MMDP
Year Title	**2nd year MMDP**
Year Code	MMDPY2
Academic year	2022-2023

1. Course Identification

Course Title	**2nd year MMDP**
Course Code	MMDPY2
Program	Bachelor of Dental science-MMDP
Number of hours	1200 /national hours

2. Course Description & Objectives

• **Course Description**	The scientific content with different disciplines (dental and medical) provide the students with an essential and high level of communication skills and professionalism.
• **Course Objective**	By the end of this course, students will be able to; 1. Know to have a critical understanding of the complex issues involved in the scientific basis of dentistry. 2. apply intellectual skills, knowledge, and behaviors in the field of dentistry 3. Can be reflective, committed to lifelong learning

3. Intended Learning Outcomes (ILOS) of the course

a	**Knowledge and understanding**
a.1	Demonstrate knowledge of the anatomical structure of the head & neck, thorax and abdomen and an understanding of its relationship to function and be able to apply this to dentistry
a.2	Demonstrate an understanding of how changes in diet affect the progress of disease
a.3	Demonstrate the knowledge to define the mechanisms underlying diseases of the human body at an intermediate level.
a.4	Demonstrate the ability to recognize how disease is manifested and its impact on the practice of dentistry.
a.5	Demonstrate the ability to identify the nature and variety of micro organisms that interact with man in health and disease.
a.6	Demonstrate the ability to describe the impact of micro-organisms on the human body.
a.7	Demonstrate basic knowledge of the pharmaceutical agents affecting cardio respiratory and musculoskeletal systems in the human body.
a.8	Demonstrate an understanding of the control mechanisms involved in speech, mastication and deglutition.
a.9	Demonstrate an understanding the role of saliva in maintaining dental health.
a.10	Demonstrate knowledge of the properties of dental materials that they are likely to use in this stage of training.
a.11	Demonstrate the ability to describe the impact of micro-organisms on the mouth.
a.12	Demonstrate an understanding of how anti-microbial agents that a dentist can prescribe are effective in managing dental disease.
a.13	Demonstrate the ability to define the principles of action of pharmaceutical agents they are likely to encounter in providing dental treatment
b	**Intellectual skills**
b.1	Demonstrate that they can identify how cardio respiratory and musculoskeletal immune systems are regulated and integrated and demonstrate the ability to adopt a holistic approach to the practise of dentistry.
b.2	Demonstrate the ability to recognize how acute and chronic failure of cardiorespiratory and musculoskeletal immune systems may present in dental practice.
b.3	Demonstrate the knowledge to explain the action of anti-microbial agents that a dentist can prescribe.
b.4	Demonstrate an understanding of how and why pharmaceutical agents used in dental treatment are administered and the ability to prescribe these agents safely and appropriately.
b.5	Demonstrate the ability to identify effects of pharmaceutical agents used at this stage of training to treat dental disease may have on the main systems in the human body including drug interactions.
c	**Professional and Practical skills**
c.1	Demonstrate the ability to give preventive dental advice relevant to adults in a range of dental settings.
c.2	Demonstrate the ability to handle dental instruments and materials used at this stage of their training safely and in accordance with current cross infection guidelines.
c.3	Demonstrate the ability to take the history of a complaint, medical, therapeutic, dental, and social history and undertaken relevant extra intraoral oral examination in a range of clinical settings for adult patients.

c.4	Demonstrate an understanding of the significance of the complaint, medical, therapeutic, dental and social history and synthesize these to identify necessary courses of action.
c.5	Demonstrate an understanding of the indications, risks and benefits of a range of imaging techniques used in dentistry.
c.6	Demonstrate the ability to undertake and interpret common diagnostic imaging procedures applying the provisions of the Ionizing Radiation (Medical Exposure) Regulations as appropriate.
c.7	Demonstrate the ability to prepare patients, comfortably and safely in readiness for relevant dental procedures.
c.8	Demonstrate the range of skills required to work safely alongside dental care professionals including assisted operating.
c.9	Demonstrate the ability to perform the techniques required for administration of local anesthesia including regional, topical and infiltration techniques, to enable the effective delivery of dental treatment.
c.10	Demonstrate the ability to place very simple direct restorations in patients under close supervision.
c.11	Demonstrate the ability to make impressions for removable prostheses on adults using contemporary dental materials under supervision.
c.12	Demonstrate the ability to remove supra and sub-gingival plaque and calculus deposits using hand and / or mechanical instruments under close supervision.
c.13	Demonstrate that they have seen the use of forceps and elevators to remove permanent teeth.
c.14	Demonstrate that they have seen the clinical stages relating to the replacement of missing teeth using either removable or fixed prostheses.
c.15	Demonstrate the ability to perform the clinical and technical stages relating to the replacement of missing teeth using removable prostheses under close supervision.
c.16	Demonstrate that they have observed the preparation of appropriate access cavities for the treatment of single and multi-rooted permanent teeth.
c.17	Demonstrate that they have seen the preparation of root canal systems of permanent teeth ready for obturation and their obturation using contemporary materials and techniques.
c.18	Demonstrate the skills required to adopt a caring and safe approach to adult patients.
c.19	Demonstrate an awareness of medical emergencies that may occur in dental practice and demonstrate the ability to perform basic life support procedures in a simulated emergency.
c.20	Demonstrate at this stage in training the ability to recognize the results and reports of special tests commonly requested in dentistry
d	**General and transferable skills**
d.1	Demonstrate an understanding of the potential contribution of psychology to dentistry.
d.2	Demonstrate the ability to communicate effectively to deliver health education promotion to individuals and groups
d.3	Demonstrate the ability to use a word processing application on a computer to accomplish everyday tasks
d.4	Demonstrate competence in using presentation tools on a computer to accomplish tasks such as creating, formatting, modifying and preparing presentations using different slide layouts for display and printed distribution, to duplicate and move text, pictures images and charts within the presentation and between presentations and to accomplish common operations with images, charts, drawn objects and to use various slide show effects.

4. Course Content

Course Contents	Symposia	Seminars
General Anatomy	Thoracic wall	
	Lung and pleura	
	Anatomy of the hematopoietic system	
	Circulatory systems Case	
	Mediastinum	
	External features of the heart & pericardium	
	Internal features of the heart	
	Blood supply & innervation of the heart	
	Anatomy of the brain	
	Meninges and CSF	
	Anatomy of the spinal cord	
	Cranial nerves	
	Bones and joints	
	Temporal & Infratemporal fossa	
	Vertebral column	
	Trigeminal nerve	
	Nose and paranasal sinuses	
General Histology	Histology of respiratory system	
	Histological structure of blood cells and function	
	Histological structure of the cardiovascular system	
	Histological structure of the nervous system	
	Histological structure of cartilage	
	Histological structure of bone	
physiology	Mechanics of breathing & factors affecting pulmonary ventilation 17 Case 10 18	
	Functions of plasma proteins &RBCs	
	Gas exchange	
	Hemostasis	
	Properties of cardiac muscle	
	Heart rate	

	Cardiac output	
	Arterial blood pressure	
	Sensory nervous system I	
	Sensory nervous system II	
	Motor nervous system	
	Speech	
	Mastication	
	Bone I	
	Bone II	
	Pain I	
	Pain II	
	Propagation of nerve impulses	
Microbiology	Adaptive immunity	
	Autoimmunity	
	Retro viruses	
	Standard procedures of infection control I	
	Standard procedures of infection control II	
	Autoimmune disease	
Pharmacology	Antiretroviral therapy	
	Antibiotics Sulfonamides	
	Anticoagulants	
	drug interactions	
	obstructive pulmonary disorder	
	Heart Failure	
	Antimicrobial for fever Disease	
	Anticoagulants, fibrinolytic, thrombolytic and anti-platelet therapies	
	lipid lowering drugs and beta blockers	
	ttt of Angina	
	NSAIDs (aspirin, ibuprofen) Paracetamol	
	Immunosuppressant (corticosteroids, methotrexate)	
	Pharmacological treatment of osteoporosis	

	Opioids analgesics	
	Local anaesthetics	
General Pathology	Thrombosis and embolism	
	Ischemia and infarction	
	Nerve injury and necrosis of brain tissue	
	arthritis	
	Repair of bone fracture and osteoporosis	
PIP Course	Improvement of oral health	
	Evidence based preventive intervention	
	Guide line for PIP assignment	
	Assignment model1	
	Assignment model 2	
	Communication skills	
	Behavior modification	
	Guide line to outreach school visit	
	Critical appraising of paper I	
	Critical appraising of paper II	
	Presentation skills	
Operative Dentistry	Instrument in operative dentistry	
	Cavity classification and principles	
	Base and liners	
	Class I amalgam	
	Class II amalgam	
	Class I composit	
	Class II composit	
	Pin retained amalgam restoration	
	Class IV composit restoration	
	Amalgam restoration failure and repair	
Removable Prosthodontics)	Introduction to removable prosthodontics	
	An overview in complete denture I,II,III	
	Mandibular movement I,II	
	articulators	

	Teeth selection	
	Complete denture retention	
	Complete denture stability	
	Complete denture support	
	Diagnosis and treatment planning for the edentulous patient	
	Special impression techniques	
	Jaw relation	
	Complete denture delivery	
	Copy denture	
	Denture relining	
Endodontics	Instruments I	
	Instruments II	
	Cleaning and shaping I	
	Cleaning and shaping II	
	Evaluation of success and failure	
Dental Biomaterials	Structure of polymers	
	Mechanical properties	
	Chemical properties	
	Physical properties	
	Impression materials	
	Models and dies	
	Denture base resin	
	Denture soft liners and artificial teeth	
	Dental Amalgam	
Periodontics	plaque	
	Calculus & local predisposing factors	
	Defense mechanism of gingiva	
	Non-surgical therapy	
Oral surgery	Complication of extraction	
	Local anesthesia	

Clinical Contents	Clinical Topics
General Anatomy	bone of thoracic cartilage & respiratory muscles
	Lung and pleura
	Liver and spleen
	major blood and lymph vessels of the body
	mediastinum
	Heart
	blood supply of the heart
	Cerebral hemispheres
	Cranial nerves
	Infratemporal fossa
	Vertebrae
	Vein and transmission of infection
General Histology	Histology of respiratory system
	Histological structure of blood cells and function
	Histological structure of the cardiovascular system
	Histological structure of the nervous system
	Histological structure of cartilage
	Histological structure of bone
physiology	pulmonary function test
	Haemoglobin determination and blood indices
	Bleeding time and clotting time
	Arterial blood pressure measurement
	ECG leads and comment
	Sensation
	Tendon jerk
Operative Dentistry	Revision on topics covered in year one
	occlusal lesion and their management Bite wing therapy
	Preparation of posterior approximal lesions and their management (I) (Composite).
	Posterior approximal lesions (II) Permanent teeth preparation (Amalgam).
	5 MOD preparation for resin composite.
	MOD preparation LR6 (amalgam).
	Auxiliary retention for amalgam restorations.
	Resin-composite core build-up, UR7 which replaces the mesio buccal cusp.

	Incisal edge restoration
	Replacement and repair of amalgam restorations
Removable Prosthodontics	Prosthodontic landmarks.
	1ry impression + special tray
	Wax occlusal rim
	Mounting
	Setting upper anterior teeth
	Setting lower anterior teeth
	Setting upper and lower posterior teeth
	Waxing up & flasking
	Diagnosis.
	1ry impression
	2ry impression
	Jaw relation
	Try-in
	Insertion
Endodontics	Endodontic Instruments and Access Cavities
	Cleaning and Shaping
	Access Maxillary Premolar
	Temporary Restorations and Rubber Dam Placement
	Obturation
	Molar Endodontics/Mandibular Molar
	Molar Endodontics/Maxillary 6th Molar
	Practical assessment. (access 8th week cavity of two different teeth)
Periodontics	
	Plaque, Periodontal Disease & Assessment
	Non-surgical periodontal therapy & hand instrumentation
	Oral Hygiene Procedures
	Non-surgical periodontal therapy & machine-driven instrumentation
Oral surgery	Local anesthesia (infiltration technique)

Course work content	Symposia	Discipline
EBL	10 cases discussed weekly each case take two weeks	All medical and dental discipline within level two
Anatomy spotter	Anatomy of head and neck	Anatomy, histology
	Histology of bone, cartilage, respiratory system, CVS, CNS, blood cells	
PIP	Improvement of oral health	Dental public health
	Evidence based preventive intervention	
	Guide line for PIP assignment	
	Assignment model1	
	Assignment model 2	
	Communication skills	
	Behavior modification	

5. Contact Hours

No	Activity	Contact Hours
1	**Lecture**	8hrs/week
2	**Laboratory/clinical (Practical)**	14hrs/week
3	**EBL**	2hrs/week
4	**Self- learning/ material collection**	4hrs/week
4	**Office hours**	2hrs/week
	Total	30hrs/week

6. Teaching and learning methods

(Alignment of Teaching Methods with ILOS)

No	Method	Basic knowledge	Intellectual Skills	Professional Skills	General Skills
1	Lectures/Symposia	√	√		
2	EBL/Problem based learning	√	√	√	√
3	Clinical / practical sessions	√		√	√
4	Seminars	√	√	√	√

7. Teaching and learning methods of disables

None

8. Student Assessments

8.1. Assessment Methods

(Alignment of Assessment Methods with ILOS)

No	Method	Basic knowledge	Intellectual Skills	Professional Skills	General Skills
1	EBL	√	√		√
2	PIP Assignments	√		√	√
3	Critical appraisal assessment	√			√
4	Outreach school visit	√		√	√
5	Oral Health presentation	√		√	√
6	Anatomy spotter exam (formative and summative	√	√		
7	MCQ Exam (Formative and Summative)	√	√		
8	SAP Exam (Formative and Summative)	√	√		
9	OSCE (formative and summative)	√	√	√	√
10	Key procedure test (KPT) as an ongoing clinical assessment	√	√	√	

8.2. Assessment length, degree, and proportion of total Assessment Score

No	Method	Week
1	EBL	At 2nd session of EBL cases (7 cases during the year)
2	PIP Assignment	the end of 1st semester
3	Critical appraisal of scientific paper	At the end of 1st semester
4	Outreach school visit	During 1st Semester
5	Formative exams (spotter, MCQ, SAP, OSCE)	At the end of 1st Semester
6	Oral health presentation	at the end of 2nd semester
7	Summative exams (Spotter, MCQ, SAP, OSCE)	At the end of year
8	Key Procedure Test (KPT) as an Ongoing clinical assessment	Continuous assessment during the year
No	**Method**	**Weight**
1	EBL	120/925=13%
2	PIP(Assignment, critical appraisal, outreach visit, oral health presentation	150/925=16.2%
	Anatomy spotter	75/925= 8.1%
3	MCQ	180/925=19.5%
4	SAP	180/925=19.5%
5	OSCE	220/925=23.7%
Total		100%

9. Learning Resources and Facilities

9.1. Learning Resources

Required Textbooks	1. **"Principles of Operative Dentistry" A J E Qualtrough, Julian Satterthwaite (Manchester University), Leean Morrow (Leeds Dental Institute) and Paul Brunton (Leeds Dental Institute). ISBN: 9781405118217 and ISBN10: 1405118210** 2. Preservation and Restoration of Tooth Structure". Graham J. Mount, W.R.Hulme. 2005. Knowledge books and Software. ISBN 1920824 74-X 3. "Operative Dentistry: A Manual Guide to Recent Innovations" by H Devlin Manchester University) Springer-Verlag Publishers, 2006. ISBN-10 3-540-29616-6 and ISBN-13 978-3-540-29616-4. 4. Human anatomy : color atlas and text book, coasling J A C 2008 5. en Cate's oral Ten Cate's oral histology: development, structure, and function - Nanci, Antonio, Ten Cate, A. R. c2013

	6. Principles of anatomy & physiology: Volume 1: Organization, support and movemenet, and control systems of the uman body - Tortora, Gerard J., Derrickson, Bryan c2011 7. essential dental public health - Daly, Blánaid, Batchelor, Paul, Treasure, Elizabeth T., Watt, Richard G. 2013
Electronic Materials	• How to read a paper: the basics of evidence-based medicine - Trisha Greenhalgh 2014 • Delivering better oral health: an evidence-based toolkit for prevention Third edition • healthy_mouth_adults_quick_guide • a quick guide for a healthy mouth in children
Other Learning Materials	

9.2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	- Classroom / EBL rooms/ Clinics / Labs
Technology Resources (AV, data show, Smart Screen, software, etc.)	- PCs + Data Show + Smart Screen
Other Resources (Specify, e.g., if specific laboratory equipment is required, list requirements or attach a list)	- Internet Connection

10. Matrix of course ILOS and the course content

Items	Details	Basic knowledge	Intellectual Skills	Professional Skills	General Skills
	General Anatomy	a.1, a.8	b.1		
	general histology	a.1, a.8	b.1		
	Physiology	a.3,a.4,a.8	b. .1,b.2		

Year Contents	Microbiology	a.5,a.6,a.11. a.12			
	Pharmacology	a.7,a.13	b.3,b.4,b.5		
	General pathology	a.3, a.4	b.2		
	pip	, a.2, a.9		c.1	d.1,d.2,d. 3, d.4
	Operative dentistry	a.10		c.2, c.6, c.8, c.10, c.18	
	Removable prosthodontics	a.10		c.2, c.3,c.4, c.7, c.8, c.11, c.14, c.15, c.18	
	endodontics			c.2, c.5, c.6, c.8, c.16, c.17, c.18	
	biomaterials	a.10		c.2	
	periodontics	a.5, a.6, a.11		c.2,c.8,c.1 2, c 18	
	Oral surgery			c.2, c.8, c.9,c.13, c.18	
Teaching and Learning Methods	Lectures/Symposia	a.1-a.13	b.1-b.5		
	EBL/Problem based learning	a.1, a.13	b.1-b.5		d.1-d.4
	Laboratory /practical	a.1, a.13		c.2-c.20	
	Clinical Sessions	a.1, a.13		c.2-c.20	
Activities and Sources of Teaching and Learning	EBL Sessions	a.1-a.13	b.1-b.5		d.1-d.4
	Research Proposal	a.3	b.2		
	Poster Presentation	a.1		c.5	d.4
Student Assessment	EBL	a.1, a.2	b.1		d.4
	\ PIP course (assignment, Outreach school visit, Critical appraisal of a scientific paper, Oral health presentation	a.2,a.9		c.1	d.1,d.2,d. 3, d.4
	Anatomy spotter exam (formative and summative exam)	a.1, a.8	b.1		

	MCQ Exam (Formative and Summative)	a. .1-a.13	b.1-b.6		
	SAP Exam (Formative and Summative)	a.5,a.6,a.10,a.11			
	OSCE (formative and summative)	a.3, a.4, a.5, a.6, a.8, a.10,a.11	b.1, b.2	c.2-c.20	
	Key Procedure Test (KPT) as an Ongoing clinical assessment	a.5,a.6,a.10,a.11	b.1, b.2	c.2-c.20	

Matrix of Year course ILOs and program ILOs:

Course ILOs	Program ILOs								
	A. Knowledge and understanding								
	A. 1	A. 2	A. 3	A. 4	A. 5	A. 6	A. 7	A. 8	
a.1	√	√			√				
a.2					√				
a.3	√								
a.4				√					
a.5			√						
a.6			√						
a.7							√		
a.8			√		√				
a.9		√		√					
a.10								√	
a.11				√					
a.12							√	√	
a.13							√	√	

B. Intellectual skills

	B.1	B.2	B.3	B.4	B.5	B.6	B.7	B.8	
b.1	√	√		√		√			
b.2	√	√							
b.3		√							
b.4					√				
b.5			√		√		√		

c. Professional and practical skills

	C.1	C.2	C.3	C.4	C.5	C.6	C.7	C.8	C.9	C.10	C.11	
c.1				√								
c.2					√	√		√				
c.3	√	√										
c.4	√	√										
c.5			√									
c.6			√									
c.7				√	√					√		
c.8					√						√	
c.9						√						
c.10							√					

c.11									√			
c.12								√				
c.13								√				
c.14		√			√				√			
c.15					√				√			
c.16							√					
c.17							√					
c.18					√					√	√	
c.19										√	√	
c.20	√	√										

d. General and transferable skills

	D. 1	D. 2	D. 3	D. 4	D. 5	D. 6	D. 7	D. 8	D. 9	D. 10	D. 11	D. 12	
d.1	√		√					√		√			
d.2		√				√				√			
d.3				√	√	√	√						
d.4				√	√	√				√			

11. Student Academic Counseling and Support

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

Year Director

Associate Prof. Dr/ **Rasha Elmaghraby**

Year Coordinator(s)

Assoc.Prof. Dr/ **Gilan Altonbary**

Dr/ **Heba Elshiekh**

Program Director

Prof. Abeer Abdelatif

Mansoura Manchester Dental Program

Year specification

2nd year

2021/2022

Year Specification

Program Name	**Mansoura Manchester Dental Program**
Program	Bachelor of Dental science-MMDP
Year Title	**2nd year MMDP**
Year Code	MMDPY2
Academic year	2021-2022

1. Course Identification

Course Title	**2nd year MMDP**
Course Code	MMDPY2
Program	Bachelor of Dental science-MMDP
Number of hours	1200 /national hours

2. Course Description & Objectives

• **Course Description**	The scientific content with different disciplines (dental and medical) provide the students with an essential and high level of communication skills and professionalism.
• **Course Objective**	By the end of this course, students will be able to; 1. Know to have a critical understanding of the complex issues involved in the scientific basis of dentistry. 2. apply intellectual skills, knowledge, and behaviors in the field of dentistry 3. Can be reflective, committed to lifelong learning

3. Intended Learning Outcomes (ILOS) of the course

a	**Knowledge and understanding**
a.1	Demonstrate knowledge of the anatomical structure of the head & neck, thorax and abdomen and an understanding of its relationship to function and be able to apply this to dentistry
a.2	Demonstrate an understanding of how changes in diet affect the progress of disease
a.3	Demonstrate the knowledge to define the mechanisms underlying diseases of the human body at an intermediate level.
a.4	Demonstrate the ability to recognize how disease is manifested and its impact on the practice of dentistry.
a.5	Demonstrate the ability to identify the nature and variety of micro organisms that interact with man in health and disease.
a.6	Demonstrate the ability to describe the impact of micro-organisms on the human body.
a.7	Demonstrate basic knowledge of the pharmaceutical agents affecting cardio respiratory and musculoskeletal systems in the human body.
a.8	Demonstrate an understanding of the control mechanisms involved in speech, mastication and deglutition.
a.9	Demonstrate an understanding the role of saliva in maintaining dental health.
a.10	Demonstrate knowledge of the properties of dental materials that they are likely to use in this stage of training.
a.11	Demonstrate the ability to describe the impact of micro-organisms on the mouth.
a.12	Demonstrate an understanding of how anti-microbial agents that a dentist can prescribe are effective in managing dental disease.
a.13	Demonstrate the ability to define the principles of action of pharmaceutical agents they are likely to encounter in providing dental treatment
b	**Intellectual skills**
b.1	Demonstrate that they can identify how cardio respiratory and musculoskeletal immune systems are regulated and integrated and demonstrate the ability to adopt a holistic approach to the practise of dentistry.
b.2	Demonstrate the ability to recognize how acute and chronic failure of cardiorespiratory and musculoskeletal immune systems may present in dental practice.
b.3	Demonstrate the knowledge to explain the action of anti-microbial agents that a dentist can prescribe.
b.4	Demonstrate an understanding of how and why pharmaceutical agents used in dental treatment are administered and the ability to prescribe these agents safely and appropriately.
b.5	Demonstrate the ability to identify effects of pharmaceutical agents used at this stage of training to treat dental disease may have on the main systems in the human body including drug interactions.
c	**Professional and Practical skills**
c.1	Demonstrate the ability to give preventive dental advice relevant to adults in a range of dental settings.
c.2	Demonstrate the ability to handle dental instruments and materials used at this stage of their training safely and in accordance with current cross infection guidelines.
c.3	Demonstrate the ability to take the history of a complaint, medical, therapeutic, dental, and social history and undertaken relevant extra intraoral oral examination in a range of clinical settings for adult patients.

c.4	Demonstrate an understanding of the significance of the complaint, medical, therapeutic, dental and social history and synthesize these to identify necessary courses of action.
c.5	Demonstrate an understanding of the indications, risks and benefits of a range of imaging techniques used in dentistry.
c.6	Demonstrate the ability to undertake and interpret common diagnostic imaging procedures applying the provisions of the Ionizing Radiation (Medical Exposure) Regulations as appropriate.
c.7	Demonstrate the ability to prepare patients, comfortably and safely in readiness for relevant dental procedures.
c.8	Demonstrate the range of skills required to work safely alongside dental care professionals including assisted operating.
c.9	Demonstrate the ability to perform the techniques required for administration of local anesthesia including regional, topical and infiltration techniques, to enable the effective delivery of dental treatment.
c.10	Demonstrate the ability to place very simple direct restorations in patients under close supervision.
c.11	Demonstrate the ability to make impressions for removable prostheses on adults using contemporary dental materials under supervision.
c.12	Demonstrate the ability to remove supra and sub-gingival plaque and calculus deposits using hand and / or mechanical instruments under close supervision.
c.13	Demonstrate that they have seen the use of forceps and elevators to remove permanent teeth.
c.14	Demonstrate that they have seen the clinical stages relating to the replacement of missing teeth using either removable or fixed prostheses.
c.15	Demonstrate the ability to perform the clinical and technical stages relating to the replacement of missing teeth using removable prostheses under close supervision.
c.16	Demonstrate that they have observed the preparation of appropriate access cavities for the treatment of single and multi-rooted permanent teeth.
c.17	Demonstrate that they have seen the preparation of root canal systems of permanent teeth ready for obturation and their obturation using contemporary materials and techniques.
c.18	Demonstrate the skills required to adopt a caring and safe approach to adult patients.
c.19	Demonstrate an awareness of medical emergencies that may occur in dental practice and demonstrate the ability to perform basic life support procedures in a simulated emergency.
c.20	Demonstrate at this stage in training the ability to recognize the results and reports of special tests commonly requested in dentistry
d	**General and transferable skills**
d.1	Demonstrate an understanding of the potential contribution of psychology to dentistry.
d.2	Demonstrate the ability to communicate effectively to deliver health education promotion to individuals and groups
d.3	Demonstrate the ability to use a word processing application on a computer to accomplish everyday tasks
d.4	Demonstrate competence in using presentation tools on a computer to accomplish tasks such as creating, formatting, modifying and preparing presentations using different slide layouts for display and printed distribution, to duplicate and move text, pictures images and charts within the presentation and between presentations and to accomplish common operations with images, charts, drawn objects and to use various slide show effects.

4. Course Content

Course Contents	Symposia	Seminars
General Anatomy	Thoracic wall	
	Lung and pleura	
	Anatomy of the hematopoietic system	
	Circulatory systems Case	
	Mediastinum	
	External features of the heart & pericardium	
	Internal features of the heart	
	Blood supply & innervation of the heart	
	Anatomy of the brain	
	Meninges and CSF	
	Anatomy of the spinal cord	
	Cranial nerves	
	Bones and joints	
	Temporal & Infratemporal fossa	
	Vertebral column	
	Trigeminal nerve	
	Nose and paranasal sinuses	
General Histology	Histology of respiratory system	
	Histological structure of blood cells and function	
	Histological structure of the cardiovascular system	
	Histological structure of the nervous system	
	Histological structure of cartilage	
	Histological structure of bone	
physiology	Mechanics of breathing & factors affecting pulmonary ventilation 17 Case 10 18	
	Functions of plasma proteins &RBCs	
	Gas exchange	
	Hemostasis	
	Properties of cardiac muscle	
	Heart rate	

	Cardiac output	
	Arterial blood pressure	
	Sensory nervous system I	
	Sensory nervous system II	
	Motor nervous system	
	Speech	
	Mastication	
	Bone I	
	Bone II	
	Pain I	
	Pain II	
	Propagation of nerve impulses	
Microbiology	Adaptive immunity	
	Autoimmunity	
	Retro viruses	
	Standard procedures of infection control I	
	Standard procedures of infection control II	
	Autoimmune disease	
Pharmacology	Antiretroviral therapy	
	Antibiotics Sulfonamides	
	Anticoagulants	
	drug interactions	
	obstructive pulmonary disorder	
	Heart Failure	
	Antimicrobial for fever Disease	
	Anticoagulants, fibrinolytic, thrombolytic and anti-platelet therapies	
	lipid lowering drugs and beta blockers	
	ttt of Angina	
	NSAIDs (aspirin, ibuprofen) Paracetamol	
	Immunosuppressant (corticosteroids, methotrexate)	
	Pharmacological treatment of osteoporosis	

	Opioids analgesics	
	Local anaesthetics	
General Pathology	Thrombosis and embolism	
	Ischemia and infarction	
	Nerve injury and necrosis of brain tissue	
	arthritis	
	Repair of bone fracture and osteoporosis	
PIP Course	Improvement of oral health	
	Evidence based preventive intervention	
	Guide line for PIP assignment	
	Assignment model1	
	Assignment model 2	
	Communication skills	
	Behavior modification	
	Guide line to outreach school visit	
	Critical appraising of paper I	
	Critical appraising of paper II	
	Presentation skills	
Operative Dentistry	Instrument in operative dentistry	
	Cavity classification and principles	
	Base and liners	
	Class I amalgam	
	Class II amalgam	
	Class I composit	
	Class II composit	
	Pin retained amalgam restoration	
	Class IV composit restoration	
	Amalgam restoration failure and repair	
Removable Prosthodontics)	Introduction to removable prosthodontics	
	An overview in complete denture I,II,III	
	Mandibular movement I,II	
	articulators	

	Teeth selection	
	Complete denture retention	
	Complete denture stability	
	Complete denture support	
	Diagnosis and treatment planning for the edentulous patient	
	Special impression techniques	
	Jaw relation	
	Complete denture delivery	
	Copy denture	
	Denture relining	
Endodontics	Rotary NiTi insturmentation	
	Endodontics mishaps	
	Evaluation of success and failure	
	Root canal retreatment	
Periodontics	plaque	
	Calculus & local predisposing factors	
	Defense mechanism of gingiva	
	Non-surgical therapy	
Oral surgery	Complication of extraction	
	Local anesthesia	

Clinical Contents	Clinical Topics
General Anatomy	bone of thoracic cartilage & respiratory muscles
	Lung and pleura
	Liver and spleen
	major blood and lymph vessels of the body
	mediastinum
	Heart
	blood supply of the heart
	Cerebral hemispheres
	Cranial nerves

	Infratemporal fossa
	Vertebrae
	Vein and transmission of infection
General Histology	Histology of respiratory system
	Histological structure of blood cells and function
	Histological structure of the cardiovascular system
	Histological structure of the nervous system
	Histological structure of cartilage
	Histological structure of bone
physiology	pulmonary function test
	Haemoglobin determination and blood indices
	Bleeding time and clotting time
	Arterial blood pressure measurement
	ECG leads and comment
	Sensation
	Tendon jerk
Operative Dentistry	Revision on topics covered in year one
	occlusal lesion and their management Bite wing therapy
	Preparation of posterior approximal lesions and their management (I) (Composite).
	Posterior approximal lesions (II) Permanent teeth preparation (Amalgam).
	5 MOD preparation for resin composite.
	MOD preparation LR6 (amalgam).
	Auxiliary retention for amalgam restorations.
	Resin-composite core build-up, UR7 which replaces the mesio buccal cusp.
	Incisal edge restoration
	Replacement and repair of amalgam restorations
Removable Prosthodontics	Prosthodontic landmarks.
	1ry impression + special tray
	Wax occlusal rim
	Mounting
	Setting upper anterior teeth
	Setting lower anterior teeth
	Setting upper and lower posterior teeth
	Waxing up & flasking

	Diagnosis.
	1ry impression
	2ry impression
	Jaw relation
	Try-in
	Insertion
Endodontics	Endodontic Instruments and Access Cavities
	Cleaning and Shaping
	Access Maxillary Premolar
	Temporary Restorations and Rubber Dam Placement
	Obturation
	Molar Endodontics/Mandibular Molar
	Molar Endodontics/Maxillary 6th Molar
	Practical assessment. (access 8th week cavity of two different teeth)
Periodontics	
	Plaque, Periodontal Disease & Assessment
	Non-surgical periodontal therapy & hand instrumentation
	Oral Hygiene Procedures
	Non-surgical periodontal therapy & machine-driven instrumentation
Oral surgery	Local anesthesia (infiltration technique)

Course work content	Symposia	Discipline
EBL	10 cases discussed weekly each case take two weeks	All medical and dental discipline within level two
Anatomy spotter	Anatomy of head and neck	Anatomy, histology
	Histology of bone, cartilage, respiratory system, CVS, CNS, blood cells	
PIP	Improvement of oral health	Dental public health
	Evidence based preventive intervention	

	Guide line for PIP assignment	
	Assignment model1	
	Assignment model 2	
	Communication skills	
	Behavior modification	

5. Contact Hours

No	Activity	Contact Hours
1	**Lecture**	8hrs/week
2	**Laboratory/clinical (Practical)**	14hrs/week
3	**EBL**	2hrs/week
4	**Self- learning/ material collection**	4hrs/week
4	**Office hours**	2hrs/week
	Total	30hrs/week

6. Teaching and learning methods

(Alignment of Teaching Methods with ILOS)

No	Method	Basic knowledge	Intellectual Skills	Professional Skills	General Skills
1	Lectures/Symposia	√	√		
2	EBL/Problem based learning	√	√	√	√
3	Clinical / practical sessions	√		√	√
4	Seminars	√	√	√	√

7. Teaching and learning methods of disables

None

8. Student Assessments

8.1. Assessment Methods

(Alignment of Assessment Methods with ILOS)

No	Method	Basic knowledge	Intellectual Skills	Professional Skills	General Skills
1	EBL	√	√		√
2	PIP Assignments	√		√	√
3	Critical appraisal assessment	√			√
4	Outreach school visit	√		√	√
5	Oral Health presentation	√		√	√
6	Anatomy spotter exam (formative and summative	√	√		
7	MCQ Exam (Formative and Summative)	√	√		
8	SAP Exam (Formative and Summative)	√	√		
9	OSCE (formative and summative)	√	√	√	√
10	Key procedure test (KPT) as an ongoing clinical assessment	√	√	√	

8.2. Assessment length, degree, and proportion of total Assessment Score

No	Method	Week
1	EBL	At 2nd session of EBL cases (7 cases during the year)
2	PIP Assignment	the end of 1st semester
3	Critical appraisal of scientific paper	At the end of 1st semester
4	Outreach school visit	During 1st Semester
5	Formative exams (spotter, MCQ, SAP, OSCE)	At the end of 1st Semester
6	Oral health presentation	at the end of 2nd semester
7	Summative exams (Spotter, MCQ, SAP, OSCE)	At the end of year
8	Key Procedure Test (KPT) as an Ongoing clinical assessment	Continuous assessment during the year
No	**Method**	**Weight**
1	EBL	120/925=13%
2	PIP(Assignment, critical appraisal, outreach visit, oral health presentation	150/925=16.2%
	Anatomy spotter	75/925= 8.1%
3	MCQ	180/925=19.5%
4	SAP	180/925=19.5%
5	OSCE	220/925=23.7%
Total		100%

9. Learning Resources and Facilities

9.1. Learning Resources

Required Textbooks	1. **"Principles of Operative Dentistry" A J E Qualtrough, Julian Satterthwaite (Manchester University), Leean Morrow (Leeds Dental Institute) and Paul Brunton (Leeds Dental Institute). ISBN: 9781405118217 and ISBN10: 1405118210** 2. Preservation and Restoration of Tooth Structure". Graham J. Mount, W.R.Hulme. 2005. Knowledge books and Software. ISBN 1920824 74-X 3. "Operative Dentistry: A Manual Guide to Recent Innovations" by H Devlin Manchester University) Springer-Verlag Publishers, 2006. ISBN-10 3-540-29616-6 and ISBN-13 978-3-540-29616-4. 4. Human anatomy : color atlas and text book, coasling J A C 2008 5. en Cate's oral Ten Cate's oral histology: development, structure, and function - Nanci, Antonio, Ten Cate, A. R. c2013

	6. Principles of anatomy & physiology: Volume 1: Organization, support and movemenet, and control systems of the uman body - Tortora, Gerard J., Derrickson, Bryan c2011 7. essential dental public health - Daly, Blánaid, Batchelor, Paul, Treasure, Elizabeth T., Watt, Richard G. 2013
Electronic Materials	• How to read a paper: the basics of evidence-based medicine - Trisha Greenhalgh 2014 • Delivering better oral health: an evidence-based toolkit for prevention Third edition • healthy_mouth_adults_quick_guide • a quick guide for a healthy mouth in children
Other Learning Materials	

9.2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	- Classroom / EBL rooms/ Clinics / Labs
Technology Resources (AV, data show, Smart Screen, software, etc.)	- PCs + Data Show + Smart Screen
Other Resources (Specify, e.g., if specific laboratory equipment is required, list requirements or attach a list)	- Internet Connection

10. Matrix of course ILOS and the course content

Items	Details	Basic knowledge	Intellectual Skills	Professional Skills	General Skills
	General Anatomy	a.1, a.8	b.1		
	general histology	a.1, a.8	b.1		
	Physiology	a.3,a.4,a.8	b. .1,b.2		

Year Contents	Microbiology	a.5,a.6,a.11. a.12			
	Pharmacology	a.7,a.13	b.3,b.4,b.5		
	General pathology	a.3, a.4	b.2		
	pip	, a.2, a.9		c.1	d.1,d.2,d. 3, d.4
	Operative dentistry	a.10		c.2, c.6, c.8, c.10, c.18	
	Removable prosthodontics	a.10		c.2, c.3,c.4, c.7, c.8, c.11, c.14, c.15, c.18	
	endodontics			c.2, c.5, c.6, c.8, c.16, c.17, c.18	
	biomaterials	a.10		c.2	
	periodontics	a.5, a.6, a.11		c.2,c.8,c.1 2, c 18	
	Oral surgery			c.2, c.8, c.9,c.13, c.18	
Teaching and Learning Methods	Lectures/Symposia	a.1-a.13	b.1-b.5		
	EBL/Problem based learning	a.1, a.13	b.1-b.5		d.1-d.4
	Laboratory /practical	a.1, a.13		c.2-c.20	
	Clinical Sessions	a.1, a.13		c.2-c.20	
Activities and Sources of Teaching and Learning	EBL Sessions	a.1-a.13	b.1-b.5		d.1-d.4
	Research Proposal	a.3	b.2		
	Poster Presentation	a.1		c.5	d.4
Student Assessment	EBL	a.1, a.2	b.1		d.4
	\ PIP course (assignment, Outreach school visit, Critical appraisal of a scientific paper, Oral health presentation	a.2,a.9		c.1	d.1,d.2,d. 3, d.4
	Anatomy spotter exam (formative and summative exam)	a.1, a.8	b.1		

	MCQ Exam (Formative and Summative)	a. .1-a.13	b.1-b.6		
	SAP Exam (Formative and Summative)	a.5,a.6,a.10,a.11			
	OSCE (formative and summative)	a.3, a.4, a.5, a.6, a.8, a.10,a.11	b.1, b.2	c.2-c.20	
	Key Procedure Test (KPT) as an Ongoing clinical assessment	a.5,a.6,a.10,a.11	b.1, b.2	c.2-c.20	

Matrix of Year course ILOs and program ILOs:

Course ILOs	Program ILOs								
	A. Knowledge and understanding								
	A. 1	A. 2	A. 3	A. 4	A. 5	A. 6	A. 7	A. 8	
a.1	√	√			√				
a.2					√				
a.3	√								
a.4				√					
a.5			√						
a.6			√						
a.7							√		
a.8			√		√				
a.9		√		√					
a.10								√	
a.11				√					
a.12							√	√	
a.13							√	√	

B. Intellectual skills

	B.1	B.2	B.3	B.4	B.5	B.6	B.7	B.8	
b.1	√	√		√		√			
b.2	√	√							
b.3		√							
b.4					√				
b.5			√		√		√		

c. Professional and practical skills

	C.1	C.2	C.3	C.4	C.5	C.6	C.7	C.8	C.9	C.10	C.11	
c.1				√								
c.2					√	√		√				
c.3	√	√										
c.4	√	√										
c.5			√									
c.6			√									
c.7				√	√					√		
c.8					√						√	
c.9						√						
c.10							√					

c.11									√			
c.12								√				
c.13								√				
c.14		√			√				√			
c.15					√				√			
c.16							√					
c.17							√					
c.18					√					√	√	
c.19										√	√	
c.20	√	√										

d. General and transferable skills

	D. 1	D. 2	D. 3	D. 4	D. 5	D. 6	D. 7	D. 8	D. 9	D. 10	D. 11	D. 12	
d.1	√		√					√		√			
d.2		√				√				√			
d.3				√	√	√	√						
d.4				√	√	√				√			

11. Student Academic Counseling and Support

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

Year Director

Dr/ **Rasha Elmaghraby**

Year Coordinator(s)

Dr/ **Gilan Altonbary**

Dr/ **Heba Elsheikh**

Program Director

Prof. Abeer Abdelatif

Mansoura Manchester Dental Program

Year specification

3rd year

2024/2025

Year Specification

Program Name	**Mansoura Manchester Dental Program**
Program	Bachelor of Dental science-MMDP
Year Title	**3rd year MMDP**
Year Code	MMDPY3
Academic year	2024-2025

1. Course Identification

Course Title	**3rd year MMDP**
Course Code	MMDPY3
Program	Bachelor of Dental Science MMDP
Number of hours	1200 /national hours

2. Course Description & Objectives

• **Course Description**	The scientific content with different disciplines provide the students with essential and high level of communication skills and professionalism. Student will be able to on holistic patient care, with an emphasis on the diagnosis and treatment planning of cases across all clinical specialties and on managing your final year cases to the very highest standard.
• **Course Objective**	By the end of this course student will be able to; 1. Understand the complex issues involved in the scientific basis of dentistry. 2. Apply intellectual skills, knowledge, and behavior in the field of dentistry. 3. Reflective, committed to lifelong learning 4. Treat integrated cases in a professional manner. 5. Understand knowledge and professionalism for referral of cases that need special care. 6. Lead a team and managing any conflict within the team. 7. Deal professionally with patients, staff and professionals colleagues.

3. Intended Learning Outcomes (ILOS) of the course

a	**Knowledge and understanding**
a.1	Demonstrate an understanding of the impact of micro-organisms on the mouth.
a.2	Demonstrate an understanding of the properties of contemporary dental materials that the student is likely to use in this stage of training to restore the function of the mouth and understand how these relate to their clinical applications.
a.3	Demonstrate the ability to define the role of inheritance in dental health and disease.
a.4	Demonstrate an understanding of the principles in monitoring facial growth and development.
a.5	Demonstrate the ability to describe fetal and embryonic development of the mouth and teeth. Demonstrate the ability to describe fetal and embryonic development of the mouth and teeth.
a.6	Demonstrate an understanding of the psychological development of children and its relevance to dentistry.
a.7	Demonstrate an understanding of how and why pharmaceutical agents likely to be encountered or used in patients attending for dental treatment are administered.
a.8	Demonstrate understanding of the principles of action of pharmaceutical agents likely to be encountered in or used in patients attending for dental treatment and an understanding of possible interactions.
a.9	Demonstrate understanding of how anti-microbial agents that a dentist can prescribe work.
a.10	Demonstrate an understanding of the impact of micro-organisms on the human body.
a.11	Demonstrate understanding of the significance of the nature and variety of micro-organisms that interact with man in health and disease.
a.12	Demonstrate understanding of how disease is manifested and evaluate its impact on the practice of dentistry
b	**Intellectual skills**
b.1	Demonstrate an understanding of how bias can influence the results and significance of clinical dental research.
b.2	Demonstrate understanding of how the differences between clinical and statistical significance impact on interpretation of the literature.
b.3	Demonstrate the knowledge to enable them to design an evaluation of a preventive intervention used within a primary care setting.
b.4	Demonstrate the knowledge required and the ability to undertake and interpret a dietary record in relation to caries risk assessment and treatment planning
b.5	Demonstrate the ability to identify alterations to normal facial, occlusal and dental development and understanding of the procedures to intercept and treat developing and evident anomalies
b.6	Demonstrate the ability to explain the postnatal growth and development of the mouth, teeth and occlusion
b.7	Demonstrate the ability to describe disorders of growth and their impact on the practice of dentistry.
b.8	Demonstrate the ability to describe general fetal and embryonic development relevant to the practice of dentistry
c	**Professional and Practical skills**

c.1	Demonstrate the ability to explain the different clinical tasks that can be carried out by members of the dental team and understand that the patient is a key member of the dental team with an important role in their treatment planning.
c.2	Demonstrate an understanding of the theory and practice of clinical photography and the use of a clinical camera to take appropriate images.
c.3	Demonstrate the ability to assess the results of clinical photography and modify their practice accordingly.
c.4	Demonstrate the ability to use software packages to download and manipulate appropriate images.
c.5	Demonstrate the ability to apply the skills acquired in the ICDL to produce a PowerPoint presentation.
c.6	Demonstrate competence in simple intra and extra-oral imaging techniques used in contemporary clinical practice.
c.7	Demonstrate that they have performed simple endodontic techniques under close supervision.
c.8	Demonstrate competence in simple endodontic techniques and operative techniques for direct restorations in a skills laboratory.
c.9	Demonstrate that they have seen periosteal flaps raised and suturing techniques for soft tissue closure in the oral environment.
c.10	Demonstrate that they have used forceps to remove permanent teeth under close supervision.
c.11	Demonstrate that they have performed the non-surgical procedures used in the management of periodontal diseases
c.12	Demonstrate that they have performed the clinical stages relating to the replacement of missing teeth using fixed prostheses under close supervision in Clinical Skills
c.13	Demonstrate that they have placed direct restorations adults in harmony with oral health.
c.14	Demonstrate that they have made impressions in adults and children using contemporary dental materials
c.15	Demonstrate they have prepared teeth in children and adults appropriately for indirect and direct restorations using contemporary dental materials
c.16	Demonstrate competence in the techniques required for administration of local anesthesia, including regional, topical and infiltration techniques, to enable the effective delivery of dental treatment.
c.17	Demonstrate the ability to work safely alongside dental care professionals. demonstrate the ability to competently prepare child patients comfortably and safely in readiness for relevant dental procedures
c.18	Demonstrate the ability to competently handle dental instruments and materials used at this stage of their training safely and in accordance with current cross infection guidelines.
d	**General and transferable skills**
d.1	Demonstrate the ability to apply communication skills to discuss treatment plans with patients.
d.2	Demonstrate the ability to apply communication skills to discuss treatment plans with patients

d.3	Demonstrate the ability to use communication skills including active listening to take a history from children of varying ages and their parents / carers, including the ability to identify and handle a concern about child protection
d.4	Demonstrate the ability to have a caring and safe approach to adult and child patients both in communicating and in delivering treatment procedures recognizing issues related to equality and diversity, and to show a positive attitude towards diversity through the management of patients from different ethnic and social backgrounds, and with impairments

4. Course Content

Course Contents	Symposia	Seminars
Removable Prosthodontics	Introduction to Partial denture /classification	
	Biomechanics of RPD	
	Denture base /rests	
	Connectors	
	Direct retainers	
	Attachments in RPD	
	Stress breakers in RPD	
	Principles of RPD design	
	Dental surveyor	
	RPD clinical diagnosis and treatment planning	
	Clinical management of free end saddle cases	
	Clinical management of bounded saddle cases	
Fixed Prosthodontics	Principles of tooth preparation	
	Metal ceramic crown preparation	
	All ceramic crown preparation	
	Laboratory aspects of crown and bridge	
	Bridge design	
	Shade and color selection	
	Treatment of endodontically treated teeth	
	Pontics	
Dental Biomaterial	Biomaterials, safety and biocompatibility	
	Structure of ceramics	

	Structure of metals and alloys	
	Principles of adhesion	
	Conventional Dental Cements and Luting agents	
	Glass–ionomer cements and resin-modified glass–ionomer cements	
	Pulp Capping materials	
Operative	Cariology 1	
	Cariology 2	
	Cariology 3	
	Anterior composite restorations	
	Posterior composite restorations	
	Bonding	
Public Dentistry	Fluoride 1	
	Fluoride 2	
	Pits and fissure sealant	
	Evidence based dentistry	
Endodontics	Diagnosis and treatment planning 1	
	Diagnosis and treatment planning 2	
	Pulp and periapical pathosis 1	
	Pulp and periapical pathosis 2	
Oral and Maxillofacial Surgery	Principles of Oral Surgery (I)	
	Local Anesthetic (I)	
	Local Anesthetic: Maxillary techniques	
	Local Anesthetic: Mandibular techniques	
	Local Anesthesia : Complications	
	Closed Extraction	
	Oral cancer	
	Management of medically compromised patients	
	Introduction of dental implants	
	Principles of Oral Surgery (I)	

Orthodontics	Craniofacial growth	
	Development of normal occlusion	
	Biology of orthodontic tooth movement	
	Etiology of malocclusion	
	Preventive orthodontics	
	IOTN	
	Removable appliances	
	The scope and limitations of fixed appliances	
Pediatric Dentistry	Introduction into pediatric dentistry	
	Dental caries in children & adolescents Part I	
	Dental caries in children & adolescents Part II	
	Eruption and early loss of primary teeth part I	
	Eruption and early loss of primary teeth part II	
	Radiographic examination of children's dentition part I	
	Radiographic examination of children's dentition part II	
	Dental anomalies part I	
	Dental anomalies part II	
	Trauma I (primary teeth trauma) part I	
	Trauma I (primary teeth trauma) part II	
	Pediatric restorative dentistry; traditional approach part I	
	Pediatric restorative dentistry; traditional approach part II	
	Pediatric restorative dentistry; traditional approach part III	
Oral Medicine	Laboratory investigations	
	Biopsy	
	Prescription	

Oral Radiology	Normal anatomy of the maxilla	
	Normal anatomy of the mandible	
	Principals of radiographic interpretation	
	Dental Film	
	Digital Radiography	
	Bitewing &Occlusal &Object localization techniques	
	Periapical film errors	
	Panoramic Radiography	
	Radiographic appearance of dental caries	
	Radiographic appearance of periodontal diseases	
	Radiolucency of the jaws 1	
	Cysts in the jaws	
	Radiopacities of the jaws	
	Mixed lesions of the jaws	
	Soft tissue calcifications	

Clinical Contents	Clinical Topics
Removable Prosthodontics	Introduction to Partial denture /classification
	Components in RPD (symposia)
	Dental surveying (symposia)
	Mouth prep On casts
	Mouth prep on dummy heads in sim lab
	Master cast preparation
	Class I demo
	Class II demo
	Class III demo
	Class IV demo
	Clinically:

	One case complete denture
	One case Partial denture acrylic
Fixed Prosthodontics	Porcelain veneers
	Resin bonded crown
	Full gold crown
	Temporary crown
	Metal ceramic crown
	Gold onlay
	Ceramic onlay
	All ceramic crowns
	Impression and occlusal registration
Operative Dentistry	Class I composite restoration
	Class II composite restoration
	Class III composite restoration
	Class IV composite restoration
Periodontology	Scaling for mandibular incisor area
Endodontics	Access cavity preparation
	Cleaning and shaping
	Canal obturation
Oral and Maxillofacial Surgery	Anatomy
	Armamentarium
	Basic injection technique
	Supra-periosteal injection
	Inferior alveolar block injection
	Extraction forceps
	Sterilization and infection control
Orthodontics	Wire exercise
	Z spring
	Adam clasp
	Short labial bow
	w/q helix
Pediatric Dentistry	Class I, II amalgam and composite
	Class V and full crown preparation
	Hall technique
Oral Medicine	Diagnosis & Examination
Oral Radiology	Periapical x-ray for individual teeth
	Bitewing x-ray

EBL CASES	Symposia	Discipline
	Normal development of lip and palate	**Bioscience**
	Surgical and prosthetic management of cleft lip and palate	
	Normal tooth development	
	Normal tooth development	

5. Contact Hours

No	Activity	Contact Hours
1	**Lecture**	10hrs/week
2	**Laboratory/clinical (Practical)**	15hrs/week
3	**EBL**	2hrs/week
4	**Self- learning/ material collection**	4hrs/week
4	**Office hours**	2hrs/week
	Total	33hrs/week

6. Teaching and learning methods

(Alignment of Teaching Methods with ILOS)

S	Method	Basic knowledge	Intellectual skills	Professional skills	General
skills					
1	symposia	√	√		
2	EBL/Problem based learning	√	√		√
3	Laboratory practical	√		√	√

7. Teaching and learning methods of disables

None

8. Student Assessments

8.1. Assessment Methods

(Alignment of Assessment Methods with ILOS)

No	Method	Basic knowledge	Intellectual skills	Professional skills	General
skills					
1	EBl sessions	√	√		√
2	GDP assignment	√		√	√
3	Key Procedure Test (KPT) as an Ongoing clinical assessment	√	√	√	
4	MCQ exam(formative and summative)	√	√	√	
5	SAP exam(formative and summative)	√	√	√	
6	OSCE(formative and summative)	√	√	√	√
No	Method	Basic knowledge	Intellectual skills	Professional skills	General

8.2. Assessment length, degree, and proportion of total Assessment Score

Assessment schedule		
No	Method	Week
1	EBl sessions	NO assessment in third year but discussion is done at the end of the third session for every case
2	GDP assignment	At the end of the 1st semester
3	Key Procedure Test (KPT) as an Ongoing clinical assessment	Continuous assessment during the year
4	Formative (MCQ,SAP,OSCE)	At the end of the 1st semester
5	Summative (MCQ,SAP,OSCE)	At the end of the 2nd semester
Weighting of assessments		
No	Method	Weight
1	GDP Assessment	180/940= 19.1%
2	MCQ	230/940 =24.4%
3	SAP	230/940=24.4%
4	OSCE	300/940= 32%
Total		100%

9. Learning Resources and Facilities

9.1. Learning Resources

Required Textbooks	1. Introduction to dental local anaesthesia - Evers, Hans, Haegerstam, Glenn, Håkansson, Lennart 1990 2. Sturdevant's art and science of operative dentistry - 3. Heymann, Harald, Swift, Edward J., Ritter, Andre V., Sturdevant, Clifford M. 2013 4. Introduction to dental materials - Noort, Richard van, Barbour, Michele E. c2013 5. Craig's restorative dental materials - Sakaguchi, Ronald L., Powers, John M. c2012 6. Textbook of endodontology - Bergenholtz, Gunnar, Hørsted-Bindslev, Preben, Reit, Claes 2010 Harty's endodontics in clinical practice - Chong, Bun San, Harty, F. J. 2010 7. Essential endodontology: prevention and treatment of apical periodontitis - Ørstavik, Dag, Pitt Ford, T. R. 2008 Principles of operative dentistry - Qualtrough, Alison Jane Elisabeth c2005

8. Removable Partial Dentures: A Clinician's Guide - John D. Jones, Lily T. Garcia 2009 (electronic resource)
9. A clinical guide to complete denture prosthetics - J.
10. Fraser McCord, Alan A. Grant, British Dental Association 2000
11. Treatment of edentulous patients - J. Fraser McCord, Phillip Smith, Nicholas Grey 2004 Fundamentals of fixed prosthodontics - Shillingburg, Herbert T. c2012
12. Planning and making crowns and bridges - Bernard G. N. Smith, Leslie C. Howe 2007 Prosthetic rehabilitation - Keith F. Thomas 1994 A clinical guide to crowns and other extra-coronal Text book14 Page 14 of 18 restorations - R. W. Wassell, British Dental Association 2002 Essentials of complete denture prosthodontics - Sheldon Winkler 1994
13. Failure in the restored dentition: management and treatment - Michael D. Wise, Anthony Laurie 1995
14. Prosthodontic Treatment for Edentulous Patients: Complete Dentures and Implant-Supported Prostheses -
15. George A. Zarb, John Hobkirk, Steven Eckert, Rhonda Jacob 2013 (electronic resource)
16. Prosthodontic treatment for edentulous patients: complete dentures and implant-supported prostheses - George A. Zarb, Aaron H. Fenton2013
17. Management of medical emergencies for the dental team - Thornhill, Martin H., Pemberton, Michael N., Atherton, Guy J. 2005 Textbook of general and oral surgery - Wray, David 2003
18. An introduction to orthodontics - Laura Mitchell, Simon J. Littlewood, Zararna NelsonMoon, Fiona Dyer 2013
19. Understanding periodontal diseases: assessment and diagnostic procedures in practice - Chapple, Iain L., Gilbert, Angela D., Wilson, Nairn H. F.2002
20. Successful periodontal therapy: a non-surgical approach
    - Heasman, Peter A., Preshaw, Philip, Robertson, Pauline 2004
21. A clinical guide to periodontology - Palmer, Richard M., Ide, Mark, Floyd, Peter D. 2013
22. Dental caries: the disease and its clinical management - Fejerskov, Ole, Kidd, Edwina A. M. 2008 Paediatric dentistry - Richard Welbury, Monty S. Duggal, Marie Thérèse Hosey 2012
23. Radiation Protection: Guidelines on radiation protection in dental radiology: The safe use of radiographs in dental practice. - European Commission 2004 Interpreting dental radiographs - Horner, Keith, Rout, P. G. J., Rushton, V. E., Wilson, Nairn H. F. 2002 Essentials of dental radiography and radiology - Whaites, Eric, Drage, Nicholas 2013
24. Essential medicine - Jones, John Vann, Tomson, C. R. V.,
25. Read, Alan E. 1998

	26. .Kumar & Clark's clinical medicine - Kumar, Parveen J., Clark, Michael L. 2012 27. Cawson's essentials of oral pathology and oral medicine - Cawson, R. A., Odell, E. W. 2008 28. Underwood's pathology: a clinical approach - 29. Cross, Simon S., Underwood, J. C. E. c2013 - . 30. Robbins and Cotran pathologic basis of disease - 31. Kumar, Vinay, Robbins, Stanley L. 2009 32. Essentials of pathology for dentistry - McMahon, . 33. Essentials of pathology - .R. F. T., Sloan, P. 2000 Mitchinson, M. J. 1996
Electronic Materials	• Delivering better oral health: an evidence-based toolkit for prevention Third edition
Other Learning Materials	

9.2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	- Classroom / EBL rooms/ Clinics / Labs
Technology Resources (AV, data show, Smart Screen, software, etc.)	- PCs + Data Show + Smart Screen
Other Resources (Specify, e.g., if specific laboratory equipment is required, list requirements or attach a list)	- Internet Connection

10. Matrix of course ILOS and the course content

S	Items	Details	Basic knowledge	Intellectual skills	Professional skills	General skills

	Course contents	**Fixed prosthodontics**		b.1,b.3	c.1,c.2,c.3,c.6 c.12	d2,d.3
		Removable prosthodontics		b.1,b.3	c.1,c.2,c.3,c.6 c.12	d2,d.3
		Dental materials	a.2		c.13	
		Operative Dentistry		b.1,b.3.b.4	c.1,c.2,c.3,c.6 c.13	d2,d.3
		Senor operative skill course		b.1,b.3.b.4	c.1,c.2,c.3,c.6 c.13	d2,d.3
		Endodontics		b.1,b.3	c.1,c.2,c.3,c.6 c.8	d2,d.3
		Oral surgery				d2,d.3
		Oral medecine		b.1,b.3	c.1	d2,d.3
		Oral radiology		b.1	c.1,c.6	
		Oral pathology	a.1,a.3,a.4,a.5,a.7 a.8	b.7,b.8		
		Pediatric dentistry	a.6	b.1,b.3,b.4	C1,c.13,c.15,c.17	d2,d.3
		Orthodontics		b.3,b.5,b.6,b.7	c.1,c.6	d.3,d.4
		Public		B1,b.2	c.18	
		GDP			c.5	d2,d.3
2	**Teaching and learning methods**	**symposia**				
		EBL/Problem based learning	a.1,a.3,a.4,a.5,a.7 a.8,a.9,a.10,a.11 a.12,a.13,a.14	b.8,b.7		d.1
		Laboratory practical			c.1-c.18	
		Clinical sessions			c.1,c.2,c.3,c.6 c.12, c.13,c.15,c.17	d.2,d.3 d.4
		GDP Assignment			c.5	d2,d.3
3	Activities and sources of	**EBL**	a.1,a.3,a.4,a.5,a.7 a.8,a.9,a.10,a.11 a.12,a.13,a.14	b.8,b.7		d.1

	teaching and learning	**KPT (Key procedural test)**			c.1-c.18	
		EBl sessions	a.1,a.3,a.4,a.5,a.7 a.8,a.9,a.10,a.11 a.12,a.13,a.14	b.8,b.7		d.1
		GDP assignment			c.5	d2,d.3
4	Student assessment	**Key Procedure Test (KPT) as an Ongoing clinical assessment**			c.1-c.18	
		MCQ exam(formative and summative)	a.1,a.3,a.4,a.5,a.7 a.8,a.9,a.10,a.11 a.12,a.13,a.14	b.1,b.3.b.4		
		SAP exam(formative and summative)	a.1,a.3,a.4,a.5,a.7 a.8,a.9,a.10,a.11 a.12,a.13,a.14	b.1,b.3.b.4		
		OSCE(formative and summative)			c.1,c.2,c.3,c.6 c.12, c.13,c.15,c.17	d.1-d.4

Matrix of Year course ILOs and program ILOs:

Course ILOs	Program ILOs								
	A. Knowledge and understanding								
	A. 1	A. 2	A. 3	A. 4	A. 5	A. 6	A. 7	A. 8	
a.1				√					
a.2									
a.3									
a.4									
a.5	√								
a.6							√		
a.7								√	
a.8								√	
a.9									
a.10				√					
a.11				√					
a.12	√								
B. Intellectual skills									

	B. 1	B. 2	B. 3	B. 4	B. 5	B. 6	B. 7	B. 8	
b.1	√	√							
b.2			√					√	
b.3								√	
b.4	√	√							
b.5	√	√							
b.6						√			
b.7								√	
b.8								√	

c. Professional and practical skills

	C. 1	C. 2	C. 3	C. 4	C. 5	C. 6	C. 7	C. 8	C. 9	C. 10	C.11	
c.1	√	√										
c.2		√	√									
c.3		√										
c.4			√	√								
c.5				√								
c.6						√	√					
c.7						√						
c.8					√							

c.9								√				
c.10								√				
c.11								√				
c.12					√		√					
c.13					√		√					
c.14					√		√					
c.15					√		√					
c.16								√				
c.17					√							
c.18					√							

d. General and transferable skills

	D. 1	D. 2	D. 3	D. 4	D. 5	D. 6	D. 7	D. 8	D. 9	D. 10	D. 11	D. 12	
d.1		√											
d.2		√											
d.3	√												
d.4									√	√	√	√	

11. Student Academic Counseling and Support

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

- Year director.

Dr. Basma Denewer

- Year coordinators

Dr. Asmaa Saleh

Dr. Alaa mamdouh

Program Director

Prof. Dr/ Radwa Emera

Mansoura Manchester Dental Program

Year specification

3rd year

2023/2024

Year Specification

Program Name	**Mansoura Manchester Dental Program**
Program	Bachelor of Dental science-MMDP
Year Title	**3rd year MMDP**
Year Code	MMDPY3
Academic year	٢٠٢٣-٢٠٢٤

1. Course Identification

Course Title	**3rd year MMDP**
Course Code	MMDPY3
Program	Bachelor of Dental Science MMDP
Number of hours	1200 /national hours

2. Course Description & Objectives

• **Course Description**	The scientific content with different disciplines provide the students with essential and high level of communication skills and professionalism. Student will be able to on holistic patient care, with an emphasis on the diagnosis and treatment planning of cases across all clinical specialties and on managing your final year cases to the very highest standard.
• **Course Objective**	By the end of this course student will be able to; 1. Understand the complex issues involved in the scientific basis of dentistry. 2. Apply intellectual skills, knowledge, and behavior in the field of dentistry. 3. Reflective, committed to lifelong learning 4. Treat integrated cases in a professional manner. 5. Understand knowledge and professionalism for referral of cases that need special care. 6. Lead a team and managing any conflict within the team. 7. Deal professionally with patients, staff and professionals colleagues.

3. Intended Learning Outcomes (ILOS) of the course

a	**Knowledge and understanding**
a.1	Demonstrate an understanding of the impact of micro-organisms on the mouth.
a.2	Demonstrate an understanding of the properties of contemporary dental materials that the student is likely to use in this stage of training to restore the function of the mouth and understand how these relate to their clinical applications.
a.3	Demonstrate the ability to define the role of inheritance in dental health and disease.
a.4	Demonstrate an understanding of the principles in monitoring facial growth and development.
a.5	Demonstrate the ability to describe fetal and embryonic development of the mouth and teeth. Demonstrate the ability to describe fetal and embryonic development of the mouth and teeth.
a.6	Demonstrate an understanding of the psychological development of children and its relevance to dentistry.
a.7	Demonstrate an understanding of how and why pharmaceutical agents likely to be encountered or used in patients attending for dental treatment are administered.
a.8	Demonstrate understanding of the principles of action of pharmaceutical agents likely to be encountered in or used in patients attending for dental treatment and an understanding of possible interactions.
a.9	Demonstrate understanding of how anti-microbial agents that a dentist can prescribe work.
a.10	Demonstrate an understanding of the impact of micro-organisms on the human body.
a.11	Demonstrate understanding of the significance of the nature and variety of micro-organisms that interact with man in health and disease.
a.12	Demonstrate understanding of how disease is manifested and evaluate its impact on the practice of dentistry
b	**Intellectual skills**
b.1	Demonstrate an understanding of how bias can influence the results and significance of clinical dental research.
b.2	Demonstrate understanding of how the differences between clinical and statistical significance impact on interpretation of the literature.
b.3	Demonstrate the knowledge to enable them to design an evaluation of a preventive intervention used within a primary care setting.
b.4	Demonstrate the knowledge required and the ability to undertake and interpret a dietary record in relation to caries risk assessment and treatment planning
b.5	Demonstrate the ability to identify alterations to normal facial, occlusal and dental development and understanding of the procedures to intercept and treat developing and evident anomalies
b.6	Demonstrate the ability to explain the postnatal growth and development of the mouth, teeth and occlusion
b.7	Demonstrate the ability to describe disorders of growth and their impact on the practice of dentistry.
b.8	Demonstrate the ability to describe general fetal and embryonic development relevant to the practice of dentistry
c	**Professional and Practical skills**

c.1	Demonstrate the ability to explain the different clinical tasks that can be carried out by members of the dental team and understand that the patient is a key member of the dental team with an important role in their treatment planning.
c.2	Demonstrate an understanding of the theory and practice of clinical photography and the use of a clinical camera to take appropriate images.
c.3	Demonstrate the ability to assess the results of clinical photography and modify their practice accordingly.
c.4	Demonstrate the ability to use software packages to download and manipulate appropriate images.
c.5	Demonstrate the ability to apply the skills acquired in the ICDL to produce a PowerPoint presentation.
c.6	Demonstrate competence in simple intra and extra-oral imaging techniques used in contemporary clinical practice.
c.7	Demonstrate that they have performed simple endodontic techniques under close supervision.
c.8	Demonstrate competence in simple endodontic techniques and operative techniques for direct restorations in a skills laboratory.
c.9	Demonstrate that they have seen periosteal flaps raised and suturing techniques for soft tissue closure in the oral environment.
c.10	Demonstrate that they have used forceps to remove permanent teeth under close supervision.
c.11	Demonstrate that they have performed the non-surgical procedures used in the management of periodontal diseases
c.12	Demonstrate that they have performed the clinical stages relating to the replacement of missing teeth using fixed prostheses under close supervision in Clinical Skills
c.13	Demonstrate that they have placed direct restorations adults in harmony with oral health.
c.14	Demonstrate that they have made impressions in adults and children using contemporary dental materials
c.15	Demonstrate they have prepared teeth in children and adults appropriately for indirect and direct restorations using contemporary dental materials
c.16	Demonstrate competence in the techniques required for administration of local anesthesia, including regional, topical and infiltration techniques, to enable the effective delivery of dental treatment.
c.17	Demonstrate the ability to work safely alongside dental care professionals. demonstrate the ability to competently prepare child patients comfortably and safely in readiness for relevant dental procedures
c.18	Demonstrate the ability to competently handle dental instruments and materials used at this stage of their training safely and in accordance with current cross infection guidelines.
d	**General and transferable skills**
d.1	Demonstrate the ability to apply communication skills to discuss treatment plans with patients.
d.2	Demonstrate the ability to apply communication skills to discuss treatment plans with patients

d.3	Demonstrate the ability to use communication skills including active listening to take a history from children of varying ages and their parents / carers, including the ability to identify and handle a concern about child protection
d.4	Demonstrate the ability to have a caring and safe approach to adult and child patients both in communicating and in delivering treatment procedures recognizing issues related to equality and diversity, and to show a positive attitude towards diversity through the management of patients from different ethnic and social backgrounds, and with impairments

4. Course Content

Course Contents	Symposia	Seminars
Removable Prosthodontics	Introduction to Partial denture /classification	
	Biomechanics of RPD	
	Denture base /rests	
	Connectors	
	Direct retainers	
	Attachments in RPD	
	Stress breakers in RPD	
	Principles of RPD design	
	Dental surveyor	
	RPD clinical diagnosis and treatment planning	
	Clinical management of free end saddle cases	
	Clinical management of bounded saddle cases	
Fixed Prosthodontics	Principles of tooth preparation	
	Metal ceramic crown preparation	
	All ceramic crown preparation	
	Laboratory aspects of crown and bridge	
	Bridge design	
	Shade and color selection	
	Treatment of endodontically treated teeth	
	Pontics	
Dental Biomaterial	Biomaterials, safety and biocompatibility	
	Structure of ceramics	

	Structure of metals and alloys	
	Principles of adhesion	
	Conventional Dental Cements and Luting agents	
	Glass–ionomer cements and resin-modified glass–ionomer cements	
	Pulp Capping materials	
Operative	Cariology 1	
	Cariology 2	
	Cariology 3	
	Anterior composite restorations	
	Posterior composite restorations	
	Bonding	
Public Dentistry	Fluoride 1	
	Fluoride 2	
	Pits and fissure sealant	
	Evidence based dentistry	
Endodontics	Diagnosis and treatment planning 1	
	Diagnosis and treatment planning 2	
	Pulp and periapical pathosis 1	
	Pulp and periapical pathosis 2	
Oral and Maxillofacial Surgery	Principles of Oral Surgery (I)	
	Local Anesthetic (I)	
	Local Anesthetic: Maxillary techniques	
	Local Anesthetic: Mandibular techniques	
	Local Anesthesia : Complications	
	Closed Extraction	
	Oral cancer	
	Management of medically compromised patients	
	Introduction of dental implants	
	Principles of Oral Surgery (I)	

Orthodontics	Craniofacial growth	
	Development of normal occlusion	
	Biology of orthodontic tooth movement	
	Etiology of malocclusion	
	Preventive orthodontics	
	IOTN	
	Removable appliances	
	The scope and limitations of fixed appliances	
Pediatric Dentistry	Introduction into pediatric dentistry	
	Dental caries in children & adolescents Part I	
	Dental caries in children & adolescents Part II	
	Eruption and early loss of primary teeth part I	
	Eruption and early loss of primary teeth part II	
	Radiographic examination of children's dentition part I	
	Radiographic examination of children's dentition part II	
	Dental anomalies part I	
	Dental anomalies part II	
	Trauma I (primary teeth trauma) part I	
	Trauma I (primary teeth trauma) part II	
	Pediatric restorative dentistry; traditional approach part I	
	Pediatric restorative dentistry; traditional approach part II	
	Pediatric restorative dentistry; traditional approach part III	
Oral Medicine	Laboratory investigations	
	Biopsy	
	Prescription	

Oral Radiology	Normal anatomy of the maxilla	
	Normal anatomy of the mandible	
	Principals of radiographic interpretation	
	Dental Film	
	Digital Radiography	
	Bitewing &Occlusal &Object localization techniques	
	Periapical film errors	
	Panoramic Radiography	
	Radiographic appearance of dental caries	
	Radiographic appearance of periodontal diseases	
	Radiolucency of the jaws 1	
	Cysts in the jaws	
	Radiopacities of the jaws	
	Mixed lesions of the jaws	
	Soft tissue calcifications	

Clinical Contents	Clinical Topics
Removable Prosthodontics	Introduction to Partial denture /classification
	Components in RPD (symposia)
	Dental surveying (symposia)
	Mouth prep On casts
	Mouth prep on dummy heads in sim lab
	Master cast preparation
	Class I demo
	Class II demo
	Class III demo
	Class IV demo
	Clinically:

	One case complete denture
	One case Partial denture acrylic
Fixed Prosthodontics	Porcelain veneers
	Resin bonded crown
	Full gold crown
	Temporary crown
	Metal ceramic crown
	Gold onlay
	Ceramic onlay
	All ceramic crowns
	Impression and occlusal registration
Operative Dentistry	Class I composite restoration
	Class II composite restoration
	Class III composite restoration
	Class IV composite restoration
Periodontology	Scaling for mandibular incisor area
Endodontics	Access cavity preparation
	Cleaning and shaping
	Canal obturation
Oral and Maxillofacial Surgery	Anatomy
	Armamentarium
	Basic injection technique
	Supra-periosteal injection
	Inferior alveolar block injection
	Extraction forceps
	Sterilization and infection control
Orthodontics	Wire exercise
	Z spring
	Adam clasp
	Short labial bow
	w/q helix
Pediatric Dentistry	Class I, II amalgam and composite
	Class V and full crown preparation
	Hall technique
Oral Medicine	Diagnosis & Examination
Oral Radiology	Periapical x-ray for individual teeth
	Bitewing x-ray

EBL CASES	Symposia	Discipline
	Normal development of lip and palate	**Bioscience**
	Surgical and prosthetic management of cleft lip and palate	
	Normal tooth development	
	Normal tooth development	

5. Contact Hours

No	Activity	Contact Hours
1	**Lecture**	10hrs/week
2	**Laboratory/clinical (Practical)**	15hrs/week
3	**EBL**	2hrs/week
4	**Self- learning/ material collection**	4hrs/week
4	**Office hours**	2hrs/week
	Total	33hrs/week

6. Teaching and learning methods

(Alignment of Teaching Methods with ILOS)

S	Method	Basic knowledge	Intellectual skills	Professional skills	General
skills					
1	symposia	√	√		
2	EBL/Problem based learning	√	√		√
3	Laboratory practical	√		√	√

7. Teaching and learning methods of disables

None

8. Student Assessments

8.1. Assessment Methods

(Alignment of Assessment Methods with ILOS)

No	Method	Basic knowledge	Intellectual skills	Professional skills	General
skills					
1	EBl sessions	√	√		√
2	GDP assignment	√		√	√
3	Key Procedure Test (KPT) as an Ongoing clinical assessment	√	√	√	
4	MCQ exam(formative and summative)	√	√	√	
5	SAP exam(formative and summative)	√	√	√	
6	OSCE(formative and summative)	√	√	√	√
No	Method	Basic knowledge	Intellectual skills	Professional skills	General

8.2. Assessment length, degree, and proportion of total Assessment Score

Assessment schedule		
No	Method	Week
1	EBl sessions	NO assessment in third year but discussion is done at the end of the third session for every case
2	GDP assignment	At the end of the 1st semester
3	Key Procedure Test (KPT) as an Ongoing clinical assessment	Continuous assessment during the year
4	Formative (MCQ,SAP,OSCE)	At the end of the 1st semester
5	Summative (MCQ,SAP,OSCE)	At the end of the 2nd semester
Weighting of assessments		
No	Method	Weight
1	GDP Assessment	180/940= 19.1%
2	MCQ	230/940 =24.4%
3	SAP	230/940=24.4%
4	OSCE	300/940= 32%
Total		100%

9. Learning Resources and Facilities

9.1. Learning Resources

Required Textbooks	1. Introduction to dental local anaesthesia - Evers, Hans, Haegerstam, Glenn, Håkansson, Lennart 1990 2. Sturdevant's art and science of operative dentistry - 3. Heymann, Harald, Swift, Edward J., Ritter, Andre V., Sturdevant, Clifford M. 2013 4. Introduction to dental materials - Noort, Richard van, Barbour, Michele E. c2013 5. Craig's restorative dental materials - Sakaguchi, Ronald L., Powers, John M. c2012 6. Textbook of endodontology - Bergenholtz, Gunnar, Hørsted-Bindslev, Preben, Reit, Claes 2010 Harty's endodontics in clinical practice - Chong, Bun San, Harty, F. J. 2010 7. Essential endodontology: prevention and treatment of apical periodontitis - Ørstavik, Dag, Pitt Ford, T. R. 2008 Principles of operative dentistry - Qualtrough, Alison Jane Elisabeth c2005

8. Removable Partial Dentures: A Clinician's Guide - John D. Jones, Lily T. Garcia 2009 (electronic resource)
9. A clinical guide to complete denture prosthetics - J.
10. Fraser McCord, Alan A. Grant, British Dental Association 2000
11. Treatment of edentulous patients - J. Fraser McCord, Phillip Smith, Nicholas Grey 2004 Fundamentals of fixed prosthodontics - Shillingburg, Herbert T. c2012
12. Planning and making crowns and bridges - Bernard G. N. Smith, Leslie C. Howe 2007 Prosthetic rehabilitation - Keith F. Thomas 1994 A clinical guide to crowns and other extra-coronal Text book14 Page 14 of 18 restorations - R. W. Wassell, British Dental Association 2002 Essentials of complete denture prosthodontics - Sheldon Winkler 1994
13. Failure in the restored dentition: management and treatment - Michael D. Wise, Anthony Laurie 1995
14. Prosthodontic Treatment for Edentulous Patients: Complete Dentures and Implant-Supported Prostheses -
15. George A. Zarb, John Hobkirk, Steven Eckert, Rhonda Jacob 2013 (electronic resource)
16. Prosthodontic treatment for edentulous patients: complete dentures and implant-supported prostheses - George A. Zarb, Aaron H. Fenton2013
17. Management of medical emergencies for the dental team - Thornhill, Martin H., Pemberton, Michael N., Atherton, Guy J. 2005 Textbook of general and oral surgery - Wray, David 2003
18. An introduction to orthodontics - Laura Mitchell, Simon J. Littlewood, Zararna NelsonMoon, Fiona Dyer 2013
19. Understanding periodontal diseases: assessment and diagnostic procedures in practice - Chapple, Iain L., Gilbert, Angela D., Wilson, Nairn H. F.2002
20. Successful periodontal therapy: a non-surgical approach
    - Heasman, Peter A., Preshaw, Philip, Robertson, Pauline 2004
21. A clinical guide to periodontology - Palmer, Richard M., Ide, Mark, Floyd, Peter D. 2013
22. Dental caries: the disease and its clinical management - Fejerskov, Ole, Kidd, Edwina A. M. 2008 Paediatric dentistry - Richard Welbury, Monty S. Duggal, Marie Thérèse Hosey 2012
23. Radiation Protection: Guidelines on radiation protection in dental radiology: The safe use of radiographs in dental practice. - European Commission 2004 Interpreting dental radiographs - Horner, Keith, Rout, P. G. J., Rushton, V. E., Wilson, Nairn H. F. 2002 Essentials of dental radiography and radiology - Whaites, Eric, Drage, Nicholas 2013
24. Essential medicine - Jones, John Vann, Tomson, C. R. V.,
25. Read, Alan E. 1998

	26. .Kumar & Clark's clinical medicine - Kumar, Parveen J., Clark, Michael L. 2012 27. Cawson's essentials of oral pathology and oral medicine - Cawson, R. A., Odell, E. W. 2008 28. Underwood's pathology: a clinical approach - 29. Cross, Simon S., Underwood, J. C. E. c2013 - . 30. Robbins and Cotran pathologic basis of disease - 31. Kumar, Vinay, Robbins, Stanley L. 2009 32. Essentials of pathology for dentistry - McMahon, . 33. Essentials of pathology - .R. F. T., Sloan, P. 2000 Mitchinson, M. J. 1996
Electronic Materials	• Delivering better oral health: an evidence-based toolkit for prevention Third edition
Other Learning Materials	

9.2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	- Classroom / EBL rooms/ Clinics / Labs
Technology Resources (AV, data show, Smart Screen, software, etc.)	- PCs + Data Show + Smart Screen
Other Resources (Specify, e.g., if specific laboratory equipment is required, list requirements or attach a list)	- Internet Connection

10. Matrix of course ILOS and the course content

S	Items	Details	Basic knowledge	Intellectual skills	Professional skills	General skills
	Course contents	**Fixed prosthodontics**		b.1,b.3	c.1,c.2,c.3,c.6 c.12	d2,d.3
		Removable prosthodontics		b.1,b.3	c.1,c.2,c.3,c.6 c.12	d2,d.3
		Dental materials	a.2		c.13	
		Operative Dentistry		b.1,b.3.b.4	c.1,c.2,c.3,c.6 c.13	d2,d.3
		Senor operative skill course		b.1,b.3.b.4	c.1,c.2,c.3,c.6 c.13	d2,d.3
		Endodontics		b.1,b.3	c.1,c.2,c.3,c.6 c.8	d2,d.3
		Oral surgery				d2,d.3
		Oral medecine		b.1,b.3	c.1	d2,d.3
		Oral radiology		b.1	c.1,c.6	
		Oral pathology	a.1,a.3,a.4,a.5,a.7 a.8	b.7,b.8		
		Pediatric dentistry	a.6	b.1,b.3,b.4	C1,c.13,c.15,c.17	d2,d.3
		Orthodontics		b.3,b.5,b.6,b.7	c.1,c.6	d.3,d.4
		Public		B1,b.2	c.18	

		GDP			c.5	d2,d.3
	Teaching and learning methods	**symposia**				
2		**EBL/Problem based learning**	a.1,a.3,a.4,a.5,a.7 a.8,a.9,a.10,a.11 a.12,a.13,a.14	b.8,b.7		d.1
		Laboratory practical			c.1-c.18	
		Clinical sessions			c.1,c.2,c.3,c.6 c.12, c.13,c.15,c.17	d.2,d.3 d.4
		GDP Assignment			c.5	d2,d.3
3	Activities and sources of teaching and learning	**EBL**	a.1,a.3,a.4,a.5,a.7 a.8,a.9,a.10,a.11 a.12,a.13,a.14	b.8,b.7		d.1
		KPT (Key procedural test)			c.1-c.18	
4	Student assessment	**EBl sessions**	a.1,a.3,a.4,a.5,a.7 a.8,a.9,a.10,a.11 a.12,a.13,a.14	b.8,b.7		d.1
		GDP assignment			c.5	d2,d.3
		Key Procedure Test (KPT) as an Ongoing			c.1-c.18	

		clinical assessment				
		MCQ exam(formative and summative)	a.1,a.3,a.4,a.5,a.7 a.8,a.9,a.10,a.11 a.12,a.13,a.14	b.1,b.3.b.4		
		SAP exam(formative and summative)	a.1,a.3,a.4,a.5,a.7 a.8,a.9,a.10,a.11 a.12,a.13,a.14	b.1,b.3.b.4		
		OSCE(formative and summative)			c.1,c.2,c.3,c.6 c.12, c.13,c.15,c.17	d.1-d.4

Matrix of Year course ILOs and program ILOs:

Course ILOs	Program ILOs								
	A. Knowledge and understanding								
	A. 1	A. 2	A. 3	A. 4	A. 5	A. 6	A. 7	A. 8	
a.1				√					
a.2									
a.3									
a.4									
a.5	√								
a.6							√		
a.7								√	
a.8								√	
a.9									
a.10				√					
a.11				√					
a.12	√								
B. Intellectual skills									

	B. 1	B. 2	B. 3	B. 4	B. 5	B. 6	B. 7	B. 8	
b.1	√	√							
b.2			√					√	
b.3								√	
b.4	√	√							
b.5	√	√							
b.6						√			
b.7								√	
b.8								√	

c. Professional and practical skills

	C. 1	C. 2	C. 3	C. 4	C. 5	C. 6	C. 7	C. 8	C. 9	C. 10	C.11	
c.1	√	√										
c.2		√	√									
c.3		√										
c.4			√	√								
c.5				√								
c.6						√	√					
c.7						√						
c.8					√							

c.9								√				
c.10								√				
c.11								√				
c.12					√		√					
c.13					√		√					
c.14					√		√					
c.15					√		√					
c.16								√				
c.17					√							
c.18					√							

d. General and transferable skills

	D. 1	D. 2	D. 3	D. 4	D. 5	D. 6	D. 7	D. 8	D. 9	D. 10	D. 11	D. 12	
d.1		√											
d.2		√											
d.3	√												
d.4									√	√	√	√	

11. Student Academic Counseling and Support

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

- Year director.

Dr. Cristian Raouf

- Year coordinators

Dr. Mona Mohsen

Dr. Basma Denewer

Program Director

Prof. Dr/ Radwa Emera

Mansoura Manchester Dental Program

Year specification

3rd year

2022/2023

Year Specification

Program Name	**Mansoura Manchester Dental Program**
Program	Bachelor of Dental science-MMDP
Year Title	**3rd year MMDP**
Year Code	MMDPY3
Academic year	2022-2023

1. Course Identification

Course Title	**3rd year MMDP**
Course Code	MMDPY3
Program	Bachelor of Dental Science MMDP
Number of hours	1200 /national hours

2. Course Description & Objectives

• **Course Description**	The scientific content with different disciplines provide the students with essential and high level of communication skills and professionalism. Student will be able to on holistic patient care, with an emphasis on the diagnosis and treatment planning of cases across all clinical specialties and on managing your final year cases to the very highest standard.
• **Course Objective**	By the end of this course student will be able to; 1. Understand the complex issues involved in the scientific basis of dentistry. 2. Apply intellectual skills, knowledge, and behavior in the field of dentistry. 3. Reflective, committed to lifelong learning 4. Treat integrated cases in a professional manner. 5. Understand knowledge and professionalism for referral of cases that need special care. 6. Lead a team and managing any conflict within the team. 7. Deal professionally with patients, staff and professionals colleagues.

3. Intended Learning Outcomes (ILOS) of the course

a	**Knowledge and understanding**
a.1	Demonstrate an understanding of the impact of micro-organisms on the mouth.
a.2	Demonstrate an understanding of the properties of contemporary dental materials that the student is likely to use in this stage of training to restore the function of the mouth and understand how these relate to their clinical applications.
a.3	Demonstrate the ability to define the role of inheritance in dental health and disease.
a.4	Demonstrate an understanding of the principles in monitoring facial growth and development.
a.5	Demonstrate the ability to describe fetal and embryonic development of the mouth and teeth. Demonstrate the ability to describe fetal and embryonic development of the mouth and teeth.
a.6	Demonstrate an understanding of the psychological development of children and its relevance to dentistry.
a.7	Demonstrate an understanding of how and why pharmaceutical agents likely to be encountered or used in patients attending for dental treatment are administered.
a.8	Demonstrate understanding of the principles of action of pharmaceutical agents likely to be encountered in or used in patients attending for dental treatment and an understanding of possible interactions.
a.9	Demonstrate understanding of how anti-microbial agents that a dentist can prescribe work.
a.10	Demonstrate an understanding of the impact of micro-organisms on the human body.
a.11	Demonstrate understanding of the significance of the nature and variety of micro-organisms that interact with man in health and disease.
a.12	Demonstrate understanding of how disease is manifested and evaluate its impact on the practice of dentistry
b	**Intellectual skills**
b.1	Demonstrate an understanding of how bias can influence the results and significance of clinical dental research.
b.2	Demonstrate understanding of how the differences between clinical and statistical significance impact on interpretation of the literature.
b.3	Demonstrate the knowledge to enable them to design an evaluation of a preventive intervention used within a primary care setting.
b.4	Demonstrate the knowledge required and the ability to undertake and interpret a dietary record in relation to caries risk assessment and treatment planning
b.5	Demonstrate the ability to identify alterations to normal facial, occlusal and dental development and understanding of the procedures to intercept and treat developing and evident anomalies
b.6	Demonstrate the ability to explain the postnatal growth and development of the mouth, teeth and occlusion
b.7	Demonstrate the ability to describe disorders of growth and their impact on the practice of dentistry.
b.8	Demonstrate the ability to describe general fetal and embryonic development relevant to the practice of dentistry
c	**Professional and Practical skills**

c.1	Demonstrate the ability to explain the different clinical tasks that can be carried out by members of the dental team and understand that the patient is a key member of the dental team with an important role in their treatment planning.
c.2	Demonstrate an understanding of the theory and practice of clinical photography and the use of a clinical camera to take appropriate images.
c.3	Demonstrate the ability to assess the results of clinical photography and modify their practice accordingly.
c.4	Demonstrate the ability to use software packages to download and manipulate appropriate images.
c.5	Demonstrate the ability to apply the skills acquired in the ICDL to produce a PowerPoint presentation.
c.6	Demonstrate competence in simple intra and extra-oral imaging techniques used in contemporary clinical practice.
c.7	Demonstrate that they have performed simple endodontic techniques under close supervision.
c.8	Demonstrate competence in simple endodontic techniques and operative techniques for direct restorations in a skills laboratory.
c.9	Demonstrate that they have seen periosteal flaps raised and suturing techniques for soft tissue closure in the oral environment.
c.10	Demonstrate that they have used forceps to remove permanent teeth under close supervision.
c.11	Demonstrate that they have performed the non-surgical procedures used in the management of periodontal diseases
c.12	Demonstrate that they have performed the clinical stages relating to the replacement of missing teeth using fixed prostheses under close supervision in Clinical Skills
c.13	Demonstrate that they have placed direct restorations adults in harmony with oral health.
c.14	Demonstrate that they have made impressions in adults and children using contemporary dental materials
c.15	Demonstrate they have prepared teeth in children and adults appropriately for indirect and direct restorations using contemporary dental materials
c.16	Demonstrate competence in the techniques required for administration of local anesthesia, including regional, topical and infiltration techniques, to enable the effective delivery of dental treatment.
c.17	Demonstrate the ability to work safely alongside dental care professionals. demonstrate the ability to competently prepare child patients comfortably and safely in readiness for relevant dental procedures
c.18	Demonstrate the ability to competently handle dental instruments and materials used at this stage of their training safely and in accordance with current cross infection guidelines.
d	**General and transferable skills**
d.1	Demonstrate the ability to apply communication skills to discuss treatment plans with patients.
d.2	Demonstrate the ability to apply communication skills to discuss treatment plans with patients

d.3	Demonstrate the ability to use communication skills including active listening to take a history from children of varying ages and their parents / carers, including the ability to identify and handle a concern about child protection
d.4	Demonstrate the ability to have a caring and safe approach to adult and child patients both in communicating and in delivering treatment procedures recognizing issues related to equality and diversity, and to show a positive attitude towards diversity through the management of patients from different ethnic and social backgrounds, and with impairments

4. Course Content

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	Direct retainers	
	Attachments in RPD	
	Stress breakers in RPD	
	Principles of RPD design	
	Dental surveyor	
	RPD clinical diagnosis and treatment planning	
	Clinical management of free end saddle cases	
	Clinical management of bounded saddle cases	
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	Metal ceramic crown preparation	
	All ceramic crown preparation	
	Laboratory aspects of crown and bridge	
	Bridge design	
	Shade and color selection	
	Treatment of endodontically treated teeth	
	Pontics	
Dental Biomaterial	Biomaterials, safety and biocompatibility	
	Structure of ceramics	

	Structure of metals and alloys	
	Principles of adhesion	
	Conventional Dental Cements and Luting agents	
	Glass–ionomer cements and resin-modified glass–ionomer cements	
	Pulp Capping materials	
Operative	Cariology 1	
	Cariology 2	
	Cariology 3	
	Anterior composite restorations	
	Posterior composite restorations	
	Bonding	
Public Dentistry	Fluoride 1	
	Fluoride 2	
	Pits and fissure sealant	
	Evidence based dentistry	
Endodontics	Diagnosis and treatment planning 1	
	Diagnosis and treatment planning 2	
	Pulp and periapical pathosis 1	
	Pulp and periapical pathosis 2	
Oral and Maxillofacial Surgery	Principles of Oral Surgery (I)	
	Local Anesthetic (I)	
	Local Anesthetic: Maxillary techniques	
	Local Anesthetic: Mandibular techniques	
	Local Anesthesia : Complications	
	Closed Extraction	
	Oral cancer	
	Management of medically compromised patients	
	Introduction of dental implants	
	Principles of Oral Surgery (I)	

Orthodontics	Craniofacial growth	
	Development of normal occlusion	
	Biology of orthodontic tooth movement	
	Etiology of malocclusion	
	Preventive orthodontics	
	IOTN	
	Removable appliances	
	The scope and limitations of fixed appliances	
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	Dental caries in children & adolescents Part I	
	Dental caries in children & adolescents Part II	
	Eruption and early loss of primary teeth part I	
	Eruption and early loss of primary teeth part II	
	Radiographic examination of children's dentition part I	
	Radiographic examination of children's dentition part II	
	Dental anomalies part I	
	Dental anomalies part II	
	Trauma I (primary teeth trauma) part I	
	Trauma I (primary teeth trauma) part II	
	Pediatric restorative dentistry; traditional approach part I	
	Pediatric restorative dentistry; traditional approach part II	
	Pediatric restorative dentistry; traditional approach part III	
Oral Medicine	Laboratory investigations	
	Biopsy	
	Prescription	

Oral Radiology	Normal anatomy of the maxilla	
	Normal anatomy of the mandible	
	Principals of radiographic interpretation	
	Dental Film	
	Digital Radiography	
	Bitewing &Occlusal &Object localization techniques	
	Periapical film errors	
	Panoramic Radiography	
	Radiographic appearance of dental caries	
	Radiographic appearance of periodontal diseases	
	Radiolucency of the jaws 1	
	Cysts in the jaws	
	Radiopacities of the jaws	
	Mixed lesions of the jaws	
	Soft tissue calcifications	

Clinical Contents	Clinical Topics
Removable Prosthodontics	Introduction to Partial denture /classification
	Components in RPD (symposia)
	Dental surveying (symposia)
	Mouth prep On casts
	Mouth prep on dummy heads in sim lab
	Master cast preparation
	Class I demo
	Class II demo
	Class III demo
	Class IV demo
	Clinically:

	One case complete denture
	One case Partial denture acrylic
Fixed Prosthodontics	Porcelain veneers
	Resin bonded crown
	Full gold crown
	Temporary crown
	Metal ceramic crown
	Gold onlay
	Ceramic onlay
	All ceramic crowns
	Impression and occlusal registration
Operative Dentistry	Class I composite restoration
	Class II composite restoration
	Class III composite restoration
	Class IV composite restoration
Periodontology	Scaling for mandibular incisor area
Endodontics	Access cavity preparation
	Cleaning and shaping
	Canal obturation
Oral and Maxillofacial Surgery	Anatomy
	Armamentarium
	Basic injection technique
	Supra-periosteal injection
	Inferior alveolar block injection
	Extraction forceps
	Sterilization and infection control
Orthodontics	Wire exercise
	Z spring
	Adam clasp
	Short labial bow
	w/q helix
Pediatric Dentistry	Class I, II amalgam and composite
	Class V and full crown preparation
	Hall technique
Oral Medicine	Diagnosis & Examination
Oral Radiology	Periapical x-ray for individual teeth
	Bitewing x-ray

EBL CASES	Symposia	Discipline
	Normal development of lip and palate	**Bioscience**
	Surgical and prosthetic management of cleft lip and palate	
	Normal tooth development	
	Normal tooth development	

5. Contact Hours

No	Activity	Contact Hours
1	**Lecture**	10hrs/week
2	**Laboratory/clinical (Practical)**	15hrs/week
3	**EBL**	2hrs/week
4	**Self- learning/ material collection**	4hrs/week
4	**Office hours**	2hrs/week
	Total	33hrs/week

6. Teaching and learning methods

(Alignment of Teaching Methods with ILOS)

S	Method	Basic knowledge	Intellectual skills	Professional skills	General
skills					
1	symposia	√	√		
2	EBL/Problem based learning	√	√		√
3	Laboratory practical	√		√	√

7. Teaching and learning methods of disables

None

8. Student Assessments

8.1. Assessment Methods

(Alignment of Assessment Methods with ILOS)

No	Method	Basic knowledge	Intellectual skills	Professional skills	General
skills					
1	EBl sessions	√	√		√
2	GDP assignment	√		√	√
3	Key Procedure Test (KPT) as an Ongoing clinical assessment	√	√	√	
4	MCQ exam(formative and summative)	√	√	√	
5	SAP exam(formative and summative)	√	√	√	
6	OSCE(formative and summative)	√	√	√	√
No	Method	Basic knowledge	Intellectual skills	Professional skills	General

8.2. Assessment length, degree, and proportion of total Assessment Score

Assessment schedule		
No	Method	Week
1	EBl sessions	NO assessment in third year but discussion is done at the end of the third session for every case
2	GDP assignment	At the end of the 1st semester
3	Key Procedure Test (KPT) as an Ongoing clinical assessment	Continuous assessment during the year
4	Formative (MCQ,SAP,OSCE)	At the end of the 1st semester
5	Summative (MCQ,SAP,OSCE)	At the end of the 2nd semester
Weighting of assessments		
No	Method	Weight
1	GDP Assessment	180/940= 19.1%
2	MCQ	230/940 =24.4%
3	SAP	230/940=24.4%
4	OSCE	300/940= 32%
Total		100%

9. Learning Resources and Facilities

9.1. Learning Resources

Required Textbooks	1. Introduction to dental local anaesthesia - Evers, Hans, Haegerstam, Glenn, Håkansson, Lennart 1990 2. Sturdevant's art and science of operative dentistry - 3. Heymann, Harald, Swift, Edward J., Ritter, Andre V., Sturdevant, Clifford M. 2013 4. Introduction to dental materials - Noort, Richard van, Barbour, Michele E. c2013 5. Craig's restorative dental materials - Sakaguchi, Ronald L., Powers, John M. c2012 6. Textbook of endodontology - Bergenholtz, Gunnar, Hørsted-Bindslev, Preben, Reit, Claes 2010 Harty's endodontics in clinical practice - Chong, Bun San, Harty, F. J. 2010 7. Essential endodontology: prevention and treatment of apical periodontitis - Ørstavik, Dag, Pitt Ford, T. R. 2008 Principles of operative dentistry - Qualtrough, Alison Jane Elisabeth c2005

8. Removable Partial Dentures: A Clinician's Guide - John D. Jones, Lily T. Garcia 2009 (electronic resource)
9. A clinical guide to complete denture prosthetics - J.
10. Fraser McCord, Alan A. Grant, British Dental Association 2000
11. Treatment of edentulous patients - J. Fraser McCord, Phillip Smith, Nicholas Grey 2004 Fundamentals of fixed prosthodontics - Shillingburg, Herbert T. c2012
12. Planning and making crowns and bridges - Bernard G. N. Smith, Leslie C. Howe 2007 Prosthetic rehabilitation - Keith F. Thomas 1994 A clinical guide to crowns and other extra-coronal Text book14 Page 14 of 18 restorations - R. W. Wassell, British Dental Association 2002 Essentials of complete denture prosthodontics - Sheldon Winkler 1994
13. Failure in the restored dentition: management and treatment - Michael D. Wise, Anthony Laurie 1995
14. Prosthodontic Treatment for Edentulous Patients: Complete Dentures and Implant-Supported Prostheses -
15. George A. Zarb, John Hobkirk, Steven Eckert, Rhonda Jacob 2013 (electronic resource)
16. Prosthodontic treatment for edentulous patients: complete dentures and implant-supported prostheses - George A. Zarb, Aaron H. Fenton2013
17. Management of medical emergencies for the dental team - Thornhill, Martin H., Pemberton, Michael N., Atherton, Guy J. 2005 Textbook of general and oral surgery - Wray, David 2003
18. An introduction to orthodontics - Laura Mitchell, Simon J. Littlewood, Zararna NelsonMoon, Fiona Dyer 2013
19. Understanding periodontal diseases: assessment and diagnostic procedures in practice - Chapple, Iain L., Gilbert, Angela D., Wilson, Nairn H. F.2002
20. Successful periodontal therapy: a non-surgical approach
    - Heasman, Peter A., Preshaw, Philip, Robertson, Pauline 2004
21. A clinical guide to periodontology - Palmer, Richard M., Ide, Mark, Floyd, Peter D. 2013
22. Dental caries: the disease and its clinical management - Fejerskov, Ole, Kidd, Edwina A. M. 2008 Paediatric dentistry - Richard Welbury, Monty S. Duggal, Marie Thérèse Hosey 2012
23. Radiation Protection: Guidelines on radiation protection in dental radiology: The safe use of radiographs in dental practice. - European Commission 2004 Interpreting dental radiographs - Horner, Keith, Rout, P. G. J., Rushton, V. E., Wilson, Nairn H. F. 2002 Essentials of dental radiography and radiology - Whaites, Eric, Drage, Nicholas 2013
24. Essential medicine - Jones, John Vann, Tomson, C. R. V.,
25. Read, Alan E. 1998

	26. .Kumar & Clark's clinical medicine - Kumar, Parveen J., Clark, Michael L. 2012 27. Cawson's essentials of oral pathology and oral medicine - Cawson, R. A., Odell, E. W. 2008 28. Underwood's pathology: a clinical approach - 29. Cross, Simon S., Underwood, J. C. E. c2013 - . 30. Robbins and Cotran pathologic basis of disease - 31. Kumar, Vinay, Robbins, Stanley L. 2009 32. Essentials of pathology for dentistry - McMahon, . 33. Essentials of pathology - .R. F. T., Sloan, P. 2000 Mitchinson, M. J. 1996
Electronic Materials	• Delivering better oral health: an evidence-based toolkit for prevention Third edition
Other Learning Materials	

9.2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	- Classroom / EBL rooms/ Clinics / Labs
Technology Resources (AV, data show, Smart Screen, software, etc.)	- PCs + Data Show + Smart Screen
Other Resources (Specify, e.g., if specific laboratory equipment is required, list requirements or attach a list)	- Internet Connection

10. Matrix of course ILOS and the course content

S	Items	Details	Basic knowledge	Intellectual skills	Professional skills	General skills

	Course contents	**Fixed prosthodontics**		b.1,b.3	c.1,c.2,c.3,c.6 c.12	d2,d.3
		Removable prosthodontics		b.1,b.3	c.1,c.2,c.3,c.6 c.12	d2,d.3
		Dental materials	a.2		c.13	
		Operative Dentistry		b.1,b.3.b.4	c.1,c.2,c.3,c.6 c.13	d2,d.3
		Senor operative skill course		b.1,b.3.b.4	c.1,c.2,c.3,c.6 c.13	d2,d.3
		Endodontics		b.1,b.3	c.1,c.2,c.3,c.6 c.8	d2,d.3
		Oral surgery				d2,d.3
		Oral medecine		b.1,b.3	c.1	d2,d.3
		Oral radiology		b.1	c.1,c.6	
		Oral pathology	a.1,a.3,a.4,a.5,a.7 a.8	b.7,b.8		
		Pediatric dentistry	a.6	b.1,b.3,b.4	C1,c.13,c.15,c.17	d2,d.3
		Orthodontics		b.3,b.5,b.6,b.7	c.1,c.6	d.3,d.4
		Public		B1,b.2	c.18	
		GDP			c.5	d2,d.3
2	**Teaching and learning methods**	**symposia**				
		EBL/Problem based learning	a.1,a.3,a.4,a.5,a.7 a.8,a.9,a.10,a.11 a.12,a.13,a.14	b.8,b.7		d.1
		Laboratory practical			c.1-c.18	
		Clinical sessions			c.1,c.2,c.3,c.6 c.12, c.13,c.15,c.17	d.2,d.3 d.4
		GDP Assignment			c.5	d2,d.3
3	Activities and sources of	**EBL**	a.1,a.3,a.4,a.5,a.7 a.8,a.9,a.10,a.11 a.12,a.13,a.14	b.8,b.7		d.1

	teaching and learning	**KPT (Key procedural test)**			c.1-c.18	
		EBl sessions	a.1,a.3,a.4,a.5,a.7 a.8,a.9,a.10,a.11 a.12,a.13,a.14	b.8,b.7		d.1
		GDP assignment			c.5	d2,d.3
4	Student assessment	**Key Procedure Test (KPT) as an Ongoing clinical assessment**			c.1-c.18	
		MCQ exam(formative and summative)	a.1,a.3,a.4,a.5,a.7 a.8,a.9,a.10,a.11 a.12,a.13,a.14	b.1,b.3.b.4		
		SAP exam(formative and summative)	a.1,a.3,a.4,a.5,a.7 a.8,a.9,a.10,a.11 a.12,a.13,a.14	b.1,b.3.b.4		
		OSCE(formative and summative)			c.1,c.2,c.3,c.6 c.12, c.13,c.15,c.17	d.1-d.4

Matrix of Year course ILOs and program ILOs:

Course ILOs	Program ILOs								
	A. Knowledge and understanding								
	A. 1	A. 2	A. 3	A. 4	A. 5	A. 6	A. 7	A. 8	
a.1				√					
a.2									
a.3									
a.4									
a.5	√								
a.6							√		
a.7								√	
a.8								√	
a.9									
a.10				√					
a.11				√					
a.12	√								
B. Intellectual skills									

	B. 1	B. 2	B. 3	B. 4	B. 5	B. 6	B. 7	B. 8	
b.1	√	√							
b.2			√					√	
b.3								√	
b.4	√	√							
b.5	√	√							
b.6						√			
b.7								√	
b.8								√	

c. Professional and practical skills

	C. 1	C. 2	C. 3	C. 4	C. 5	C. 6	C. 7	C. 8	C. 9	C. 10	C.11	
c.1	√	√										
c.2		√	√									
c.3		√										
c.4			√	√								
c.5				√								
c.6						√	√					
c.7						√						
c.8					√							

c.9								√				
c.10								√				
c.11								√				
c.12					√		√					
c.13					√		√					
c.14					√		√					
c.15					√		√					
c.16								√				
c.17					√							
c.18					√							

d. General and transferable skills

	D. 1	D. 2	D. 3	D. 4	D. 5	D. 6	D. 7	D. 8	D. 9	D. 10	D. 11	D. 12	
d.1		√											
d.2		√											
d.3	√												
d.4									√	√	√	√	

11. Student Academic Counseling and Support

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

- Year director.

Dr. Mohamed Elayeh

- Year coordinators

Dr. Cristian Raouf

Dr. Nesma Soltan

Program Director

Prof. Dr/ Abeer Abdelatief

Mansoura Manchester Dental Program

Year specification

3rd year

2021/2022

Year Specification

Program Name	**Mansoura Manchester Dental Program**
Program	Bachelor of Dental science-MMDP
Year Title	**3rd year MMDP**
Year Code	MMDPY3
Academic year	2024-2025

1. Course Identification

Course Title	**3rd year MMDP**
Course Code	MMDPY3
Program	Bachelor of Dental Science MMDP
Number of hours	1200 /national hours

2. Course Description & Objectives

• **Course Description**	The scientific content with different disciplines provide the students with essential and high level of communication skills and professionalism. Student will be able to on holistic patient care, with an emphasis on the diagnosis and treatment planning of cases across all clinical specialties and on managing your final year cases to the very highest standard.
• **Course Objective**	By the end of this course student will be able to; 1. Understand the complex issues involved in the scientific basis of dentistry. 2. Apply intellectual skills, knowledge, and behavior in the field of dentistry. 3. Reflective, committed to lifelong learning 4. Treat integrated cases in a professional manner. 5. Understand knowledge and professionalism for referral of cases that need special care. 6. Lead a team and managing any conflict within the team. 7. Deal professionally with patients, staff and professionals colleagues.

3. Intended Learning Outcomes (ILOS) of the course

a	**Knowledge and understanding**
a.1	Demonstrate an understanding of the impact of micro-organisms on the mouth.
a.2	Demonstrate an understanding of the properties of contemporary dental materials that the student is likely to use in this stage of training to restore the function of the mouth and understand how these relate to their clinical applications.
a.3	Demonstrate the ability to define the role of inheritance in dental health and disease.
a.4	Demonstrate an understanding of the principles in monitoring facial growth and development.
a.5	Demonstrate the ability to describe fetal and embryonic development of the mouth and teeth. Demonstrate the ability to describe fetal and embryonic development of the mouth and teeth.
a.6	Demonstrate an understanding of the psychological development of children and its relevance to dentistry.
a.7	Demonstrate an understanding of how and why pharmaceutical agents likely to be encountered or used in patients attending for dental treatment are administered.
a.8	Demonstrate understanding of the principles of action of pharmaceutical agents likely to be encountered in or used in patients attending for dental treatment and an understanding of possible interactions.
a.9	Demonstrate understanding of how anti-microbial agents that a dentist can prescribe work.
a.10	Demonstrate an understanding of the impact of micro-organisms on the human body.
a.11	Demonstrate understanding of the significance of the nature and variety of micro-organisms that interact with man in health and disease.
a.12	Demonstrate understanding of how disease is manifested and evaluate its impact on the practice of dentistry
b	**Intellectual skills**
b.1	Demonstrate an understanding of how bias can influence the results and significance of clinical dental research.
b.2	Demonstrate understanding of how the differences between clinical and statistical significance impact on interpretation of the literature.
b.3	Demonstrate the knowledge to enable them to design an evaluation of a preventive intervention used within a primary care setting.
b.4	Demonstrate the knowledge required and the ability to undertake and interpret a dietary record in relation to caries risk assessment and treatment planning
b.5	Demonstrate the ability to identify alterations to normal facial, occlusal and dental development and understanding of the procedures to intercept and treat developing and evident anomalies
b.6	Demonstrate the ability to explain the postnatal growth and development of the mouth, teeth and occlusion
b.7	Demonstrate the ability to describe disorders of growth and their impact on the practice of dentistry.
b.8	Demonstrate the ability to describe general fetal and embryonic development relevant to the practice of dentistry
c	**Professional and Practical skills**

c.1	Demonstrate the ability to explain the different clinical tasks that can be carried out by members of the dental team and understand that the patient is a key member of the dental team with an important role in their treatment planning.
c.2	Demonstrate an understanding of the theory and practice of clinical photography and the use of a clinical camera to take appropriate images.
c.3	Demonstrate the ability to assess the results of clinical photography and modify their practice accordingly.
c.4	Demonstrate the ability to use software packages to download and manipulate appropriate images.
c.5	Demonstrate the ability to apply the skills acquired in the ICDL to produce a PowerPoint presentation.
c.6	Demonstrate competence in simple intra and extra-oral imaging techniques used in contemporary clinical practice.
c.7	Demonstrate that they have performed simple endodontic techniques under close supervision.
c.8	Demonstrate competence in simple endodontic techniques and operative techniques for direct restorations in a skills laboratory.
c.9	Demonstrate that they have seen periosteal flaps raised and suturing techniques for soft tissue closure in the oral environment.
c.10	Demonstrate that they have used forceps to remove permanent teeth under close supervision.
c.11	Demonstrate that they have performed the non-surgical procedures used in the management of periodontal diseases
c.12	Demonstrate that they have performed the clinical stages relating to the replacement of missing teeth using fixed prostheses under close supervision in Clinical Skills
c.13	Demonstrate that they have placed direct restorations adults in harmony with oral health.
c.14	Demonstrate that they have made impressions in adults and children using contemporary dental materials
c.15	Demonstrate they have prepared teeth in children and adults appropriately for indirect and direct restorations using contemporary dental materials
c.16	Demonstrate competence in the techniques required for administration of local anesthesia, including regional, topical and infiltration techniques, to enable the effective delivery of dental treatment.
c.17	Demonstrate the ability to work safely alongside dental care professionals. demonstrate the ability to competently prepare child patients comfortably and safely in readiness for relevant dental procedures
c.18	Demonstrate the ability to competently handle dental instruments and materials used at this stage of their training safely and in accordance with current cross infection guidelines.
d	**General and transferable skills**
d.1	Demonstrate the ability to apply communication skills to discuss treatment plans with patients.
d.2	Demonstrate the ability to apply communication skills to discuss treatment plans with patients

d.3	Demonstrate the ability to use communication skills including active listening to take a history from children of varying ages and their parents / carers, including the ability to identify and handle a concern about child protection
d.4	Demonstrate the ability to have a caring and safe approach to adult and child patients both in communicating and in delivering treatment procedures recognizing issues related to equality and diversity, and to show a positive attitude towards diversity through the management of patients from different ethnic and social backgrounds, and with impairments

4. Course Content

Course Contents	Symposia	Seminars
Removable Prosthodontics	Introduction to Partial denture /classification	
	Biomechanics of RPD	
	Denture base /rests	
	Connectors	
	Direct retainers	
	Attachments in RPD	
	Stress breakers in RPD	
	Principles of RPD design	
	Dental surveyor	
	RPD clinical diagnosis and treatment planning	
	Clinical management of free end saddle cases	
	Clinical management of bounded saddle cases	
Fixed Prosthodontics	Principles of tooth preparation	
	Metal ceramic crown preparation	
	All ceramic crown preparation	
	Laboratory aspects of crown and bridge	
	Bridge design	
	Shade and color selection	
	Treatment of endodontically treated teeth	
	Pontics	
Dental Biomaterial	Biomaterials, safety and biocompatibility	
	Structure of ceramics	

	Structure of metals and alloys	
	Principles of adhesion	
	Conventional Dental Cements and Luting agents	
	Glass–ionomer cements and resin-modified glass–ionomer cements	
	Pulp Capping materials	
Operative	Cariology 1	
	Cariology 2	
	Cariology 3	
	Anterior composite restorations	
	Posterior composite restorations	
	Bonding	
Public Dentistry	Fluoride 1	
	Fluoride 2	
	Pits and fissure sealant	
	Evidence based dentistry	
Endodontics	Diagnosis and treatment planning 1	
	Diagnosis and treatment planning 2	
	Pulp and periapical pathosis 1	
	Pulp and periapical pathosis 2	
Oral and Maxillofacial Surgery	Principles of Oral Surgery (I)	
	Local Anesthetic (I)	
	Local Anesthetic: Maxillary techniques	
	Local Anesthetic: Mandibular techniques	
	Local Anesthesia : Complications	
	Closed Extraction	
	Oral cancer	
	Management of medically compromised patients	
	Introduction of dental implants	
	Principles of Oral Surgery (I)	

Orthodontics	Craniofacial growth	
	Development of normal occlusion	
	Biology of orthodontic tooth movement	
	Etiology of malocclusion	
	Preventive orthodontics	
	IOTN	
	Removable appliances	
	The scope and limitations of fixed appliances	
Pediatric Dentistry	Introduction into pediatric dentistry	
	Dental caries in children & adolescents Part I	
	Dental caries in children & adolescents Part II	
	Eruption and early loss of primary teeth part I	
	Eruption and early loss of primary teeth part II	
	Radiographic examination of children's dentition part I	
	Radiographic examination of children's dentition part II	
	Dental anomalies part I	
	Dental anomalies part II	
	Trauma I (primary teeth trauma) part I	
	Trauma I (primary teeth trauma) part II	
	Pediatric restorative dentistry; traditional approach part I	
	Pediatric restorative dentistry; traditional approach part II	
	Pediatric restorative dentistry; traditional approach part III	
Oral Medicine	Laboratory investigations	
	Biopsy	
	Prescription	

Oral Radiology	Normal anatomy of the maxilla	
	Normal anatomy of the mandible	
	Principals of radiographic interpretation	
	Dental Film	
	Digital Radiography	
	Bitewing &Occlusal &Object localization techniques	
	Periapical film errors	
	Panoramic Radiography	
	Radiographic appearance of dental caries	
	Radiographic appearance of periodontal diseases	
	Radiolucency of the jaws 1	
	Cysts in the jaws	
	Radiopacities of the jaws	
	Mixed lesions of the jaws	
	Soft tissue calcifications	

Clinical Contents	Clinical Topics
Removable Prosthodontics	Introduction to Partial denture /classification
	Components in RPD (symposia)
	Dental surveying (symposia)
	Mouth prep On casts
	Mouth prep on dummy heads in sim lab
	Master cast preparation
	Class I demo
	Class II demo
	Class III demo
	Class IV demo
	Clinically:

	One case complete denture
	One case Partial denture acrylic
Fixed Prosthodontics	Porcelain veneers
	Resin bonded crown
	Full gold crown
	Temporary crown
	Metal ceramic crown
	Gold onlay
	Ceramic onlay
	All ceramic crowns
	Impression and occlusal registration
Operative Dentistry	Class I composite restoration
	Class II composite restoration
	Class III composite restoration
	Class IV composite restoration
Periodontology	Scaling for mandibular incisor area
Endodontics	Access cavity preparation
	Cleaning and shaping
	Canal obturation
Oral and Maxillofacial Surgery	Anatomy
	Armamentarium
	Basic injection technique
	Supra-periosteal injection
	Inferior alveolar block injection
	Extraction forceps
	Sterilization and infection control
Orthodontics	Wire exercise
	Z spring
	Adam clasp
	Short labial bow
	w/q helix
Pediatric Dentistry	Class I, II amalgam and composite
	Class V and full crown preparation
	Hall technique
Oral Medicine	Diagnosis & Examination
Oral Radiology	Periapical x-ray for individual teeth
	Bitewing x-ray

EBL CASES	Symposia	Discipline
	Normal development of lip and palate	**Bioscience**
	Surgical and prosthetic management of cleft lip and palate	
	Normal tooth development	
	Normal tooth development	

5. Contact Hours

No	Activity	Contact Hours
1	**Lecture**	10hrs/week
2	**Laboratory/clinical (Practical)**	15hrs/week
3	**EBL**	2hrs/week
4	**Self- learning/ material collection**	4hrs/week
4	**Office hours**	2hrs/week
	Total	33hrs/week

6. Teaching and learning methods

(Alignment of Teaching Methods with ILOS)

S	Method	Basic knowledge	Intellectual skills	Professional skills	General
skills					
1	symposia	√	√		
2	EBL/Problem based learning	√	√		√
3	Laboratory practical	√		√	√

7. Teaching and learning methods of disables

None

8. Student Assessments

8.1. Assessment Methods

(Alignment of Assessment Methods with ILOS)

No	Method	Basic knowledge	Intellectual skills	Professional skills	General
skills					
1	EBl sessions	√	√		√
2	GDP assignment	√		√	√
3	Key Procedure Test (KPT) as an Ongoing clinical assessment	√	√	√	
4	MCQ exam(formative and summative)	√	√	√	
5	SAP exam(formative and summative)	√	√	√	
6	OSCE(formative and summative)	√	√	√	√
No	Method	Basic knowledge	Intellectual skills	Professional skills	General

8.2. Assessment length, degree, and proportion of total Assessment Score

Assessment schedule		
No	Method	Week
1	EBl sessions	NO assessment in third year but discussion is done at the end of the third session for every case
2	GDP assignment	At the end of the 1st semester
3	Key Procedure Test (KPT) as an Ongoing clinical assessment	Continuous assessment during the year
4	Formative (MCQ,SAP,OSCE)	At the end of the 1st semester
5	Summative (MCQ,SAP,OSCE)	At the end of the 2nd semester
Weighting of assessments		
No	Method	Weight
1	GDP Assessment	180/940= 19.1%
2	MCQ	230/940 =24.4%
3	SAP	230/940=24.4%
4	OSCE	300/940= 32%
Total		100%

9. Learning Resources and Facilities

9.1. Learning Resources

Required Textbooks	1. Introduction to dental local anaesthesia - Evers, Hans, Haegerstam, Glenn, Håkansson, Lennart 1990 2. Sturdevant's art and science of operative dentistry - 3. Heymann, Harald, Swift, Edward J., Ritter, Andre V., Sturdevant, Clifford M. 2013 4. Introduction to dental materials - Noort, Richard van, Barbour, Michele E. c2013 5. Craig's restorative dental materials - Sakaguchi, Ronald L., Powers, John M. c2012 6. Textbook of endodontology - Bergenholtz, Gunnar, Hørsted-Bindslev, Preben, Reit, Claes 2010 Harty's endodontics in clinical practice - Chong, Bun San, Harty, F. J. 2010 7. Essential endodontology: prevention and treatment of apical periodontitis - Ørstavik, Dag, Pitt Ford, T. R. 2008 Principles of operative dentistry - Qualtrough, Alison Jane Elisabeth c2005

8. Removable Partial Dentures: A Clinician's Guide - John D. Jones, Lily T. Garcia 2009 (electronic resource)
9. A clinical guide to complete denture prosthetics - J.
10. Fraser McCord, Alan A. Grant, British Dental Association 2000
11. Treatment of edentulous patients - J. Fraser McCord, Phillip Smith, Nicholas Grey 2004 Fundamentals of fixed prosthodontics - Shillingburg, Herbert T. c2012
12. Planning and making crowns and bridges - Bernard G. N. Smith, Leslie C. Howe 2007 Prosthetic rehabilitation - Keith F. Thomas 1994 A clinical guide to crowns and other extra-coronal Text book14 Page 14 of 18 restorations - R. W. Wassell, British Dental Association 2002 Essentials of complete denture prosthodontics - Sheldon Winkler 1994
13. Failure in the restored dentition: management and treatment - Michael D. Wise, Anthony Laurie 1995
14. Prosthodontic Treatment for Edentulous Patients: Complete Dentures and Implant-Supported Prostheses -
15. George A. Zarb, John Hobkirk, Steven Eckert, Rhonda Jacob 2013 (electronic resource)
16. Prosthodontic treatment for edentulous patients: complete dentures and implant-supported prostheses - George A. Zarb, Aaron H. Fenton2013
17. Management of medical emergencies for the dental team - Thornhill, Martin H., Pemberton, Michael N., Atherton, Guy J. 2005 Textbook of general and oral surgery - Wray, David 2003
18. An introduction to orthodontics - Laura Mitchell, Simon J. Littlewood, Zararna NelsonMoon, Fiona Dyer 2013
19. Understanding periodontal diseases: assessment and diagnostic procedures in practice - Chapple, Iain L., Gilbert, Angela D., Wilson, Nairn H. F.2002
20. Successful periodontal therapy: a non-surgical approach
    - Heasman, Peter A., Preshaw, Philip, Robertson, Pauline 2004
21. A clinical guide to periodontology - Palmer, Richard M., Ide, Mark, Floyd, Peter D. 2013
22. Dental caries: the disease and its clinical management - Fejerskov, Ole, Kidd, Edwina A. M. 2008 Paediatric dentistry - Richard Welbury, Monty S. Duggal, Marie Thérèse Hosey 2012
23. Radiation Protection: Guidelines on radiation protection in dental radiology: The safe use of radiographs in dental practice. - European Commission 2004 Interpreting dental radiographs - Horner, Keith, Rout, P. G. J., Rushton, V. E., Wilson, Nairn H. F. 2002 Essentials of dental radiography and radiology - Whaites, Eric, Drage, Nicholas 2013
24. Essential medicine - Jones, John Vann, Tomson, C. R. V.,
25. Read, Alan E. 1998

	26. .Kumar & Clark's clinical medicine - Kumar, Parveen J., Clark, Michael L. 2012 27. Cawson's essentials of oral pathology and oral medicine - Cawson, R. A., Odell, E. W. 2008 28. Underwood's pathology: a clinical approach - 29. Cross, Simon S., Underwood, J. C. E. c2013 - . 30. Robbins and Cotran pathologic basis of disease - 31. Kumar, Vinay, Robbins, Stanley L. 2009 32. Essentials of pathology for dentistry - McMahon, . 33. Essentials of pathology - .R. F. T., Sloan, P. 2000 Mitchinson, M. J. 1996
Electronic Materials	• Delivering better oral health: an evidence-based toolkit for prevention Third edition
Other Learning Materials	

9.2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	- Classroom / EBL rooms/ Clinics / Labs
Technology Resources (AV, data show, Smart Screen, software, etc.)	- PCs + Data Show + Smart Screen
Other Resources (Specify, e.g., if specific laboratory equipment is required, list requirements or attach a list)	- Internet Connection

10. Matrix of course ILOS and the course content

S	Items	Details	Basic knowledge	Intellectual skills	Professional skills	General skills
	Course contents	**Fixed prosthodontics**		b.1,b.3	c.1,c.2,c.3,c.6 c.12	d2,d.3

		Removable prosthodontics		b.1,b.3	c.1,c.2,c.3,c.6 c.12	d2,d.3
		Dental materials	a.2		c.13	
		Operative Dentistry		b.1,b.3.b.4	c.1,c.2,c.3,c.6 c.13	d2,d.3
		Senor operative skill course		b.1,b.3.b.4	c.1,c.2,c.3,c.6 c.13	d2,d.3
		Endodontics		b.1,b.3	c.1,c.2,c.3,c.6 c.8	d2,d.3
		Oral surgery				d2,d.3
		Oral medecine		b.1,b.3	c.1	d2,d.3
		Oral radiology		b.1	c.1,c.6	
		Oral pathology	a.1,a.3,a.4,a.5,a.7 a.8	b.7,b.8		
		Pediatric dentistry	a.6	b.1,b.3,b.4	C1,c.13,c.15,c.17	d2,d.3
		Orthodontics		b.3,b.5,b.6,b.7	c.1,c.6	d.3,d.4
		Public		B1,b.2	c.18	
		GDP			c.5	d2,d.3
2	**Teaching and learning methods**	**symposia**				
		EBL/Problem based learning	a.1,a.3,a.4,a.5,a.7 a.8,a.9,a.10,a.11 a.12,a.13,a.14	b.8,b.7		d.1
		Laboratory practical			c.1-c.18	
		Clinical sessions			c.1,c.2,c.3,c.6 c.12, c.13,c.15,c.17	d.2,d.3 d.4
		GDP Assignment			c.5	d2,d.3
3	Activities and sources of teaching and learning	**EBL**	a.1,a.3,a.4,a.5,a.7 a.8,a.9,a.10,a.11 a.12,a.13,a.14	b.8,b.7		d.1
		KPT (Key procedural test)			c.1-c.18	

		EBl sessions	a.1,a.3,a.4,a.5,a.7 a.8,a.9,a.10,a.11 a.12,a.13,a.14	b.8,b.7		d.1
		GDP assignment			c.5	d2,d.3
4	Student assessment	**Key Procedure Test (KPT) as an Ongoing clinical assessment**			c.1-c.18	
		MCQ exam(formative and summative)	a.1,a.3,a.4,a.5,a.7 a.8,a.9,a.10,a.11 a.12,a.13,a.14	b.1,b.3.b.4		
		SAP exam(formative and summative)	a.1,a.3,a.4,a.5,a.7 a.8,a.9,a.10,a.11 a.12,a.13,a.14	b.1,b.3.b.4		
		OSCE(formative and summative)			c.1,c.2,c.3,c.6 c.12, c.13,c.15,c.17	d.1-d.4

Matrix of Year course ILOs and program ILOs:

Course ILOs	Program ILOs								
	A. Knowledge and understanding								
	A. 1	A. 2	A. 3	A. 4	A. 5	A. 6	A. 7	A. 8	
a.1				√					
a.2									
a.3									
a.4									
a.5	√								
a.6							√		
a.7								√	
a.8								√	
a.9									
a.10				√					
a.11				√					
a.12	√								
B. Intellectual skills									

	B. 1	B. 2	B. 3	B. 4	B. 5	B. 6	B. 7	B. 8	
b.1	√	√							
b.2			√					√	
b.3								√	
b.4	√	√							
b.5	√	√							
b.6						√			
b.7								√	
b.8								√	

c. Professional and practical skills

	C. 1	C. 2	C. 3	C. 4	C. 5	C. 6	C. 7	C. 8	C. 9	C. 10	C.11	
c.1	√	√										
c.2		√	√									
c.3		√										
c.4			√	√								
c.5				√								
c.6						√	√					
c.7						√						
c.8					√							

c.9								√				
c.10								√				
c.11								√				
c.12					√		√					
c.13					√		√					
c.14					√		√					
c.15					√		√					
c.16								√				
c.17					√							
c.18					√							

d. General and transferable skills

	D. 1	D. 2	D. 3	D. 4	D. 5	D. 6	D. 7	D. 8	D. 9	D. 10	D. 11	D. 12	
d.1		√											
d.2		√											
d.3	√												
d.4									√	√	√	√	

11. Student Academic Counseling and Support

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

- Year director.

Dr. Mohamed Elayeh

- Year coordinators

Dr. Cristian Raouf

Program Director

Prof. Abeer abdelatief

Mansoura Manchester Dental Program

Year specification

4th year

2024/2025

Year Specification

Program Name	**Mansoura Manchester Dental Program**
Program	Bachelor of Dental science-MMDP
Year Title	**4th year MMDP**
Year Code	MMDPY4
Academic year	2024-2025

1. Course Identification

Course Title	**4th year MMDP**
Course Code	MMDPY4
Program	Bachelor of Dental science-MMDP
Number of hours	1200 /national hours

2. Course Description & Objectives

• **Course Description**	The scientific content with different disciplines provide the students with essential and high level of communication skills and professionalism. Student will be able to on holistic patient care, with an emphasis on the diagnosis and treatment planning of cases across all clinical specialties and on managing your final year cases to the very highest standard.
• **Course Objective**	By the end of this course student will be able to; **01.** Has the knowledge to have a critical understanding of the complex issues involved in the scientific basis of dentistry; **02.** Can apply intellectual skills, knowledge, and behaviours in the field of dentistry; **03.** Can be reflective, committed to lifelong learning. **04.** Take a patient-centred approach to clinical care within the dental team; **05.** Apply clinical skills, knowledge, and behaviours in independent dental practice.

3. Intended Learning Outcomes (ILOS) of the course

a	**Knowledge and understanding**
a.1	demonstrate understanding of the properties of dental materials and the influence of their properties on the uses of them that the student is likely to encounter in this stage of training.
a.2	demonstrate understanding of the potential contribution of psychology to dentistry and the ability to apply it in the management of patients and in teamworking.
a.3	demonstrate a critical understanding of the risks and benefits of the range of imaging techniques used in dentistry.
a.4	demonstrate knowledge of, and that they have seen, fixed orthodontic appliances used to treat orthodontic malocclusions.
a.5	demonstrate an understanding of the practice of triage in the management of acutely ill patients.
b	**Intellectual skills**
b.1	demonstrate the ability to identify alterations to normal facial, occlusal and dental development and the procedures to intercept and treat developing and evident anomalies.
b.2	demonstrate the ability to identify and evaluate published articles, understand the strength of evidence represented, synthesise the results and draw appropriate conclusions in the light of the body of the dental literature.
b.3	demonstrate the ability to evaluate and critically appraise the evidence base for undertaking common dental procedures in the light of the epidemiology and prevalence of oral disease.
b.4	demonstrate the ability to interpret and understand the significance of the medical, therapeutic, dental and social history and identify necessary courses of action.
b.5	demonstrate the ability to synthesise clinical findings to identify differential diagnoses and identify appropriate investigation.
b.6	demonstrate the ability to understand, interpret and act upon the results and reports from special tests commonly requested in dentistry.
b.7	demonstrate the ability to interpret the results of diagnostic imaging and synthesise these with the clinical findings.
c	**Professional and Practical skills**
c.1	demonstrate the ability to competently handle a wide range of dental instruments and materials used at this stage of their training safely and demonstrating an understanding of the rationale and implementation of current cross infection guidelines.
c.2	demonstrate the ability to prevent and manage medical emergencies that may occur in dental practice and demonstrate the ability to perform basic life support procedures.
c.3	demonstrate the ability to input, import and analyse complex data sets with SPSS using skills acquired in the ECDL
c.4	demonstrate competence in the theory and practice of clinical photography.
c.5	demonstrate competence in eliciting medical, therapeutic, dental and social history and undertake relevant examinations of the clothed patient including extra oral and intra oral examination.
c.6	demonstrate competency in undertaking common diagnostic imaging procedures applying the provisions of the Ionising Radiation (Medical Exposure) Regulations as appropriate.

c.7	demonstrate competency in performing the techniques of intramuscular injection in sites relevant to the practise of dentistry.
c.8	demonstrate competence in preparing teeth in children and adults appropriately for indirect and direct restorations using contemporary dental materials.
c.9	demonstrate competence in placing indirect and direct restorations in children and adults in harmony with oral health.
c.10	demonstrate competence in performing the procedures used in the management and treatment of periodontal diseases.
c.11	demonstrate competence in removing permanent and primary teeth.
c.12	demonstrate the ability to raise periosteal flaps and remove bone where indicated for teeth and roots requiring surgical intervention under supervision.
c.13	demonstrate the ability to utilise appropriate suturing techniques for soft tissue closure in the oral environment under supervision.
c.14	demonstrate the ability to identify, and undertake relevant procedures to manage, developing and manifest problems related to the occlusion
c.15	demonstrate competency in the clinical stages relating to the replacement of missing teeth using either removable of fixed appliances.
c.16	demonstrate the ability to fit and adjust removable appliances (splints / retainers / simple orthodontic appliances) used in dentistry.
c.17	demonstrate competency in preparing appropriate access cavities for the treatment of single and multi rooted permanent teeth
c.18	demonstrate competency in the clinical procedures to treat vital and non-vital pulp in permanent teeth using contemporary techniques and materials.
d	**General and transferable skills**
d.1	demonstrate the ability to prepare and present a 'conference style' presentation using ICT skills.
d.2	demonstrate the ability to apply communication skills to discuss and negotiate complex treatment plans with adult and child patients, including those with special needs.
d.3	demonstrate the ability to appropriately obtain informed consent for dental procedures for children and adults including those with special needs.
d.4	demonstrate the ability to use communication skills to make appropriate referrals to colleagues including those within the dental team.
d.5	demonstrate the ability to modify their communication appropriately for history taking of patients with special needs.
d.6	demonstrate the ability to work effectively with the dental nurse and other colleagues.
d.7	demonstrate an understanding of the indications and mechanisms for a referral to a Specialist/DCP.

4. Course Content

Objective	Symposia	Clinical seminars
Fixed Prosthodontics	Provisional restoration	Diagnosis related to fixed prosthodontics part I&II
	Treatment planning in Fixed Prosthodontics part I&II	
	Retainers in fixed prosthodontics part I&II	
Removable Prosthodontics	Diagnosis and Treatment Planning for Partially Edentulous Cases part I&II	
	Occlusal Relationship Registration for RPD	
	Mouth Preparation part I&II	
	Impression Technique	
	RPD Insertion	
	Problems of RPD	
	Management of Resorbed Mandibular Ridge I&II	
	Management of Combination Syndrome	
	Tooth Supported Overdentures I&II	
Conservative dentistry	Treatment planning part I&II	
	Aesthetics part I&II&III	
	Aesthetics part IV&V	
Paediatric dentistry	Modern Management of Caries I&II	
	Deep Caries Management I&II	
	Dental Space Management I&II	
	Trauma I&II	
	Special Needs I&II&III	
Orthodontics	Normal Adult Occlusion	
	Interceptive Orthodontics	
	Methods of Gaining Space	
	Fixed vs removable appliances I&II	
	Growth Modification	
	Functional Appliances	
Endodontics	Trauma I&II	
	Internal and external root resorption	
	Clinical management of root resorption (internal and external) I&II	
	Endodontic Mishaps	
General Medicine & General Surgery	Cardiology in relation to dentistry part I&II	
	Respiratory Disease in relation to Dentistry	
	Viral Hepatitis, Liver Disease, HIV and Other Relevant Infectious Diseases"	
	Renal diseases in relation to dentistry	

	Shock part I&II	
	Management of polytraumatized patients	
	Allergy & Anaphylaxis	
	Neurology in relation to dentistry	
	Applied Cases	
	Anaemia	
	Haematology in Relation to Dentistry	
	Rheumatology Disorders in relation to dentistry I&II	
	Sedation In Dentistry	
	Endocrinal Disorders	
	Complication in Surgery	
	Oncology in Relation to Dentistry	
	Revision	
	ENT in Relation to Dentistry	
	GIT Disorders	
	Psychology in Relation to Dentistry	
Oral Medicine	White lesions part I&II&III&IV&V&VI	
	Infections of the Oral Cavity I&II&III&IV&V&VI	
	Oral Ulceration I&II&III&IV&V	
Oral Radiology	Radiation dose and risk	
	Radiation Physics and x-ray machine I&II	
	Fundamentals of Radiation Protection	
	Optimization of Protection of Patients in Dental Radiology	
	Quality Assurance in Dental Radiology	
	Fundamentals of CT and CBCT	
	Justifications and guidelines on selection of radiographs	
	Trauma	
	Minor oral surgery and flab design part I&II	
	Impacted and Unerupted Teeth part I&II&III	
Oral Surgery	Management of Patients with Cleft lip and palate	
	Facial deformity and orthognathic surgery	
	Oral Surgery and the Elderly	
	Medical emergency in dental practice	
	Dental and Maxillofacial Trauma I&II	
	Cysts of the Jaw I&II	
	Complications in Oral Surgery I&II	
Periodontology	Treatment Planning in Periodontology	
	Surgical Treatment of Periodontal Diseases	
	Periodontal Flaps	
	gingivectomy and Crown Lengthening I&II	
	Periodontal Regeneration I&II	

Dental Biomaterials	Dental Porcelain	
	Porcelain Fused to Metals	
	All ceramics	

Clinical Contents	Clinical Topics
Removable Prosthodontics	Diagnosis and treatment planning
	Primary impression for partially edentulous cases
	Designing and mouth prep. on acrylic teeth (free end cases)
	Designing and mouth prep. on acrylic teeth (bounded cases)
	Intraoral mouth prep.
	Secondary impression
	Metal try in
	Jaw relation
	Try in
	Insertion
	Abutment preparation for tooth overdenture
	Impression for tooth overdenture
Fixed Prosthodontics	Provision of metal ceramic/ ceramic crown preparation on patients
	Follow up on metal ceramic crown / ceramic preparation on patients
Conservative Dentistry	Provision of direct restoration “amalgam or composite” on adult patients
	Follow up of provision of direct restoration “amalgam or composite” on adult patients
Periodontology	Management of Periodontal disease on adult patients
Endodontics	Revision on Endodontic Techniques
	Endodontic treatment on acrylic teeth
	Endodontic treatment on adult patients /single rooted teeth
Oral and Maxillofacial Surgery	Revision: Anatomy (Maxillary & Mandibular nerves)
	Revision: Armamentarium of local anesthesia
	Revision: Techniques of local anesthesia
	Revision: Positions (patient &surgeons) and Forceps.
	Extraction
Orthodontics	Clinical examination
	Classification of malocclusion
	Diagnostic aids

Pediatric Dentistry	Class I amalgam
	Class II amalgam
	Class I composite
	Class II composite
	URE pulpotomy
	LLE pulpotomy
	St. St. crown
	Zirconia crown
Oral Medicine	White lesions
	Oral ulcerations
	Orofacial pain
	Infections of the oral cavity
Oral Radiology	Radiation Protection
	Differential diagnosis of radiolucent lesions
	Radiographic appearance of caries and periodontal diseases
General Medicine & surgery	Suturing
	Injection

Course work content	Symposia	Discipline
Critical appraisal topic (CAT)	Study designs part I&II	**Dental Public Health**
	Risk of bias	
	Training on risk of bias	
	Introduction to systemic review	
	Systemic review process	
	A critical appraisal tool of systemic review (AMSTAR)	
	Meta analysis I&II	

5. Contact Hours

No	Activity	Contact Hours
1	**Lecture**	8hrs/week
2	**Laboratory/clinical (Practical)**	14hrs/week
3	**EBL**	2hrs/week
4	**Self- learning/ material collection**	4hrs/week
4	**Office hours**	2hrs/week
	Total	30hrs/week

6. Teaching and learning methods

(Alignment of Teaching Methods with ILOS)

No	Method	Basic knowledge	Intellectual Skills	Professional Skills	General Skills
1	Lectures/Symposia	√	√		
2	EBL/Problem based learning	√	√	√	√
3	Clinical / practical sessions	√		√	√
4	Seminars	√	√	√	√

7. Teaching and learning methods of disables

None

8. Student Assessments

8.1. Assessment Methods

(Alignment of Assessment Methods with ILOS)

No	Method	Basic knowledge	Intellectual Skills	Professional Skills	General Skills
1	EBL	√	√		√
2	Case presentation	√	√	√	
3	KPT Exam	√	√	√	√
4	Critical appraisal topic (CAT)	√	√		√
5	General OSCE Exam	√	√	√	√
6	Medicine & surgery OSCE Exam	√	√	√	√
7	MCQ Exam (Formative and Summative)	√	√		
8	SAP Exam (Formative and Summative)	√	√		

8.2. Assessment length, degree, and proportion of total Assessment Score

No	Method	Week
1	EBL	At 2nd session of EBL cases (10 cases during the year)
2	Case presentation	During 2nd Semester
3	KPT Exam	During 2nd Semester
4	Critical appraisal topic (CAT)	During 1st and 2nd Semester
5	General OSCE Exam	At the end of year
6	Medicine & surgery OSCE Exam	At the end of year
7	MCQ Exam (Formative and Summative)	At the end of year
8	SAP Exam (Formative and Summative)	At the end of year
No	**Method**	**Weight**
1	EBL	Pass/Fail
2	Case presentation	Pass/Fail
3	KPT Exam	Pass/Fail
4	Critical appraisal topic (CAT)	250/1070=23.33%
4	General OSCE Exam	200/1070=18.7%
5	Medicine & surgery OSCE Exam	120/1070=11.3%
6	MCQ Exam (Formative and Summative)	250/1300=23.33%
7	SAP Exam (Formative and Summative)	250/1300=23.33%
Total		100%

9. Learning Resources and Facilities

9.1. Learning Resources

Required Textbooks	**Item**
	Introduction to dental local anaesthesia - Evers, Hans, Haegerstam, Glenn, Håkansson, Lennart 1990
	Sturdevant's art and science of operative dentistry - Heymann, Harald, Swift, Edward J., Ritter, Andre V., Sturdevant, Clifford M. 2013
	Introduction to dental materials - Noort, Richard van, Barbour, Michele E. c2013
	Phillips' science of dental materials 2013

Materials in dentistry: principles and applications - Ferracane, Jack L. 2001
Applied dental materials - McCabe, J. F., Walls, Angus 2008
Dental Materials and Their Selection - William J. O'Brien 2011 (electronic resource)
Biomaterials science: an introduction to materials in medicine - Ratner, B. D., Society for Biomaterials 2004
Biomaterials Science: An Introduction to Materials in Medicine - Buddy D. Ratner, Allan S. Hoffman, Frederick J. Schoen, Jack E. Lemons 2012(electronic resource)
Craig's restorative dental materials - Sakaguchi, Ronald L., Powers, John M. c2012

Underwood's pathology: a clinical approach - Cross, Simon S., Underwood, J. C. E. c2013

Underwood's pathology: a clinical approach - Cross, Simon S., Underwood, J. C. E. c2013

Textbook of endodontology - Bergenholtz, Gunnar, Hørsted-Bindslev, Preben, Reit, Claes 2010
Harty's endodontics in clinical practice - Chong, Bun San, Harty, F. J. 2010
Essential endodontology: prevention and treatment of apical periodontitis - Ørstavik, Dag, Pitt Ford, T. R. 2008
Principles of operative dentistry - Qualtrough, Alison Jane Elisabeth c2005
Principles of Operative Dentistry: The Fundamentals - A. J. E. Qualtrough, Julian Satterthwaite, Leean Morrow, Paul Brunton 2009 (electronic resource)
Endodontics in practice - Stock, C. J. R., Nehammer, C. F. 1990
Rational root canal treatment in practice - Whitworth, John M., Wilson, Nairn H. F. 2002
A clinical guide to oral diagnosis and treatment planning - Yip, Kevin H. K., Smales, Roger J., British Dental Association 2012

Overdentures in general dental practice - R. M. Basker, British Dental Association 1993
Saliva and oral health - Michael Edgar, Colin Dawes, D. M. O'Mullane 2004
A Colour atlas of removable partial dentures - J. C. Davenport c1989

A Clinical guide to removable partial dentures: the assessment and treatment of patients requiring RPDs - Davenport, J. C., British Dental Association 2000
A Clinical guide to removable partial denture design - J. C. Davenport, British Dental Association 2003
Complete dentures: from planning to problem solving - P. Finbarr Allen, Seán McCarthy 2012
Removable denture prosthodontics - Alan A. Grant, Wesley Johnson 1992
A clinical guide to temporomandibular disorders - R. J. M. Gray, S. J. Davies, A. A. Quayle, British Dental Association 1995
Removable Partial Dentures: A Clinician's Guide - John D. Jones, Lily T. Garcia 2009 (electronic resource)
A clinical guide to complete denture prosthetics - J. Fraser McCord, Alan A. Grant, British Dental Association 2000
Treatment of edentulous patients - J. Fraser McCord, Phillip Smith, Nicholas Grey 2004
Fundamentals of fixed prosthodontics - Shillingburg, Herbert T. c2012
Planning and making crowns and bridges - Bernard G. N. Smith, Leslie C. Howe 2007
Prosthetic rehabilitation - Keith F. Thomas 1994
A clinical guide to crowns and other extra-coronal restorations - R. W. Wassell, British Dental Association 2002
Essentials of complete denture prosthodontics - Sheldon Winkler 1994
Failure in the restored dentition: management and treatment - Michael D. Wise, Anthony Laurie 1995
Prosthodontic Treatment for Edentulous Patients: Complete Dentures and Implant-Supported Prostheses - George A. Zarb, John Hobkirk, Steven Eckert, Rhonda Jacob 2013 (electronic resource)
Prosthodontic treatment for edentulous patients: complete dentures and implant-supported prostheses - George A. Zarb, Aaron H. Fenton2013

Human disease for dentistry - Fortune, Farida 2004
Textbook of human disease in dentistry - Greenwood, M., Seymour, R. A., Meechan, J. G. 2009
Essential medicine - Jones, John Vann, Tomson, C. R. V., Read, Alan E. 1998

Management of medical emergencies for the dental team - Thornhill, Martin H., Pemberton, Michael N., Atherton, Guy J. 2005
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Operative dentistry: a practical guide to recent innovations - Devlin, Hugh 2006
Sturdevant's art and science of operative dentistry - Harald Heymann, Edward J. Swift, Andre V. Ritter, Clifford M. Sturdevant 2013
Essentials of dental caries: the disease and its management - Edwina A. M. Kidd
Preservation and restoration of tooth structure - Graham J. Mount, W. R. Hume 2005
Periodontal and occlusal factors in crown and bridge procedures - Pameijer, J.H.N. 1985
Principles of operative dentistry - Alison Jane Elisabeth Qualtrough c2005
Fundamentals of fixed prosthodontics - Shillingburg, Herbert T. c2012
Summitt's fundamentals of operative dentistry: a contemporary approach - James B. Summitt 2013
Planning and making crowns and bridges - Smith, Bernard G. N., Howe, Leslie C. 2007
Dental morphology: an illustrated guide - Geoffrey C. Van Beek 1983
Restorative dentistry - A. D. Walmsley c2007

An introduction to orthodontics - Laura Mitchell, Simon J. Littlewood, Zararna Nelson-Moon, Fiona Dyer 2013
Dental caries: the disease and its clinical management - Fejerskov, Ole, Kidd, Edwina A. M. 2008
Paediatric dentistry - Richard Welbury, Monty S. Duggal, Marie Thérèse Hosey 2012

Understanding periodontal diseases: assessment and diagnostic procedures in practice - Chapple, Iain L., Gilbert, Angela D., Wilson, Nairn H. F.2002
Successful periodontal therapy: a non-surgical approach - Heasman, Peter A., Preshaw, Philip, Robertson, Pauline 2004

	A clinical guide to periodontology - Palmer, Richard M., Ide, Mark, Floyd, Peter D. 2013 **Guidance Notes for Dental Practitioners on the Safe Use of X-Ray Equipment** **Master dentistry: Volume 1: Oral and maxillofacial surgery, radiology, pathology and oral medicine** - Coulthard, Paul 2013 **Radiation Protection: Guidelines on radiation protection in dental radiology: The safe use of radiographs in dental practice.** - European Commission 2004 **Interpreting dental radiographs** - Horner, Keith, Rout, P. G. J., Rushton, V. E., Wilson, Nairn H. F. 2002 **Essentials of dental radiography and radiology** - Whaites, Eric, Drage, Nicholas 2013 **Radiation Protection 172. Cone Beam CT for Dental and Maxillofacial Radiology. European Commission, 2012** **Operative Dentistry: A Practical Guide to Recent Innovations** - Devlin, Hugh 2006 **Preservation and restoration of tooth structure** - Mount, Graham J., Hume, W. R. 2005 **Principles of operative dentistry** - Qualtrough, Alison Jane Elisabeth c2005 **Fundamentals of fixed prosthodontics** - Shillingburg, Herbert T. c2012 **Summitt's fundamentals of operative dentistry: a contemporary approach** - James B. Summitt 2013 1.
Electronic Materials	• Guidelines for the orthodontic management of the traumatized tooth • Limiting Factors in Orthodontic Treatment: 1. Factors Related to Patient, Operator and Orthodontic Appliances • Limiting Factors in Orthodontic Treatment: 2. The Biological Limitations of Orthodontic Treatment • Dental trauma: an overview of its influence on the management of orthodontic treatment. Part 1 • Dental trauma: part 2. Managing poor prognosis anterior teeth – treatment options for the subsequent space in a growing patient • General Guidelines for Referring Dental Patients

	• A new classification scheme for periodontal and peri-implant diseases and conditions – Introduction and key changes from the 1999 classification • What's new in orthodontics? An update on contemporary clinical technologies • Technological Advances in Nontraditional Orthodontics • Interaction between the Orthodontist and the Pediatric Dentist-An Overview • Dental Care and Treatment of Children with Diabetes Mellitus - An Overview • International Association of Dental Traumatology Guidelines for the Management of Traumatic Dental Injuries: 2. Avulsion of Permanent Teeth • International Association of Dental Traumatology Guidelines for the Management of Traumatic Dental Injuries: 1. Fractures and Luxations • International Association of Dental Traumatology Guidelines for the Management of Traumatic Dental Injuries: 3. Injuries in the Primary Dentition
Other Learning Materials	

9.2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	- Classroom / EBL rooms/ Clinics / Labs
Technology Resources (AV, data show, Smart Screen, software, etc.)	- PCs + Data Show + Smart Screen
Other Resources (Specify, e.g., if specific laboratory equipment is required, list requirements or attach a list)	- Internet Connection

10. Matrix of course ILOS and the course content

Items	Details	Basic knowledge	Intellectual Skills	Professional Skills	General Skills
Year Contents	Removable prosthodontics			c.1, c.4, c.15, c.16	d.4, d.6, d,7
	Fixed prosthodontics			c.1 ,c.4, c.15	d.4, d.6, d,7
	Periodontology			c.1 ,c.4, c.10, c.12	d.4 , d.6, d,7
	Oral medicine		b.4, b.5	c.1 ,c.4, c.5,	d.4 , d.6, d,7
	Oral surgery			c.1 ,c.4, c11, c.13	d.4 , d.6, d,7
	Oral Radiology	a.3	b.7,	c.1 ,c.4, c.6,	
	Pediatric dentistry	a.2,		c.1 ,c.4, c.8, c.9, c.11	d.2, d.3, d.4, d.5 , d.6 d,7
	Orthodontics	a.4	b.1	c.1 ,c.4, c.14. c.16	d.4 , d.6 d,7 d,7
	Operative dentistry			c.1 ,c.4, c.8, c.9	d.4 , d.6
	Critically appraised topic		b.2, b.3,	c.3,	d.3
	Medicine &surgery	a.2, a.5	b.5, b.6,	c.2, c.7,	d.1,
	Dental materials	a.1,			
	Endodontics			c.17, c.18	d.4 , d.6 d,7
Teaching and Learning Methods	Lectures/Symposia	a. 1-5	b.1-7		
	EBL/Problem based learning	a. 1-5	b.1-7		d.1-7
	Laboratory/ practical	a. 1-5		C1-18	d.1-7

	Clinical Sessions			C1-18	
	Clinical attachment	a.2, a.5 a.2, a.5		c.2, c.7,	
	Skill lab. (M&S)			c.2, c.7,	
Activities and Sources of Teaching and Learning	EBL Sessions	a. 1-5	b.1-7		d.1-7
	Critically apprised topic		b.2, b.3,	c.3	d.3
	M&S presentation				d.3
	Clinical attachment			c.2, c.7,	
	Skill lab. training			c.2, c.7,	
Student Assessment	EBL sessions	a. 1-5	b.1-7		d.3
	Critically apprised topic		b.2, b.3,	c.3	d.3
	M&S presentation				d.3
	KPT			C.1-18	
	MCQ (Formative &summative exams)	a. 1-5	b.1-7		
	SAP Formative &summative exams)	a. 1-5	b.1-7		
	OSCE Formative &summative exams)	a. 1-5	b.1-7	C.1-18	

Matrix of Year course ILOs and program ILOs:

Course ILOs	Program ILOs								
	A. Knowledge and understanding								
	A. 1	A. 2	A. 3	A. 4	A. 5	A. 6	A. 7	A. 8	
a.1								√	
a.2						√			
a.3	√								
a.4								√	
a.5				√	√				
B. Intellectual skills									
	B. 1	B. 2	B. 3	B. 4	B. 5	B. 6	B. 7	B. 8	
b.1						√			
b.2	√								
b.3				√					
b.4		√							
b.5		√							
b.6							√		
b.7							√		
c. Professional and practical skills									

	C. 1	C. 2	C. 3	C. 4	C. 5	C. 6	C. 7	C. 8	C. 9	C. 10	C.11	
c.1					√							
c.2										√		
c.3				√							√	
c.4			√									
c.5	√											
c.6											√	
c.7								√				
c.8							√					
c.9							√					
c.10							√					
c.11								√				
c.12								√				
c.13				√								
c.14									√			
c.15						√						
c.16									√			
c.17												
c.18												

d. General and transferable skills

	D. 1	D. 2	D. 3	D. 4	D. 5	D. 6	D. 7	D. 8	D. 9	D. 10	D. 11	D. 12
d.1	√											
d.2		√				√						
d.3									√			
d.4										√		
d.5					√							
d.6							√					
d.7										√		

11. Student Academic Counseling and Support

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

Year Coordinator(s)

Dr/ **Ahmed Shams**

Dr/ **Mostafa Abdelshafi**

Year Director

Dr/ **Nesma Elgohary**

Program Director

Prof. Dr/ Radwa Emera

Mansoura Manchester Dental Program

Year specification

4th year

2023/2024

Year Specification

Program Name	**Mansoura Manchester Dental Program**
Program	Bachelor of Dental science-MMDP
Year Title	**4th year MMDP**
Year Code	MMDPY4
Academic year	2023-2024

1. Course Identification

Course Title	**4th year MMDP**
Course Code	MMDPY4
Program	Bachelor of Dental science-MMDP
Number of hours	1200 /national hours

2. Course Description & Objectives

• **Course Description**	The scientific content with different disciplines provide the students with essential and high level of communication skills and professionalism. Student will be able to on holistic patient care, with an emphasis on the diagnosis and treatment planning of cases across all clinical specialties and on managing your final year cases to the very highest standard.
• **Course Objective**	By the end of this course student will be able to; **01.** Has the knowledge to have a critical understanding of the complex issues involved in the scientific basis of dentistry; **02.** Can apply intellectual skills, knowledge, and behaviours in the field of dentistry; **03.** Can be reflective, committed to lifelong learning. **04.** Take a patient-centred approach to clinical care within the dental team; **05.** Apply clinical skills, knowledge, and behaviours in independent dental practice.

3. Intended Learning Outcomes (ILOS) of the course

a	**Knowledge and understanding**
a.1	demonstrate understanding of the properties of dental materials and the influence of their properties on the uses of them that the student is likely to encounter in this stage of training.
(a.2)	demonstrate understanding of the potential contribution of psychology to dentistry and the ability to apply it in the management of patients and in teamworking.
(a.3)	demonstrate a critical understanding of the risks and benefits of the range of imaging techniques used in dentistry.
(a.4)	demonstrate knowledge of, and that they have seen, fixed orthodontic appliances used to treat orthodontic malocclusions.
(a.5)	demonstrate an understanding of the practice of triage in the management of acutely ill patients.
b	**Intellectual skills**
(b.1)	demonstrate the ability to identify alterations to normal facial, occlusal and dental development and the procedures to intercept and treat developing and evident anomalies.
(b.2)	demonstrate the ability to identify and evaluate published articles, understand the strength of evidence represented, synthesise the results and draw appropriate conclusions in the light of the body of the dental literature.
(b.3)	demonstrate the ability to evaluate and critically appraise the evidence base for undertaking common dental procedures in the light of the epidemiology and prevalence of oral disease.
(b.4)	demonstrate the ability to interpret and understand the significance of the medical, therapeutic, dental and social history and identify necessary courses of action.
(b.5)	demonstrate the ability to synthesise clinical findings to identify differential diagnoses and identify appropriate investigation.
(b.6)	demonstrate the ability to understand, interpret and act upon the results and reports from special tests commonly requested in dentistry.
(b.7)	demonstrate the ability to interpret the results of diagnostic imaging and synthesise these with the clinical findings.
c	**Professional and Practical skills**

(c.1)	demonstrate the ability to competently handle a wide range of dental instruments and materials used at this stage of their training safely and demonstrating an understanding of the rationale and implementation of current cross infection guidelines.
(c.2)	demonstrate the ability to prevent and manage medical emergencies that may occur in dental practice and demonstrate the ability to perform basic life support procedures.
(C.3)	demonstrate the ability to input, import and analyse complex data sets with SPSS using skills acquired in the ECDL
(C.4)	demonstrate competence in the theory and practice of clinical photography.
(C.5)	demonstrate competence in eliciting medical, therapeutic, dental and social history and undertake relevant examinations of the clothed patient including extra oral and intra oral examination.
(C.6)	demonstrate competency in undertaking common diagnostic imaging procedures applying the provisions of the Ionising Radiation (Medical Exposure) Regulations as appropriate.
(C.7)	demonstrate competency in performing the techniques of intramuscular injection in sites relevant to the practise of dentistry.
(C.8)	demonstrate competence in preparing teeth in children and adults appropriately for indirect and direct restorations using contemporary dental materials.
(C.9)	demonstrate competence in placing indirect and direct restorations in children and adults in harmony with oral health.
(C.10)	demonstrate competence in performing the procedures used in the management and treatment of periodontal diseases.
(C.11)	demonstrate competence in removing permanent and primary teeth.
(C.12)	demonstrate the ability to raise periosteal flaps and remove bone where indicated for teeth and roots requiring surgical intervention under supervision.
(C.13)	demonstrate the ability to utilise appropriate suturing techniques for soft tissue closure in the oral environment under supervision.
(C.14)	demonstrate the ability to identify, and undertake relevant procedures to manage, developing and manifest problems related to the occlusion
(C.15)	demonstrate competency in the clinical stages relating to the replacement of missing teeth using either removable of fixed appliances.
(C.16)	demonstrate the ability to fit and adjust removable appliances (splints / retainers / simple orthodontic appliances) used in dentistry.

(C.17)	demonstrate competency in preparing appropriate access cavities for the treatment of single and multi rooted permanent teeth
(C.18)	demonstrate competency in the clinical procedures to treat vital and non-vital pulp in permanent teeth using contemporary techniques and materials.
d	**General and transferable skills**
(d.1)	demonstrate the ability to prepare and present a 'conference style' presentation using ICT skills.
(d.2)	demonstrate the ability to apply communication skills to discuss and negotiate complex treatment plans with adult and child patients, including those with special needs.
(d.3)	demonstrate the ability to appropriately obtain informed consent for dental procedures for children and adults including those with special needs.
(d.4)	demonstrate the ability to use communication skills to make appropriate referrals to colleagues including those within the dental team.
(d.5)	demonstrate the ability to modify their communication appropriately for history taking of patients with special needs.
(d.6)	demonstrate the ability to work effectively with the dental nurse and other colleagues.
(d.7)	demonstrate an understanding of the indications and mechanisms for a referral to a Specialist/DCP.

4. Course Content

Objective	Symposia	Clinical seminars
Fixed Prosthodontics	Provisional restoration	Diagnosis related to fixed prosthodontics part I&II

	Tissue Dilation	
	Impression Technique	
	Treatment planning in Fixed Prosthodontics part I&II	
	Retainers in fixed prosthodontics part I&II	
	Diagnosis and Treatment Planning for Partially Edentulous Cases part I&II	
	Occlusal Relationship Registration for RPD	
Removable Prosthodontics	Mouth Preparation part I&II	
	Impression Technique	
	RPD Insertion	
	Problems of RPD	
	Management of Resorbed Mandibular Ridge I&II	
	Management of Combination Syndrome	
	Tooth Supported Overdentures I&II	
Conservative dentistry	Treatment planning part I&II	
	Aesthetics part I&II&III	
	Aesthetics part IV&V	
Paediatric dentistry	Modern Management of Caries I&II	
	Deep Caries Management I&II	
	Dental Space Management I&II	
	Trauma I&II	
	Special Needs I&II&III	
Orthodontics	Normal Adult Occlusion	
	Interceptive Orthodontics	
	Methods of Gaining Space	
	Fixed vs removable appliances I&II	
	Growth Modification	
	Functional Appliances	
Endodontics	Trauma I&II	
	Internal and external root resorption	

	Clinical management of root resorption (internal and external) I&II	
General Medicine & General Surgery	Cardiology in relation to dentistry part I&II	
	Respiratory Disease in relation to Dentistry	
	Viral Hepatitis, Liver Disease, HIV and Other Relevant Infectious Diseases"	
	Renal diseases in relation to dentistry	
	Shock part I&II	
	Management of polytraumatized patients	
	Allergy & Anaphylaxis	
	Neurology in relation to dentistry	
	Applied Cases	
	Anaemia	
	Haematology in Relation to Dentistry	
	Rheumatology Disorders in relation to dentistry I&II	
	Sedation In Dentistry	
	Endocrinal Disorders	
	Complication in Surgery	
	Oncology in Relation to Dentistry	
	Revision	
	ENT in Relation to Dentistry	
	GIT Disorders	
	Psychology in Relation to Dentistry	
Oral Medicine	White lesions part I&II&III&IV&V&VI	
	Infections of the Oral Cavity I&II&III&IV&V&VI	
	Oral Ulceration I&II&III&IV&V	
Oral Radiology	Radiation dose and risk	
	Radiation Physics and x-ray machine I&II	
	Fundamentals of Radiation Protection	
	Optimization of Protection of	

	Patients in Dental Radiology	
	Quality Assurance in Dental Radiology	
	Fundamentals of CT and CBCT	
	Justifications and guidelines on selection of radiographs	
	Trauma	
Oral Surgery	Minor oral surgery and flab design part I&II	
	Impacted and Unerupted Teeth part I&II&III	
	Management of Patients with Cleft lip and palate	
	Facial deformity and orthognathic surgery	
	Oral Surgery and the Elderly	
	Medical emergency in dental practice	
	Dental and Maxillofacial Trauma I&II	
	Cysts of the Jaw I&II	
	Complications in Oral Surgery I&II	
Periodontology	Treatment Planning in Periodontology	
	Surgical Treatment of Periodontal Diseases	
	Periodontal Flaps	
	gingivectomy and Crown Lengthening I&II	
	Periodontal Regeneration I&II	
Dental Biomaterials	Dental Porcelain	
	Porcelain Fused to Metals	
	All ceramics	

Clinical Contents	Clinical Topics
Removable Prosthodontics	Diagnosis and treatment planning
	Primary impression for partially edentulous cases
	Designing and mouth prep. on acrylic teeth (free end cases)
	Designing and mouth prep. on acrylic teeth (bounded cases)
	Intraoral mouth prep.
	Secondary impression

	Metal try in
	Jaw relation
	Try in
	Insertion
	Abutment preparation for tooth overdenture
	Impression for tooth overdenture
Fixed Prosthodontics	Provision of metal ceramic/ ceramic crown preparation on patients
	Follow up on metal ceramic crown / ceramic preparation on patients
Conservative Dentistry	Provision of direct restoration "amalgam or composite" on adult patients
	Follow up of provision of direct restoration "amalgam or composite" on adult patients
Periodontology	Management of Periodontal disease on adult patients
Endodontics	Revision on Endodontic Techniques
	Endodontic treatment on acrylic teeth
	Endodontic treatment on adult patients /single rooted teeth
Oral and Maxillofacial Surgery	Revision: Anatomy (Maxillary & Mandibular nerves)
	Revision: Armamentarium of local anesthesia
	Revision: Techniques of local anesthesia
	Revision: Positions (patient &surgeons) and Forceps.
	Extraction
Orthodontics	Clinical examination
	Classification of malocclusion
	Diagnostic aids

Pediatric Dentistry	Class I amalgam
	Class II amalgam
	Class I composite
	Class II composite
	URE pulpotomy
	LLE pulpotomy
	St. St. crown
	Zirconia crown
Oral Medicine	White lesions
	Oral ulcerations
	Orofacial pain
	Infections of the oral cavity
Oral Radiology	Radiation Protection
	Differential diagnosis of radiolucent lesions
	Radiographic appearance of caries and periodontal diseases
General Medicine & surgery	Suturing
	Injection

Course work content	Symposia	Discipline
Critical appraisal topic (CAT)	Study designs part I&II	**Dental Public Health**
	Risk of bias	
	Training on risk of bias	

	Introduction to systemic review	
	Systemic review process	
	A critical appraisal tool of systemic review (AMSTAR)	
	Meta analysis I&II	

5. Contact Hours

No	Activity	Contact Hours
1	**Lecture**	8hrs/week
2	**Laboratory/clinical (Practical)**	14hrs/week
3	**EBL**	2hrs/week
4	**Self- learning/ material collection**	4hrs/week
4	**Office hours**	2hrs/week
	Total	30hrs/week

6. Teaching and learning methods

(Alignment of Teaching Methods with ILOS)

No	Method	Basic knowledge	Intellectual Skills	Professional Skills	General Skills
1	Lectures/Symposia	√	√		
2	EBL/Problem based learning	√	√	√	√
3	Clinical / practical sessions	√		√	√
4	Seminars	√	√	√	√

7. Teaching and learning methods of disables

None

8. Student Assessments

8.1. Assessment Methods

(Alignment of Assessment Methods with ILOS)

No	Method	Basic knowledge	Intellectual Skills	Professional Skills	General Skills
1	EBL	√	√		√
2	Case presentation	√	√		
3	KPT Exam	√	√	√	√
4	Critical appraisal topic (CAT)	√	√		√
5	General OSCE Exam	√	√	√	√
6	Medicine & surgery OSCE Exam	√	√	√	√
7	MCQ Exam (Formative and Summative)	√	√		
8	SAP Exam (Formative and Summative)	√	√		

8.2. Assessment length, degree, and proportion of total Assessment Score

No	Method	Week
1	EBL	At 2nd session of EBL cases (10 cases during the year)
2	Case presentation	During 2nd Semester
3	KPT Exam	During 2nd Semester
4	Critical appraisal topic (CAT)	During 1st and 2nd Semester
5	General OSCE Exam	At the end of year
6	Medicine & surgery OSCE Exam	At the end of year
7	MCQ Exam (Formative and Summative)	At the end of year
8	SAP Exam (Formative and Summative)	At the end of year
No	**Method**	**Weight**
1	EBL	Pass/Fail
2	Case presentation	Pass/Fail
3	KPT Exam	Pass/Fail

4	Critical appraisal topic (CAT)	250/1070=23.33%
4	General OSCE Exam	200/1070=18.7%
5	Medicine & surgery OSCE Exam	120/1070=11.3%
6	MCQ Exam (Formative and Summative)	250/1300=23.33%
7	SAP Exam (Formative and Summative)	250/1300=23.33%
Total		100%

9. Learning Resources and Facilities

9.1. Learning Resources

Required Textbooks	**Item**
	Introduction to dental local anaesthesia - Evers, Hans, Haegerstam, Glenn, Håkansson, Lennart 1990
	Sturdevant's art and science of operative dentistry - Heymann, Harald, Swift, Edward J., Ritter, Andre V., Sturdevant, Clifford M. 2013
	Introduction to dental materials - Noort, Richard van, Barbour, Michele E. c2013
	Phillips' science of dental materials 2013 **Materials in dentistry: principles and applications** - Ferracane, Jack L. 2001 **Applied dental materials** - McCabe, J. F., Walls, Angus 2008 **Dental Materials and Their Selection** - William J. O'Brien 2011 (electronic resource)

Biomaterials science: an introduction to materials in medicine - Ratner, B. D., Society for Biomaterials 2004
Biomaterials Science: An Introduction to Materials in Medicine - Buddy D. Ratner, Allan S. Hoffman, Frederick J. Schoen, Jack E. Lemons 2012(electronic resource)
Craig's restorative dental materials - Sakaguchi, Ronald L., Powers, John M. c2012

Underwood's pathology: a clinical approach - Cross, Simon S., Underwood, J. C. E. c2013
Underwood's pathology: a clinical approach - Cross, Simon S., Underwood, J. C. E. c2013

Textbook of endodontology - Bergenholtz, Gunnar, Hørsted-Bindslev, Preben, Reit, Claes 2010
Harty's endodontics in clinical practice - Chong, Bun San, Harty, F. J. 2010
Essential endodontology: prevention and treatment of apical periodontitis - Ørstavik, Dag, Pitt Ford, T. R. 2008
Principles of operative dentistry - Qualtrough, Alison Jane Elisabeth c2005
Principles of Operative Dentistry: The Fundamentals - A. J. E. Qualtrough, Julian Satterthwaite, Leean Morrow, Paul Brunton 2009 (electronic resource)
Endodontics in practice - Stock, C. J. R., Nehammer, C. F. 1990
Rational root canal treatment in practice - Whitworth, John M., Wilson, Nairn H. F. 2002
A clinical guide to oral diagnosis and treatment planning - Yip, Kevin H. K., Smales, Roger J., British Dental Association 2012

Overdentures in general dental practice - R. M. Basker, British Dental Association 1993
Saliva and oral health - Michael Edgar, Colin Dawes, D. M. O'Mullane 2004
A Colour atlas of removable partial dentures - J. C. Davenport c1989
A Clinical guide to removable partial dentures: the assessment and treatment of patients requiring RPDs - Davenport, J. C., British Dental Association 2000
A Clinical guide to removable partial denture design - J. C. Davenport, British Dental Association 2003
Complete dentures: from planning to problem solving - P. Finbarr Allen, Seán McCarthy 2012
Removable denture prosthodontics - Alan A. Grant, Wesley Johnson 1992
A clinical guide to temporomandibular disorders - R. J. M. Gray, S. J. Davies, A. A. Quayle, British Dental Association 1995
Removable Partial Dentures: A Clinician's Guide - John D. Jones, Lily T. Garcia 2009 (electronic resource)
A clinical guide to complete denture prosthetics - J. Fraser McCord, Alan A. Grant, British Dental Association 2000
Treatment of edentulous patients - J. Fraser McCord, Phillip Smith, Nicholas Grey 2004
Fundamentals of fixed prosthodontics - Shillingburg, Herbert T. c2012
Planning and making crowns and bridges - Bernard G. N. Smith, Leslie C. Howe 2007
Prosthetic rehabilitation - Keith F. Thomas 1994

A clinical guide to crowns and other extra-coronal restorations - R. W. Wassell, British Dental Association 2002
Essentials of complete denture prosthodontics - Sheldon Winkler 1994
Failure in the restored dentition: management and treatment - Michael D. Wise, Anthony Laurie 1995
Prosthodontic Treatment for Edentulous Patients: Complete Dentures and Implant-Supported Prostheses - George A. Zarb, John Hobkirk, Steven Eckert, Rhonda Jacob 2013 (electronic resource)
Prosthodontic treatment for edentulous patients: complete dentures and implant-supported prostheses - George A. Zarb, Aaron H. Fenton2013

Human disease for dentistry - Fortune, Farida 2004
Textbook of human disease in dentistry - Greenwood, M., Seymour, R. A., Meechan, J. G. 2009
Essential medicine - Jones, John Vann, Tomson, C. R. V., Read, Alan E. 1998
Management of medical emergencies for the dental team - Thornhill, Martin H., Pemberton, Michael N., Atherton, Guy J. 2005
Textbook of general and oral surgery - Wray, David 2003

Operative dentistry: a practical guide to recent innovations - Devlin, Hugh 2006
Sturdevant's art and science of operative dentistry - Harald Heymann, Edward J. Swift, Andre V. Ritter, Clifford M. Sturdevant 2013

Essentials of dental caries: the disease and its management - Edwina A. M. Kidd
Preservation and restoration of tooth structure - Graham J. Mount, W. R. Hume 2005
Periodontal and occlusal factors in crown and bridge procedures - Pameijer, J.H.N. 1985
Principles of operative dentistry - Alison Jane Elisabeth Qualtrough c2005
Fundamentals of fixed prosthodontics - Shillingburg, Herbert T. c2012
Summitt's fundamentals of operative dentistry: a contemporary approach - James B. Summitt 2013
Planning and making crowns and bridges - Smith, Bernard G. N., Howe, Leslie C. 2007
Dental morphology: an illustrated guide - Geoffrey C. Van Beek 1983
Restorative dentistry - A. D. Walmsley c2007

An introduction to orthodontics - Laura Mitchell, Simon J. Littlewood, Zararna Nelson-Moon, Fiona Dyer 2013
Dental caries: the disease and its clinical management - Fejerskov, Ole, Kidd, Edwina A. M. 2008
Paediatric dentistry - Richard Welbury, Monty S. Duggal, Marie Thérèse Hosey 2012

Understanding periodontal diseases: assessment and diagnostic procedures in practice - Chapple, Iain L., Gilbert, Angela D., Wilson, Nairn H. F.2002

Successful periodontal therapy: a non-surgical approach - Heasman, Peter A., Preshaw, Philip, Robertson, Pauline 2004
A clinical guide to periodontology - Palmer, Richard M., Ide, Mark, Floyd, Peter D. 2013

Guidance Notes for Dental Practitioners on the Safe Use of X-Ray Equipment
Master dentistry: Volume 1: Oral and maxillofacial surgery, radiology, pathology and oral medicine - Coulthard, Paul 2013
Radiation Protection: Guidelines on radiation protection in dental radiology: The safe use of radiographs in dental practice. - European Commission 2004
Interpreting dental radiographs - Horner, Keith, Rout, P. G. J., Rushton, V. E., Wilson, Nairn H. F. 2002
Essentials of dental radiography and radiology - Whaites, Eric, Drage, Nicholas 2013
Radiation Protection 172. Cone Beam CT for Dental and Maxillofacial Radiology. European Commission, 2012

Operative Dentistry: A Practical Guide to Recent Innovations - Devlin, Hugh 2006
Preservation and restoration of tooth structure - Mount, Graham J., Hume, W. R. 2005
Principles of operative dentistry - Qualtrough, Alison Jane Elisabeth c2005
Fundamentals of fixed prosthodontics - Shillingburg, Herbert T. c2012

	Summitt's fundamentals of operative dentistry: a contemporary approach - James B. Summitt 2013 1.
Electronic Materials	• Guidelines for the orthodontic management of the traumatized tooth • Limiting Factors in Orthodontic Treatment: 1. Factors Related to Patient, Operator and Orthodontic Appliances • Limiting Factors in Orthodontic Treatment: 2. The Biological Limitations of Orthodontic Treatment • Dental trauma: an overview of its influence on the management of orthodontic treatment. Part 1 • Dental trauma: part 2. Managing poor prognosis anterior teeth – treatment options for the subsequent space in a growing patient • General Guidelines for Referring Dental Patients • A new classification scheme for periodontal and peri-implant diseases and conditions – Introduction and key changes from the 1999 classification • What's new in orthodontics? An update on contemporary clinical technologies • Technological Advances in Nontraditional Orthodontics • Interaction between the Orthodontist and the Pediatric Dentist-An Overview • Dental Care and Treatment of Children with Diabetes Mellitus - An Overview • International Association of Dental Traumatology Guidelines for the Management of Traumatic Dental Injuries: 2. Avulsion of Permanent Teeth • International Association of Dental Traumatology Guidelines for the Management of Traumatic Dental Injuries: 1. Fractures and Luxations

	• International Association of Dental Traumatology Guidelines for the Management of Traumatic Dental Injuries: 3. Injuries in the Primary Dentition
Other Learning Materials	

9.2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	- Classroom / EBL rooms/ Clinics / Labs
Technology Resources (AV, data show, Smart Screen, software, etc.)	- PCs + Data Show + Smart Screen
Other Resources (Specify, e.g., if specific laboratory equipment is required, list requirements or attach a list)	- Internet Connection

10. Matrix of course ILOS and the course content

Items	Details	Basic knowledge	Intellectual Skills	Professional Skills	General Skills
Year Contents	Removable prosthodontics			c.1, c.4, c.15, c.16	d.4, d.6, d,7
	Fixed prosthodontics			c.1 ,c.4, c.15	d.4, d.6, d,7
	Periodontology			c.1 ,c.4, c.10, c.12	d.4 , d.6, d,7
	Oral medicine		b.4, b.5	c.1 ,c.4, c.5,	d.4 , d.6, d,7
	Oral surgery			c.1 ,c.4, c11, c.13	d.4 , d.6, d,7
	Oral Radiology	a.3	b.7,	c.1 ,c.4, c.6,	
	Pediatric dentistry	a.2,		c.1 ,c.4, c.8, c.9, c.11	d.2, d.3, d.4, d.5 , d.6 d,7
	Orthodontics	a.4	b.1	c.1 ,c.4, c.14. c.16	d.4 , d.6 d,7 d,7
	Operative dentistry			c.1 ,c.4, c.8, c.9	d.4 , d.6
	Critically appraised topic		b.2, b.3,	c.3,	d.3
	Medicine &surgery	a.2, a.5	b.5, b.6,	c.2, c.7,	d.1,
	Dental materials	a.1,			

	Endodontics			c.17, c.18	d.4 , d.6 d,7
Teaching and Learning Methods	Lectures/Symposia	a. 1-5	b.1-7		
	EBL/Problem based learning	a. 1-5	b.1-7		d.1-7
	Laboratory/ practical	a. 1-5		C1-18	d.1-7
	Clinical Sessions			C1-18	
	Clinical attachment	a.2, a.5 a.2, a.5		c.2, c.7,	
	Skill lab. (M&S)			c.2, c.7,	
Activities and Sources of Teaching and Learning	EBL Sessions	a. 1-5	b.1-7		d.1-7
	Critically apprised topic		b.2, b.3,	c.3	d.3
	M&S presentation				d.3
	Clinical attachment			c.2, c.7,	
	Skill lab. training			c.2, c.7,	
Student Assessment	EBL sessions	a. 1-5	b.1-7		d.3
	Critically apprised topic		b.2, b.3,	c.3	d.3
	M&S presentation				d.3
	KPT			C.1-18	
	MCQ (Formative &summative exams)	a. 1-5	b.1-7		
	SAP Formative &summative exams)	a. 1-5	b.1-7		
	OSCE Formative &summative exams)	a. 1-5	b.1-7	C.1-18	

Matrix of Year course ILOs and program ILOs:

Course ILOs	Program ILOs										
	A. Knowledge and understanding										
	A.1	A.2	A.3	A.4	A.5	A.6	A.7	A.8			
a.1					√			√			
a.2	√	√									
a.3						√					
a.4				√							
B. Intellectual skills											
	B.1	B.2	B.3	B.4	B.5	B.6	B.7	B.8			
b.1	√	√									
b.2			√					√			
b.3				√							
c. Professional and practical skills											
	C.1	C.2	C.3	C.4	C.5	C.6	C.7	C.8	C.9	C.10	C.11
c.1										√	√
c.2		√									
c.3											√
c.4			√	√	√						

c.5	√										
c.6						√					
c.7									√		

d. General and transferable skills

	D. 1	D. 2	D. 3	D. 4	D. 5	D. 6	D. 7	D. 8	D. 9	D. 10	D. 11	D. 12
d.1	√											
d.2						√						
d.3							√					
d.4										√		
d.5					√							
d.6											√	
d.7								√	√			

11. Student Academic Counseling and Support

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

Year Coordinator(s)

Dr/ **Ahmed Shams**

Dr/ **Mostafa Abdelshafi**

Year Director

Dr/ **Nesma Elgohary**

Program Director

Prof. Dr/ Radwa Emera

Mansoura Manchester Dental Program

Year specification

4th year

2022/2023

Year Specification

Program Name	**Mansoura Manchester Dental Program**
Program	Bachelor of Dental science-MMDP
Year Title	**4th year MMDP**
Year Code	MMDPY4
Academic year	2022-2023

1. Course Identification

Course Title	**4th year MMDP**
Course Code	MMDPY4
Program	Bachelor of Dental science-MMDP
Number of hours	1200 /national hours

2. Course Description & Objectives

• **Course Description**	The scientific content with different disciplines provide the students with essential and high level of communication skills and professionalism. Student will be able to on holistic patient care, with an emphasis on the diagnosis and treatment planning of cases across all clinical specialties and on managing your final year cases to the very highest standard.
• **Course Objective**	By the end of this course student will be able to; **01.** Has the knowledge to have a critical understanding of the complex issues involved in the scientific basis of dentistry; **02.** Can apply intellectual skills, knowledge, and behaviours in the field of dentistry; **03.** Can be reflective, committed to lifelong learning. **04.** Take a patient-centred approach to clinical care within the dental team; **05.** Apply clinical skills, knowledge, and behaviours in independent dental practice.

3. Intended Learning Outcomes (ILOS) of the course

a	**Knowledge and understanding**
a.1	demonstrate understanding of the properties of dental materials and the influence of their properties on the uses of them that the student is likely to encounter in this stage of training.
(a.2)	demonstrate understanding of the potential contribution of psychology to dentistry and the ability to apply it in the management of patients and in teamworking.
(a.3)	demonstrate a critical understanding of the risks and benefits of the range of imaging techniques used in dentistry.
(a.4)	demonstrate knowledge of, and that they have seen, fixed orthodontic appliances used to treat orthodontic malocclusions.
(a.5)	demonstrate an understanding of the practice of triage in the management of acutely ill patients.
b	**Intellectual skills**
(b.1)	demonstrate the ability to identify alterations to normal facial, occlusal and dental development and the procedures to intercept and treat developing and evident anomalies.
(b.2)	demonstrate the ability to identify and evaluate published articles, understand the strength of evidence represented, synthesise the results and draw appropriate conclusions in the light of the body of the dental literature.
(b.3)	demonstrate the ability to evaluate and critically appraise the evidence base for undertaking common dental procedures in the light of the epidemiology and prevalence of oral disease.
(b.4)	demonstrate the ability to interpret and understand the significance of the medical, therapeutic, dental and social history and identify necessary courses of action.
(b.5)	demonstrate the ability to synthesise clinical findings to identify differential diagnoses and identify appropriate investigation.
(b.6)	demonstrate the ability to understand, interpret and act upon the results and reports from special tests commonly requested in dentistry.
(b.7)	demonstrate the ability to interpret the results of diagnostic imaging and synthesise these with the clinical findings.
c	**Professional and Practical skills**
(c.1)	demonstrate the ability to competently handle a wide range of dental instruments and materials used at this stage of their training safely and demonstrating an understanding of the rationale and implementation of current cross infection guidelines.
(c.2)	demonstrate the ability to prevent and manage medical emergencies that may occur in dental practice and demonstrate the ability to perform basic life support procedures.
(C.3)	demonstrate the ability to input, import and analyse complex data sets with SPSS using skills acquired in the ECDL
(C.4)	demonstrate competence in the theory and practice of clinical photography.
(C.5)	demonstrate competence in eliciting medical, therapeutic, dental and social history and undertake relevant examinations of the clothed patient including extra oral and intra oral examination.
(C.6)	demonstrate competency in undertaking common diagnostic imaging procedures applying the provisions of the Ionising Radiation (Medical Exposure) Regulations as appropriate.

(C.7)	demonstrate competency in performing the techniques of intramuscular injection in sites relevant to the practise of dentistry.
(C.8)	demonstrate competence in preparing teeth in children and adults appropriately for indirect and direct restorations using contemporary dental materials.
(C.9)	demonstrate competence in placing indirect and direct restorations in children and adults in harmony with oral health.
(C.10)	demonstrate competence in performing the procedures used in the management and treatment of periodontal diseases.
(C.11)	demonstrate competence in removing permanent and primary teeth.
(C.12)	demonstrate the ability to raise periosteal flaps and remove bone where indicated for teeth and roots requiring surgical intervention under supervision.
(C.13)	demonstrate the ability to utilise appropriate suturing techniques for soft tissue closure in the oral environment under supervision.
(C.14)	demonstrate the ability to identify, and undertake relevant procedures to manage, developing and manifest problems related to the occlusion
(C.15)	demonstrate competency in the clinical stages relating to the replacement of missing teeth using either removable of fixed appliances.
(C.16)	demonstrate the ability to fit and adjust removable appliances (splints / retainers / simple orthodontic appliances) used in dentistry.
(C.17)	demonstrate competency in preparing appropriate access cavities for the treatment of single and multi rooted permanent teeth
(C.18)	demonstrate competency in the clinical procedures to treat vital and non-vital pulp in permanent teeth using contemporary techniques and materials.
d	**General and transferable skills**
(d.1)	demonstrate the ability to prepare and present a 'conference style' presentation using ICT skills.
(d.2)	demonstrate the ability to apply communication skills to discuss and negotiate complex treatment plans with adult and child patients, including those with special needs.
(d.3)	demonstrate the ability to appropriately obtain informed consent for dental procedures for children and adults including those with special needs.
(d.4)	demonstrate the ability to use communication skills to make appropriate referrals to colleagues including those within the dental team.
(d.5)	demonstrate the ability to modify their communication appropriately for history taking of patients with special needs.
(d.6)	demonstrate the ability to work effectively with the dental nurse and other colleagues.
(d.7)	demonstrate an understanding of the indications and mechanisms for a referral to a Specialist/DCP.

4. Course Content

Objective	Symposia	Clinical seminars
Fixed Prosthodontics	Provisional restoration	Diagnosis related to fixed prosthodontics part I&II
	Tissue Dilation	
	Impression Technique	
	Treatment planning in Fixed Prosthodontics part I&II	
	Retainers in fixed prosthodontics part I&II	
Removable Prosthodontics	Diagnosis and Treatment Planning for Partially Edentulous Cases part I&II	
	Occlusal Relationship Registration for RPD	
	Mouth Preparation part I&II	
	Impression Technique	
	RPD Insertion	
	Problems of RPD	
	Management of Resorbed Mandibular Ridge I&II	
	Management of Combination Syndrome	
	Tooth Supported Overdentures I&II	
Conservative dentistry	Treatment planning part I&II	
	Aesthetics part I&II&III	
	Aesthetics part IV&V	
Paediatric dentistry	Modern Management of Caries I&II	
	Deep Caries Management I&II	
	Dental Space Management I&II	
	Trauma I&II	
	Special Needs I&II&III	
Orthodontics	Normal Adult Occlusion	
	Interceptive Orthodontics	
	Methods of Gaining Space	
	Fixed vs removable appliances I&II	
	Growth Modification	
	Functional Appliances	
Endodontics	Trauma I&II	
	Internal and external root resorption	
	Clinical management of root resorption (internal and external) I&II	
General Medicine & General Surgery	Cardiology in relation to dentistry part I&II	
	Respiratory Disease in relation to Dentistry	
	Viral Hepatitis, Liver Disease, HIV and Other Relevant Infectious Diseases"	

	Renal diseases in relation to dentistry	
	Shock part I&II	
	Management of polytraumatized patients	
	Allergy & Anaphylaxis	
	Neurology in relation to dentistry	
	Applied Cases	
	Anaemia	
	Haematology in Relation to Dentistry	
	Rheumatology Disorders in relation to dentistry I&II	
	Sedation In Dentistry	
	Endocrinal Disorders	
	Complication in Surgery	
	Oncology in Relation to Dentistry	
	Revision	
	ENT in Relation to Dentistry	
	GIT Disorders	
	Psychology in Relation to Dentistry	
Oral Medicine	White lesions part I&II&III&IV&V&VI	
	Infections of the Oral Cavity I&II&III&IV&V&VI	
	Oral Ulceration I&II&III&IV&V	
Oral Radiology	Radiation dose and risk	
	Radiation Physics and x-ray machine I&II	
	Fundamentals of Radiation Protection	
	Optimization of Protection of Patients in Dental Radiology	
	Quality Assurance in Dental Radiology	
	Fundamentals of CT and CBCT	
	Justifications and guidelines on selection of radiographs	
	Trauma	
	Minor oral surgery and flab design part I&II	
	Impacted and Unerupted Teeth part I&II&III	
	Management of Patients with Cleft lip and palate	
Oral Surgery	Facial deformity and orthognathic surgery	
	Oral Surgery and the Elderly	
	Medical emergency in dental practice	
	Dental and Maxillofacial Trauma I&II	
	Cysts of the Jaw I&II	
	Complications in Oral Surgery I&II	
Periodontology	Treatment Planning in Periodontology	
	Surgical Treatment of Periodontal Diseases	
	Periodontal Flaps	
	gingivectomy and Crown Lengthening I&II	

	Periodontal Regeneration I&II	
Dental Biomaterials	Dental Porcelain	
	Porcelain Fused to Metals	
	All ceramics	

Clinical Contents	Clinical Topics
Removable Prosthodontics	Diagnosis and treatment planning
	Primary impression for partially edentulous cases
	Designing and mouth prep. on acrylic teeth (free end cases)
	Designing and mouth prep. on acrylic teeth (bounded cases)
	Intraoral mouth prep.
	Secondary impression
	Metal try in
	Jaw relation
	Try in
	Insertion
	Abutment preparation for tooth overdenture
	Impression for tooth overdenture
Fixed Prosthodontics	Provision of metal ceramic/ ceramic crown preparation on patients
	Follow up on metal ceramic crown / ceramic preparation on patients
Conservative Dentistry	Provision of direct restoration "amalgam or composite" on adult patients
	Follow up of provision of direct restoration "amalgam or composite" on adult patients
Periodontology	Management of Periodontal disease on adult patients
Endodontics	Revision on Endodontic Techniques
	Endodontic treatment on acrylic teeth
	Endodontic treatment on adult patients /single rooted teeth
Oral and Maxillofacial Surgery	Revision: Anatomy (Maxillary & Mandibular nerves)
	Revision: Armamentarium of local anesthesia
	Revision: Techniques of local anesthesia
	Revision: Positions (patient &surgeons) and Forceps.
	Extraction
Orthodontics	Clinical examination
	Classification of malocclusion
	Diagnostic aids

Pediatric Dentistry	Class I amalgam
	Class II amalgam
	Class I composite
	Class II composite
	URE pulpotomy
	LLE pulpotomy
	St. St. crown
	Zirconia crown
Oral Medicine	White lesions
	Oral ulcerations
	Orofacial pain
	Infections of the oral cavity
Oral Radiology	Radiation Protection
	Differential diagnosis of radiolucent lesions
	Radiographic appearance of caries and periodontal diseases
General Medicine & surgery	Suturing
	Injection

Course work content	Symposia	Discipline
Critical appraisal topic (CAT)	Study designs part I&II	**Dental Public Health**
	Risk of bias	
	Training on risk of bias	
	Introduction to systemic review	
	Systemic review process	
	A critical appraisal tool of systemic review (AMSTAR)	
	Meta analysis I&II	

5. Contact Hours

No	Activity	Contact Hours
1	**Lecture**	8hrs/week
2	**Laboratory/clinical (Practical)**	14hrs/week
3	**EBL**	2hrs/week
4	**Self- learning/ material collection**	4hrs/week
4	**Office hours**	2hrs/week
	Total	30hrs/week

6. Teaching and learning methods

(Alignment of Teaching Methods with ILOS)

No	Method	Basic knowledge	Intellectual Skills	Professional Skills	General Skills
1	Lectures/Symposia	√	√		
2	EBL/Problem based learning	√	√	√	√
3	Clinical / practical sessions	√		√	√
4	Seminars	√	√	√	√

7. Teaching and learning methods of disables

None

8. Student Assessments

8.1. Assessment Methods

(Alignment of Assessment Methods with ILOS)

No	Method	Basic knowledge	Intellectual Skills	Professional Skills	General Skills
1	EBL	√	√		√
2	Case presentation	√	√		
3	KPT Exam	√	√	√	√
4	Critical appraisal topic (CAT)	√	√		√
5	General OSCE Exam	√	√	√	√
6	Medicine & surgery OSCE Exam	√	√	√	√
7	MCQ Exam (Formative and Summative)	√	√		
8	SAP Exam (Formative and Summative)	√	√		

8.2. Assessment length, degree, and proportion of total Assessment Score

No	Method	Week
1	EBL	At 2nd session of EBL cases (10 cases during the year)
2	Case presentation	During 2nd Semester
3	KPT Exam	During 2nd Semester
4	Critical appraisal topic (CAT)	During 1st and 2nd Semester
5	General OSCE Exam	At the end of year
6	Medicine & surgery OSCE Exam	At the end of year
7	MCQ Exam (Formative and Summative)	At the end of year
8	SAP Exam (Formative and Summative)	At the end of year
No	**Method**	**Weight**
1	EBL	Pass/Fail
2	Case presentation	Pass/Fail
3	KPT Exam	Pass/Fail
4	Critical appraisal topic (CAT)	250/1070=23.33%
4	General OSCE Exam	200/1070=18.7%
5	Medicine & surgery OSCE Exam	120/1070=11.3%
6	MCQ Exam (Formative and Summative)	250/1300=23.33%
7	SAP Exam (Formative and Summative)	250/1300=23.33%
Total		100%

9. Learning Resources and Facilities

9.1. Learning Resources

Required Textbooks	**Item**
	Introduction to dental local anaesthesia - Evers, Hans, Haegerstam, Glenn, Håkansson, Lennart 1990
	Sturdevant's art and science of operative dentistry - Heymann, Harald, Swift, Edward J., Ritter, Andre V., Sturdevant, Clifford M. 2013
	Introduction to dental materials - Noort, Richard van, Barbour, Michele E. c2013
	Phillips' science of dental materials 2013

Materials in dentistry: principles and applications - Ferracane, Jack L. 2001
Applied dental materials - McCabe, J. F., Walls, Angus 2008
Dental Materials and Their Selection - William J. O'Brien 2011 (electronic resource)
Biomaterials science: an introduction to materials in medicine - Ratner, B. D., Society for Biomaterials 2004
Biomaterials Science: An Introduction to Materials in Medicine - Buddy D. Ratner, Allan S. Hoffman, Frederick J. Schoen, Jack E. Lemons 2012(electronic resource)
Craig's restorative dental materials - Sakaguchi, Ronald L., Powers, John M. c2012

Underwood's pathology: a clinical approach - Cross, Simon S., Underwood, J. C. E. c2013

Underwood's pathology: a clinical approach - Cross, Simon S., Underwood, J. C. E. c2013

Textbook of endodontology - Bergenholtz, Gunnar, Hørsted-Bindslev, Preben, Reit, Claes 2010
Harty's endodontics in clinical practice - Chong, Bun San, Harty, F. J. 2010
Essential endodontology: prevention and treatment of apical periodontitis - Ørstavik, Dag, Pitt Ford, T. R. 2008
Principles of operative dentistry - Qualtrough, Alison Jane Elisabeth c2005
Principles of Operative Dentistry: The Fundamentals - A. J. E. Qualtrough, Julian Satterthwaite, Leean Morrow, Paul Brunton 2009 (electronic resource)
Endodontics in practice - Stock, C. J. R., Nehammer, C. F. 1990
Rational root canal treatment in practice - Whitworth, John M., Wilson, Nairn H. F. 2002
A clinical guide to oral diagnosis and treatment planning - Yip, Kevin H. K., Smales, Roger J., British Dental Association 2012

Overdentures in general dental practice - R. M. Basker, British Dental Association 1993
Saliva and oral health - Michael Edgar, Colin Dawes, D. M. O'Mullane 2004
A Colour atlas of removable partial dentures - J. C. Davenport c1989

A Clinical guide to removable partial dentures: the assessment and treatment of patients requiring RPDs - Davenport, J. C., British Dental Association 2000
A Clinical guide to removable partial denture design - J. C. Davenport, British Dental Association 2003
Complete dentures: from planning to problem solving - P. Finbarr Allen, Seán McCarthy 2012
Removable denture prosthodontics - Alan A. Grant, Wesley Johnson 1992
A clinical guide to temporomandibular disorders - R. J. M. Gray, S. J. Davies, A. A. Quayle, British Dental Association 1995
Removable Partial Dentures: A Clinician's Guide - John D. Jones, Lily T. Garcia 2009 (electronic resource)
A clinical guide to complete denture prosthetics - J. Fraser McCord, Alan A. Grant, British Dental Association 2000
Treatment of edentulous patients - J. Fraser McCord, Phillip Smith, Nicholas Grey 2004
Fundamentals of fixed prosthodontics - Shillingburg, Herbert T. c2012
Planning and making crowns and bridges - Bernard G. N. Smith, Leslie C. Howe 2007
Prosthetic rehabilitation - Keith F. Thomas 1994
A clinical guide to crowns and other extra-coronal restorations - R. W. Wassell, British Dental Association 2002
Essentials of complete denture prosthodontics - Sheldon Winkler 1994
Failure in the restored dentition: management and treatment - Michael D. Wise, Anthony Laurie 1995
Prosthodontic Treatment for Edentulous Patients: Complete Dentures and Implant-Supported Prostheses - George A. Zarb, John Hobkirk, Steven Eckert, Rhonda Jacob 2013 (electronic resource)
Prosthodontic treatment for edentulous patients: complete dentures and implant-supported prostheses - George A. Zarb, Aaron H. Fenton2013

Human disease for dentistry - Fortune, Farida 2004
Textbook of human disease in dentistry - Greenwood, M., Seymour, R. A., Meechan, J. G. 2009
Essential medicine - Jones, John Vann, Tomson, C. R. V., Read, Alan E. 1998

Management of medical emergencies for the dental team - Thornhill, Martin H., Pemberton, Michael N., Atherton, Guy J. 2005
Textbook of general and oral surgery - Wray, David 2003

Operative dentistry: a practical guide to recent innovations - Devlin, Hugh 2006
Sturdevant's art and science of operative dentistry - Harald Heymann, Edward J. Swift, Andre V. Ritter, Clifford M. Sturdevant 2013
Essentials of dental caries: the disease and its management - Edwina A. M. Kidd
Preservation and restoration of tooth structure - Graham J. Mount, W. R. Hume 2005
Periodontal and occlusal factors in crown and bridge procedures - Pameijer, J.H.N. 1985
Principles of operative dentistry - Alison Jane Elisabeth Qualtrough c2005
Fundamentals of fixed prosthodontics - Shillingburg, Herbert T. c2012
Summitt's fundamentals of operative dentistry: a contemporary approach - James B. Summitt 2013
Planning and making crowns and bridges - Smith, Bernard G. N., Howe, Leslie C. 2007
Dental morphology: an illustrated guide - Geoffrey C. Van Beek 1983
Restorative dentistry - A. D. Walmsley c2007

An introduction to orthodontics - Laura Mitchell, Simon J. Littlewood, Zararna Nelson-Moon, Fiona Dyer 2013
Dental caries: the disease and its clinical management - Fejerskov, Ole, Kidd, Edwina A. M. 2008
Paediatric dentistry - Richard Welbury, Monty S. Duggal, Marie Thérèse Hosey 2012

Understanding periodontal diseases: assessment and diagnostic procedures in practice - Chapple, Iain L., Gilbert, Angela D., Wilson, Nairn H. F.2002
Successful periodontal therapy: a non-surgical approach - Heasman, Peter A., Preshaw, Philip, Robertson, Pauline 2004

	A clinical guide to periodontology - Palmer, Richard M., Ide, Mark, Floyd, Peter D. 2013 **Guidance Notes for Dental Practitioners on the Safe Use of X-Ray Equipment** **Master dentistry: Volume 1: Oral and maxillofacial surgery, radiology, pathology and oral medicine** - Coulthard, Paul 2013 **Radiation Protection: Guidelines on radiation protection in dental radiology: The safe use of radiographs in dental practice.** - European Commission 2004 **Interpreting dental radiographs** - Horner, Keith, Rout, P. G. J., Rushton, V. E., Wilson, Nairn H. F. 2002 **Essentials of dental radiography and radiology** - Whaites, Eric, Drage, Nicholas 2013 **Radiation Protection 172. Cone Beam CT for Dental and Maxillofacial Radiology. European Commission, 2012** **Operative Dentistry: A Practical Guide to Recent Innovations** - Devlin, Hugh 2006 **Preservation and restoration of tooth structure** - Mount, Graham J., Hume, W. R. 2005 **Principles of operative dentistry** - Qualtrough, Alison Jane Elisabeth c2005 **Fundamentals of fixed prosthodontics** - Shillingburg, Herbert T. c2012 **Summitt's fundamentals of operative dentistry: a contemporary approach** - James B. Summitt 2013 1.
Electronic Materials	• Guidelines for the orthodontic management of the traumatized tooth • Limiting Factors in Orthodontic Treatment: 1. Factors Related to Patient, Operator and Orthodontic Appliances • Limiting Factors in Orthodontic Treatment: 2. The Biological Limitations of Orthodontic Treatment • Dental trauma: an overview of its influence on the management of orthodontic treatment. Part 1 • Dental trauma: part 2. Managing poor prognosis anterior teeth – treatment options for the subsequent space in a growing patient • General Guidelines for Referring Dental Patients

	• A new classification scheme for periodontal and peri-implant diseases and conditions – Introduction and key changes from the 1999 classification • What's new in orthodontics? An update on contemporary clinical technologies • Technological Advances in Nontraditional Orthodontics • Interaction between the Orthodontist and the Pediatric Dentist-An Overview • Dental Care and Treatment of Children with Diabetes Mellitus - An Overview • International Association of Dental Traumatology Guidelines for the Management of Traumatic Dental Injuries: 2. Avulsion of Permanent Teeth • International Association of Dental Traumatology Guidelines for the Management of Traumatic Dental Injuries: 1. Fractures and Luxations • International Association of Dental Traumatology Guidelines for the Management of Traumatic Dental Injuries: 3. Injuries in the Primary Dentition
Other Learning Materials	

9.2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	- Classroom / EBL rooms/ Clinics / Labs
Technology Resources (AV, data show, Smart Screen, software, etc.)	- PCs + Data Show + Smart Screen
Other Resources (Specify, e.g., if specific laboratory equipment is required, list requirements or attach a list)	- Internet Connection

10. Matrix of course ILOS and the course content

Items	Details	Basic knowledge	Intellectual Skills	Professional Skills	General Skills
Year Contents	Removable prosthodontics			c.1, c.4, c.15, c.16	d.4, d.6, d,7
	Fixed prosthodontics			c.1 ,c.4, c.15	d.4, d.6, d,7
	Periodontology			c.1 ,c.4, c.10, c.12	d.4 , d.6, d,7
	Oral medicine		b.4, b.5	c.1 ,c.4, c.5,	d.4 , d.6, d,7
	Oral surgery			c.1 ,c.4, c11, c.13	d.4 , d.6, d,7
	Oral Radiology	a.3	b.7,	c.1 ,c.4, c.6,	
	Pediatric dentistry	a.2,		c.1 ,c.4, c.8, c.9, c.11	d.2, d.3, d.4, d.5 , d.6 d,7
	Orthodontics	a.4	b.1	c.1 ,c.4, c.14. c.16	d.4 , d.6 d,7 d,7
	Operative dentistry			c.1 ,c.4, c.8, c.9	d.4 , d.6
	Critically appraised topic		b.2, b.3,	c.3,	d.3
	Medicine &surgery	a.2, a.5	b.5, b.6,	c.2, c.7,	d.1,
	Dental materials	a.1,			
	Endodontics			c.17, c.18	d.4 , d.6 d,7
Teaching and Learning Methods	Lectures/Symposia	a. 1-5	b.1-7		
	EBL/Problem based learning	a. 1-5	b.1-7		d.1-7
	Laboratory/ practical	a. 1-5		C1-18	d.1-7

	Clinical Sessions			C1-18	
	Clinical attachment	a.2, a.5 a.2, a.5		c.2, c.7,	
	Skill lab. (M&S)			c.2, c.7,	
Activities and Sources of Teaching and Learning	EBL Sessions	a. 1-5	b.1-7		d.1-7
	Critically apprised topic		b.2, b.3,	c.3	d.3
	M&S presentation				d.3
	Clinical attachment			c.2, c.7,	
	Skill lab. training			c.2, c.7,	
Student Assessment	EBL sessions	a. 1-5	b.1-7		d.3
	Critically apprised topic		b.2, b.3,	c.3	d.3
	M&S presentation				d.3
	KPT			C.1-18	
	MCQ (Formative &summative exams)	a. 1-5	b.1-7		
	SAP Formative &summative exams)	a. 1-5	b.1-7		
	OSCE Formative &summative exams)	a. 1-5	b.1-7	C.1-18	

Matrix of Year course ILOs and program ILOs:

Course ILOs	Program ILOs								
	A. Knowledge and understanding								
	A. 1	A. 2	A. 3	A. 4	A. 5	A. 6	A. 7	A. 8	
a.1								√	
a.2						√			
a.3	√								
a.4								√	
a.5				√	√				
B. Intellectual skills									
	B. 1	B. 2	B. 3	B. 4	B. 5	B. 6	B. 7	B. 8	
b.1						√			
b.2	√								
b.3				√					
b.4		√							
b.5		√							
b.6							√		
b.7							√		
c. Professional and practical skills									

	C. 1	C. 2	C. 3	C. 4	C. 5	C. 6	C. 7	C. 8	C. 9	C. 10	C.11	
c.1					√							
c.2										√		
c.3				√							√	
c.4			√									
c.5	√											
c.6											√	
c.7								√				
c.8							√					
c.9							√					
c.10							√					
c.11								√				
c.12								√				
c.13				√								
c.14									√			
c.15						√						
c.16									√			
c.17												
c.18												

d. General and transferable skills

	D. 1	D. 2	D. 3	D. 4	D. 5	D. 6	D. 7	D. 8	D. 9	D. 10	D. 11	D. 12
d.1	√											
d.2		√				√						
d.3									√			
d.4										√		
d.5					√							
d.6							√					
d.7										√		

11. Student Academic Counseling and Support

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

Year Coordinator(s)

Dr**/ Dina sami**

Dr**/ Nesma Elgohary**

Year Director

Prof. Dr**/ Rabab salama**

Program Director

Prof. Dr/ Abeer Abdelatief

Mansoura Manchester Dental Program

Year specification

4th year

2021/2022

Year Specification

Program Name	**Mansoura Manchester Dental Program**
Program	Bachelor of Dental science-MMDP
Year Title	**4th year MMDP**
Year Code	MMDPY4
Academic year	2021/2022

1. Course Identification

Course Title	**4th year MMDP**
Course Code	MMDPY4
Program	Bachelor of Dental science-MMDP
Number of hours	1200 /national hours

2. Course Description & Objectives

• **Course Description**	The scientific content with different disciplines provide the students with essential and high level of communication skills and professionalism. Student will be able to on holistic patient care, with an emphasis on the diagnosis and treatment planning of cases across all clinical specialties and on managing your final year cases to the very highest standard.
• **Course Objective**	By the end of this course student will be able to; **01.** Has the knowledge to have a critical understanding of the complex issues involved in the scientific basis of dentistry; **02.** Can apply intellectual skills, knowledge, and behaviours in the field of dentistry; **03.** Can be reflective, committed to lifelong learning. **04.** Take a patient-centred approach to clinical care within the dental team; **05.** Apply clinical skills, knowledge, and behaviours in independent dental practice.

3. Intended Learning Outcomes (ILOS) of the course

a	**Knowledge and understanding**
a.1	demonstrate understanding of the properties of dental materials and the influence of their properties on the uses of them that the student is likely to encounter in this stage of training.
(a.2)	demonstrate understanding of the potential contribution of psychology to dentistry and the ability to apply it in the management of patients and in teamworking.
(a.3)	demonstrate a critical understanding of the risks and benefits of the range of imaging techniques used in dentistry.
(a.4)	demonstrate knowledge of, and that they have seen, fixed orthodontic appliances used to treat orthodontic malocclusions.
(a.5)	demonstrate an understanding of the practice of triage in the management of acutely ill patients.
b	**Intellectual skills**
(b.1)	demonstrate the ability to identify alterations to normal facial, occlusal and dental development and the procedures to intercept and treat developing and evident anomalies.
(b.2)	demonstrate the ability to identify and evaluate published articles, understand the strength of evidence represented, synthesise the results and draw appropriate conclusions in the light of the body of the dental literature.
(b.3)	demonstrate the ability to evaluate and critically appraise the evidence base for undertaking common dental procedures in the light of the epidemiology and prevalence of oral disease.
(b.4)	demonstrate the ability to interpret and understand the significance of the medical, therapeutic, dental and social history and identify necessary courses of action.
(b.5)	demonstrate the ability to synthesise clinical findings to identify differential diagnoses and identify appropriate investigation.
(b.6)	demonstrate the ability to understand, interpret and act upon the results and reports from special tests commonly requested in dentistry.
(b.7)	demonstrate the ability to interpret the results of diagnostic imaging and synthesise these with the clinical findings.
c	**Professional and Practical skills**

(c.1)	demonstrate the ability to competently handle a wide range of dental instruments and materials used at this stage of their training safely and demonstrating an understanding of the rationale and implementation of current cross infection guidelines.
(c.2)	demonstrate the ability to prevent and manage medical emergencies that may occur in dental practice and demonstrate the ability to perform basic life support procedures.
(C.3)	demonstrate the ability to input, import and analyse complex data sets with SPSS using skills acquired in the ECDL
(C.4)	demonstrate competence in the theory and practice of clinical photography.
(C.5)	demonstrate competence in eliciting medical, therapeutic, dental and social history and undertake relevant examinations of the clothed patient including extra oral and intra oral examination.
(C.6)	demonstrate competency in undertaking common diagnostic imaging procedures applying the provisions of the Ionising Radiation (Medical Exposure) Regulations as appropriate.
(C.7)	demonstrate competency in performing the techniques of intramuscular injection in sites relevant to the practise of dentistry.
(C.8)	demonstrate competence in preparing teeth in children and adults appropriately for indirect and direct restorations using contemporary dental materials.
(C.9)	demonstrate competence in placing indirect and direct restorations in children and adults in harmony with oral health.
(C.10)	demonstrate competence in performing the procedures used in the management and treatment of periodontal diseases.
(C.11)	demonstrate competence in removing permanent and primary teeth.
(C.12)	demonstrate the ability to raise periosteal flaps and remove bone where indicated for teeth and roots requiring surgical intervention under supervision.
(C.13)	demonstrate the ability to utilise appropriate suturing techniques for soft tissue closure in the oral environment under supervision.
(C.14)	demonstrate the ability to identify, and undertake relevant procedures to manage, developing and manifest problems related to the occlusion
(C.15)	demonstrate competency in the clinical stages relating to the replacement of missing teeth using either removable of fixed appliances.
(C.16)	demonstrate the ability to fit and adjust removable appliances (splints / retainers / simple orthodontic appliances) used in dentistry.

(C.17)	demonstrate competency in preparing appropriate access cavities for the treatment of single and multi rooted permanent teeth
(C.18)	demonstrate competency in the clinical procedures to treat vital and non-vital pulp in permanent teeth using contemporary techniques and materials.
d	**General and transferable skills**
(d.1)	demonstrate the ability to prepare and present a 'conference style' presentation using ICT skills.
(d.2)	demonstrate the ability to apply communication skills to discuss and negotiate complex treatment plans with adult and child patients, including those with special needs.
(d.3)	demonstrate the ability to appropriately obtain informed consent for dental procedures for children and adults including those with special needs.
(d.4)	demonstrate the ability to use communication skills to make appropriate referrals to colleagues including those within the dental team.
(d.5)	demonstrate the ability to modify their communication appropriately for history taking of patients with special needs.
(d.6)	demonstrate the ability to work effectively with the dental nurse and other colleagues.
(d.7)	demonstrate an understanding of the indications and mechanisms for a referral to a Specialist/DCP.

4. Course Content

Objective	Symposia	Clinical seminars
Fixed Prosthodontics	Provisional restoration	Diagnosis related to fixed prosthodontics part I&II

	Tissue Dilation	
	Impression Technique	
	Treatment planning in Fixed Prosthodontics part I&II	
	Retainers in fixed prosthodontics part I&II	
	Diagnosis and Treatment Planning for Partially Edentulous Cases part I&II	
	Occlusal Relationship Registration for RPD	
Removable Prosthodontics	Mouth Preparation part I&II	
	Impression Technique	
	RPD Insertion	
	Problems of RPD	
	Management of Resorbed Mandibular Ridge I&II	
	Management of Combination Syndrome	
	Tooth Supported Overdentures I&II	
Conservative dentistry	Treatment planning part I&II	
	Aesthetics part I&II&III	
	Aesthetics part IV&V	
Paediatric dentistry	Modern Management of Caries I&II	
	Deep Caries Management I&II	
	Dental Space Management I&II	
	Trauma I&II	
	Special Needs I&II&III	
Orthodontics	Normal Adult Occlusion	
	Interceptive Orthodontics	
	Methods of Gaining Space	
	Fixed vs removable appliances I&II	
	Growth Modification	
	Functional Appliances	
Endodontics	Trauma I&II	
	Internal and external root resorption	

	Clinical management of root resorption (internal and external) I&II	
General Medicine & General Surgery	Cardiology in relation to dentistry part I&II	
	Respiratory Disease in relation to Dentistry	
	Viral Hepatitis, Liver Disease, HIV and Other Relevant Infectious Diseases"	
	Renal diseases in relation to dentistry	
	Shock part I&II	
	Management of polytraumatized patients	
	Allergy & Anaphylaxis	
	Neurology in relation to dentistry	
	Applied Cases	
	Anaemia	
	Haematology in Relation to Dentistry	
	Rheumatology Disorders in relation to dentistry I&II	
	Sedation In Dentistry	
	Endocrinal Disorders	
	Complication in Surgery	
	Oncology in Relation to Dentistry	
	Revision	
	ENT in Relation to Dentistry	
	GIT Disorders	
	Psychology in Relation to Dentistry	
Oral Medicine	White lesions part I&II&III&IV&V&VI	
	Infections of the Oral Cavity I&II&III&IV&V&VI	
	Oral Ulceration I&II&III&IV&V	
Oral Radiology	Radiation dose and risk	
	Radiation Physics and x-ray machine I&II	
	Fundamentals of Radiation Protection	
	Optimization of Protection of	

	Patients in Dental Radiology	
	Quality Assurance in Dental Radiology	
	Fundamentals of CT and CBCT	
	Justifications and guidelines on selection of radiographs	
	Trauma	
Oral Surgery	Minor oral surgery and flab design part I&II	
	Impacted and Unerupted Teeth part I&II&III	
	Management of Patients with Cleft lip and palate	
	Facial deformity and orthognathic surgery	
	Oral Surgery and the Elderly	
	Medical emergency in dental practice	
	Dental and Maxillofacial Trauma I&II	
	Cysts of the Jaw I&II	
	Complications in Oral Surgery I&II	
Periodontology	Treatment Planning in Periodontology	
	Surgical Treatment of Periodontal Diseases	
	Periodontal Flaps	
	gingivectomy and Crown Lengthening I&II	
	Periodontal Regeneration I&II	
Dental Biomaterials	Dental Porcelain	
	Porcelain Fused to Metals	
	All ceramics	

Clinical Contents	Clinical Topics
Removable Prosthodontics	Diagnosis and treatment planning
	Primary impression for partially edentulous cases
	Designing and mouth prep. on acrylic teeth (free end cases)
	Designing and mouth prep. on acrylic teeth (bounded cases)
	Intraoral mouth prep.
	Secondary impression

	Metal try in
	Jaw relation
	Try in
	Insertion
	Abutment preparation for tooth overdenture
	Impression for tooth overdenture
Fixed Prosthodontics	Provision of metal ceramic/ ceramic crown preparation on patients
	Follow up on metal ceramic crown / ceramic preparation on patients
Conservative Dentistry	Provision of direct restoration “amalgam or composite” on adult patients
	Follow up of provision of direct restoration “amalgam or composite” on adult patients
Periodontology	Management of Periodontal disease on adult patients
Endodontics	Revision on Endodontic Techniques
	Endodontic treatment on acrylic teeth
	Endodontic treatment on adult patients /single rooted teeth
Oral and Maxillofacial Surgery	Revision: Anatomy (Maxillary & Mandibular nerves)
	Revision: Armamentarium of local anesthesia
	Revision: Techniques of local anesthesia
	Revision: Positions (patient &surgeons) and Forceps.
	Extraction
Orthodontics	Clinical examination
	Classification of malocclusion
	Diagnostic aids

Pediatric Dentistry	Class I amalgam
	Class II amalgam
	Class I composite
	Class II composite
	URE pulpotomy
	LLE pulpotomy
	St. St. crown
	Zirconia crown
Oral Medicine	White lesions
	Oral ulcerations
	Orofacial pain
	Infections of the oral cavity
Oral Radiology	Radiation Protection
	Differential diagnosis of radiolucent lesions
	Radiographic appearance of caries and periodontal diseases
General Medicine & surgery	Suturing
	Injection

Course work content	Symposia	Discipline
Critical appraisal topic (CAT)	Study designs part I&II	**Dental Public Health**
	Risk of bias	
	Training on risk of bias	

	Introduction to systemic review	
	Systemic review process	
	A critical appraisal tool of systemic review (AMSTAR)	
	Meta analysis I&II	

5. Contact Hours

No	Activity	Contact Hours
1	**Lecture**	8hrs/week
2	**Laboratory/clinical (Practical)**	14hrs/week
3	**EBL**	2hrs/week
4	**Self- learning/ material collection**	4hrs/week
4	**Office hours**	2hrs/week
	Total	30hrs/week

6. Teaching and learning methods

(Alignment of Teaching Methods with ILOS)

No	Method	Basic knowledge	Intellectual Skills	Professional Skills	General Skills
1	Lectures/Symposia	√	√		
2	EBL/Problem based learning	√	√	√	√
3	Clinical / practical sessions	√		√	√
4	Seminars	√	√	√	√

7. Teaching and learning methods of disables

None

8. Student Assessments

8.1. Assessment Methods

(Alignment of Assessment Methods with ILOS)

No	Method	Basic knowledge	Intellectual Skills	Professional Skills	General Skills
1	EBL	√	√		√
2	Case presentation	√	√		
3	KPT Exam	√	√	√	√
4	Critical appraisal topic (CAT)	√	√		√
5	General OSCE Exam	√	√	√	√
6	Medicine & surgery OSCE Exam	√	√	√	√
7	MCQ Exam (Formative and Summative)	√	√		
8	SAP Exam (Formative and Summative)	√	√		

8.2. Assessment length, degree, and proportion of total Assessment Score

No	Method	Week
1	EBL	At 2nd session of EBL cases (10 cases during the year)
2	Case presentation	During 2nd Semester
3	KPT Exam	During 2nd Semester
4	Critical appraisal topic (CAT)	During 1st and 2nd Semester
5	General OSCE Exam	At the end of year
6	Medicine & surgery OSCE Exam	At the end of year
7	MCQ Exam (Formative and Summative)	At the end of year
8	SAP Exam (Formative and Summative)	At the end of year
No	**Method**	**Weight**
1	EBL	Pass/Fail
2	Case presentation	Pass/Fail
3	KPT Exam	Pass/Fail

4	Critical appraisal topic (CAT)	250/1070=23.33%
4	General OSCE Exam	200/1070=18.7%
5	Medicine & surgery OSCE Exam	120/1070=11.3%
6	MCQ Exam (Formative and Summative)	250/1300=23.33%
7	SAP Exam (Formative and Summative)	250/1300=23.33%
Total		100%

9. Learning Resources and Facilities

9.1. Learning Resources

Required Textbooks	**Item**
	Introduction to dental local anaesthesia - Evers, Hans, Haegerstam, Glenn, Håkansson, Lennart 1990
	Sturdevant's art and science of operative dentistry - Heymann, Harald, Swift, Edward J., Ritter, Andre V., Sturdevant, Clifford M. 2013
	Introduction to dental materials - Noort, Richard van, Barbour, Michele E. c2013
	Phillips' science of dental materials 2013 **Materials in dentistry: principles and applications** - Ferracane, Jack L. 2001 **Applied dental materials** - McCabe, J. F., Walls, Angus 2008 **Dental Materials and Their Selection** - William J. O'Brien 2011 (electronic resource)

Biomaterials science: an introduction to materials in medicine - Ratner, B. D., Society for Biomaterials 2004

Biomaterials Science: An Introduction to Materials in Medicine - Buddy D. Ratner, Allan S. Hoffman, Frederick J. Schoen, Jack E. Lemons 2012(electronic resource)

Craig's restorative dental materials - Sakaguchi, Ronald L., Powers, John M. c2012

Underwood's pathology: a clinical approach - Cross, Simon S., Underwood, J. C. E. c2013

Underwood's pathology: a clinical approach - Cross, Simon S., Underwood, J. C. E. c2013

Textbook of endodontology - Bergenholtz, Gunnar, Hørsted-Bindslev, Preben, Reit, Claes 2010

Harty's endodontics in clinical practice - Chong, Bun San, Harty, F. J. 2010

Essential endodontology: prevention and treatment of apical periodontitis - Ørstavik, Dag, Pitt Ford, T. R. 2008

Principles of operative dentistry - Qualtrough, Alison Jane Elisabeth c2005

Principles of Operative Dentistry: The Fundamentals - A. J. E. Qualtrough, Julian Satterthwaite, Leean Morrow, Paul Brunton 2009 (electronic resource)

Endodontics in practice - Stock, C. J. R., Nehammer, C. F. 1990

Rational root canal treatment in practice - Whitworth, John M., Wilson, Nairn H. F. 2002

A clinical guide to oral diagnosis and treatment planning - Yip, Kevin H. K., Smales, Roger J., British Dental Association 2012

Overdentures in general dental practice - R. M. Basker, British Dental Association 1993

Saliva and oral health - Michael Edgar, Colin Dawes, D. M. O'Mullane 2004

A Colour atlas of removable partial dentures - J. C. Davenport c1989

A Clinical guide to removable partial dentures: the assessment and treatment of patients requiring RPDs - Davenport, J. C., British Dental Association 2000

A Clinical guide to removable partial denture design - J. C. Davenport, British Dental Association 2003

Complete dentures: from planning to problem solving - P. Finbarr Allen, Seán McCarthy 2012

Removable denture prosthodontics - Alan A. Grant, Wesley Johnson 1992

A clinical guide to temporomandibular disorders - R. J. M. Gray, S. J. Davies, A. A. Quayle, British Dental Association 1995

Removable Partial Dentures: A Clinician's Guide - John D. Jones, Lily T. Garcia 2009 (electronic resource)

A clinical guide to complete denture prosthetics - J. Fraser McCord, Alan A. Grant, British Dental Association 2000

Treatment of edentulous patients - J. Fraser McCord, Phillip Smith, Nicholas Grey 2004

Fundamentals of fixed prosthodontics - Shillingburg, Herbert T. c2012

Planning and making crowns and bridges - Bernard G. N. Smith, Leslie C. Howe 2007

Prosthetic rehabilitation - Keith F. Thomas 1994

A clinical guide to crowns and other extra-coronal restorations - R. W. Wassell, British Dental Association 2002
Essentials of complete denture prosthodontics - Sheldon Winkler 1994
Failure in the restored dentition: management and treatment - Michael D. Wise, Anthony Laurie 1995
Prosthodontic Treatment for Edentulous Patients: Complete Dentures and Implant-Supported Prostheses - George A. Zarb, John Hobkirk, Steven Eckert, Rhonda Jacob 2013 (electronic resource)
Prosthodontic treatment for edentulous patients: complete dentures and implant-supported prostheses - George A. Zarb, Aaron H. Fenton2013

Human disease for dentistry - Fortune, Farida 2004
Textbook of human disease in dentistry - Greenwood, M., Seymour, R. A., Meechan, J. G. 2009
Essential medicine - Jones, John Vann, Tomson, C. R. V., Read, Alan E. 1998
Management of medical emergencies for the dental team - Thornhill, Martin H., Pemberton, Michael N., Atherton, Guy J. 2005
Textbook of general and oral surgery - Wray, David 2003

Operative dentistry: a practical guide to recent innovations - Devlin, Hugh 2006
Sturdevant's art and science of operative dentistry - Harald Heymann, Edward J. Swift, Andre V. Ritter, Clifford M. Sturdevant 2013

Essentials of dental caries: the disease and its management - Edwina A. M. Kidd
Preservation and restoration of tooth structure - Graham J. Mount, W. R. Hume 2005
Periodontal and occlusal factors in crown and bridge procedures - Pameijer, J.H.N. 1985
Principles of operative dentistry - Alison Jane Elisabeth Qualtrough c2005
Fundamentals of fixed prosthodontics - Shillingburg, Herbert T. c2012
Summitt's fundamentals of operative dentistry: a contemporary approach - James B. Summitt 2013
Planning and making crowns and bridges - Smith, Bernard G. N., Howe, Leslie C. 2007
Dental morphology: an illustrated guide - Geoffrey C. Van Beek 1983
Restorative dentistry - A. D. Walmsley c2007

An introduction to orthodontics - Laura Mitchell, Simon J. Littlewood, Zararna Nelson-Moon, Fiona Dyer 2013
Dental caries: the disease and its clinical management - Fejerskov, Ole, Kidd, Edwina A. M. 2008
Paediatric dentistry - Richard Welbury, Monty S. Duggal, Marie Thérèse Hosey 2012

Understanding periodontal diseases: assessment and diagnostic procedures in practice - Chapple, Iain L., Gilbert, Angela D., Wilson, Nairn H. F.2002

Successful periodontal therapy: a non-surgical approach - Heasman, Peter A., Preshaw, Philip, Robertson, Pauline 2004

A clinical guide to periodontology - Palmer, Richard M., Ide, Mark, Floyd, Peter D. 2013

Guidance Notes for Dental Practitioners on the Safe Use of X-Ray Equipment

Master dentistry: Volume 1: Oral and maxillofacial surgery, radiology, pathology and oral medicine - Coulthard, Paul 2013

Radiation Protection: Guidelines on radiation protection in dental radiology: The safe use of radiographs in dental practice. - European Commission 2004

Interpreting dental radiographs - Horner, Keith, Rout, P. G. J., Rushton, V. E., Wilson, Nairn H. F. 2002

Essentials of dental radiography and radiology - Whaites, Eric, Drage, Nicholas 2013

Radiation Protection 172. Cone Beam CT for Dental and Maxillofacial Radiology. European Commission, 2012

Operative Dentistry: A Practical Guide to Recent Innovations - Devlin, Hugh 2006

Preservation and restoration of tooth structure - Mount, Graham J., Hume, W. R. 2005

Principles of operative dentistry - Qualtrough, Alison Jane Elisabeth c2005

Fundamentals of fixed prosthodontics - Shillingburg, Herbert T. c2012

	Summitt's fundamentals of operative dentistry: a contemporary approach - James B. Summitt 2013 1.
Electronic Materials	• Guidelines for the orthodontic management of the traumatized tooth • Limiting Factors in Orthodontic Treatment: 1. Factors Related to Patient, Operator and Orthodontic Appliances • Limiting Factors in Orthodontic Treatment: 2. The Biological Limitations of Orthodontic Treatment • Dental trauma: an overview of its influence on the management of orthodontic treatment. Part 1 • Dental trauma: part 2. Managing poor prognosis anterior teeth – treatment options for the subsequent space in a growing patient • General Guidelines for Referring Dental Patients • A new classification scheme for periodontal and peri-implant diseases and conditions – Introduction and key changes from the 1999 classification • What's new in orthodontics? An update on contemporary clinical technologies • Technological Advances in Nontraditional Orthodontics • Interaction between the Orthodontist and the Pediatric Dentist-An Overview • Dental Care and Treatment of Children with Diabetes Mellitus - An Overview • International Association of Dental Traumatology Guidelines for the Management of Traumatic Dental Injuries: 2. Avulsion of Permanent Teeth • International Association of Dental Traumatology Guidelines for the Management of Traumatic Dental Injuries: 1. Fractures and Luxations

	• International Association of Dental Traumatology Guidelines for the Management of Traumatic Dental Injuries: 3. Injuries in the Primary Dentition
Other Learning Materials	

9.2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	- Classroom / EBL rooms/ Clinics / Labs
Technology Resources (AV, data show, Smart Screen, software, etc.)	- PCs + Data Show + Smart Screen
Other Resources (Specify, e.g., if specific laboratory equipment is required, list requirements or attach a list)	- Internet Connection

10. Matrix of course ILOS and the course content

Items	Details	Basic knowledge	Intellectual Skills	Professional Skills	General Skills
Year Contents	Removable prosthodontics			c.1, c.4, c.15, c.16	d.4, d.6, d,7
	Fixed prosthodontics			c.1 ,c.4, c.15	d.4, d.6, d,7
	Periodontology			c.1 ,c.4, c.10, c.12	d.4 , d.6, d,7
	Oral medicine		b.4, b.5	c.1 ,c.4, c.5,	d.4 , d.6, d,7
	Oral surgery			c.1 ,c.4, c11, c.13	d.4 , d.6, d,7
	Oral Radiology	a.3	b.7,	c.1 ,c.4, c.6,	
	Pediatric dentistry	a.2,		c.1 ,c.4, c.8, c.9, c.11	d.2, d.3, d.4, d.5 , d.6 d,7
	Orthodontics	a.4	b.1	c.1 ,c.4, c.14. c.16	d.4 , d.6 d,7 d,7
	Operative dentistry			c.1 ,c.4, c.8, c.9	d.4 , d.6
	Critically appraised topic		b.2, b.3,	c.3,	d.3
	Medicine &surgery	a.2, a.5	b.5, b.6,	c.2, c.7,	d.1,
	Dental materials	a.1,			

	Endodontics			c.17, c.18	d.4 , d.6 d,7
Teaching and Learning Methods	Lectures/Symposia	a. 1-5	b.1-7		
	EBL/Problem based learning	a. 1-5	b.1-7		d.1-7
	Laboratory/ practical	a. 1-5		C1-18	d.1-7
	Clinical Sessions			C1-18	
	Clinical attachment	a.2, a.5 a.2, a.5		c.2, c.7,	
	Skill lab. (M&S)			c.2, c.7,	
Activities and Sources of Teaching and Learning	EBL Sessions	a. 1-5	b.1-7		d.1-7
	Critically apprised topic		b.2, b.3,	c.3	d.3
	M&S presentation				d.3
	Clinical attachment			c.2, c.7,	
	Skill lab. training			c.2, c.7,	
Student Assessment	EBL sessions	a. 1-5	b.1-7		d.3
	Critically apprised topic		b.2, b.3,	c.3	d.3
	M&S presentation				d.3
	KPT			C.1-18	
	MCQ (Formative &summative exams)	a. 1-5	b.1-7		
	SAP Formative &summative exams)	a. 1-5	b.1-7		
	OSCE Formative &summative exams)	a. 1-5	b.1-7	C.1-18	

Matrix of Year course ILOs and program ILOs:

Course ILOs	Program ILOs								
	A. Knowledge and understanding								
	A. 1	A. 2	A. 3	A. 4	A. 5	A. 6	A. 7	A. 8	
a.1								√	
a.2						√			
a.3	√								
a.4								√	
a.5				√	√				
B. Intellectual skills									
	B. 1	B. 2	B. 3	B. 4	B. 5	B. 6	B. 7	B. 8	
b.1						√			
b.2	√								
b.3				√					
b.4		√							
b.5		√							
b.6							√		
b.7							√		
c. Professional and practical skills									

	C.1	C.2	C.3	C.4	C.5	C.6	C.7	C.8	C.9	C.10	C.11	
c.1					√							
c.2										√		
c.3				√							√	
c.4			√									
c.5	√											
c.6											√	
c.7								√				
c.8							√					
c.9							√					
c.10							√					
c.11								√				
c.12								√				
c.13				√								
c.14									√			
c.15						√						
c.16									√			
c.17												
c.18												

d. General and transferable skills

	D.1	D.2	D.3	D.4	D.5	D.6	D.7	D.8	D.9	D.10	D.11	D.12
d.1	√											
d.2		√				√						
d.3									√			
d.4										√		
d.5					√							
d.6							√					
d.7										√		

11. Student Academic Counseling and Support

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

Year Coordinator(s)

Dr/ Dina Samy
Dr/ Nesma Al Gohary

Year Director

Prof/ Radwa Emera

Program Director

Prof. Dr/Abeer Abdullatif

Mansoura Manchester Dental Program

Year specification

5th year

2024/2025

Year Specification

Program Name	**Mansoura Manchester Dental Program**
Program	Bachelor of Dental science-MMDP
Year Title	**5th year MMDP**
Year Code	MMDPY5
Academic year	2024-2025
Program council approval date	

1. Course Identification

Course Title	**5th year MMDP**
Course Code	MMDPY5
Program	Bachelor of Dental science-MMDP
Number of hours	1200 /national hours

2. Course Description & Objectives

• **Course Description**	The scientific content with different disciplines provide the students with essential and high level of communication skills and professionalism. Student will be able to on holistic patient care, with an emphasis on the diagnosis and treatment planning of cases across all clinical specialties and on managing your final year cases to the very highest standard.
• **Course Objective**	By the end of this course student will be able to; 1. Understand the complex issues involved in the scientific basis of dentistry. 2. Apply intellectual skills, knowledge, and behavior in the field of dentistry. 3. Reflective, committed to lifelong learning 4. Treat integrated cases in a professional manner. 5. Understand knowledge and professionalism for referral of cases that need special care. 6. Lead a team and managing any conflict within the team. 7. Deal professionally with patients, staff and professionals colleagues.

3. Intended Learning Outcomes (ILOS) of the course

a	**Knowledge and understanding**
a.1	Demonstrate a systematic approach to diagnosis and treatment planning, which enables comprehensive, efficient, effective and holistic patient care.
a.2	Understanding of the psychological, mental, emotional and sociological aspects of patients to enable appropriate treatment planning
a.3	Demonstrate research governance and the issues involved in undertaking clinical dental research.
a.4	Demonstrate competence in handling dental instruments and materials used at this stage of their training safely and understand the principles underlying current cross infection guidelines
b	**Intellectual skills**
b.1	Synthesis, modify and adapt patient care, taking into account relevant medical conditions, disabilities and special needs.
b.2	Demonstrate understanding of clinical governance and the ability to write and evaluate clinical audit protocols that are relevant to Primary Care Dentistry
b.3	Demonstrate an understanding of NHS structures and future careers paths.
c	**Professional and Practical skills**
c.1	Apply management and leadership skills with all members of the dental team whose roles affect patient care, including the management of conflict in the team.
c.2	Utilize communication skills appropriately and effectively in anxiety situations in a general dental practice setting
c.3	Apply communication skills to discuss and negotiate payment and payment plans with patients.
c.4	Demonstrate the ability to discharge the legal and professional responsibilities of a dentist with respect to patient care including the provisions of Ionizing Radiation (Medical Exposure) Regulations, complaints management with regard to current guidance from the General Dental Council
c.5	Demonstrate clinical competence in the range of dental procedures normally carried out in a primary dental care setting with limited supervision.
c.6	Recognize how failures of mastication, including occlusion and related dento-facial deformity, and deglutition may present in dental practice and understand the principles of their management
c.7	Differentiate between anxiety management and sedation techniques when appropriate to enable the effective delivery of dental care to both children and adults.
d	**General and transferable skills**
d.1	Display appropriate communicate skills to prospective employers.
d.2	Demonstrate an awareness of the need for CPD for all the dental team
d.3	Recognize when refer to a Specialist/DCP.
d.4	Demonstrate competence in managing medical and dental emergencies, including trauma, that may occur or present in dental practice including the ability to perform basic life support procedures.
d.5	Use communication skills effectively when break bad news to patients
d.6	Communicate professionaly outside of dentistry.

d.7	Demonstrate competence in understanding the working of, and leading, a team and in the management of conflict within teams.

4. Course Content

Course Contents	Symposia	Seminars
Removable Prosthodontics	Occlusion	
	Immediate Dentures	
	CAD/CAM	
	Introduction to Maxillofacial Prosthesis	
	Dental Implantology (Restorative)	
Fixed Prosthodontics	Metal Ceramic Restorations	
	All Ceramic Restoration	
	Try-in	
	Appropriate Selection and Use of Cements	
	Posterior Partial Coverage	
	Crown and Bridge Maintenance and Failure	
Conservative Dentistry	Teeth Wear	
	Dentine Hypersensitivity	
	Glass Ionomer	
	Failure and Repair	
	Indirect Aesthetic Restorations	
	Deep Margin Elevation	
Periodontology	Antimicrobial Therapy	
	Perio/Restorative Interface	
	Recent Diagnostic Tools of Periodontal Disease	
Endodontics	Internal Resorption	Revision on Endodontic Techniques
	External Resorption	Clinical Techniques in Rotary Instrumentation
Oral and Maxillofacial Surgery/ Oral pathology	Bone Graft	Infection
	Salivary Gland Disorders	Cyst
	Management of Medically Compromised Patients	Impaction

	TMJ	Fracture
	Odontogenic Tumors	Avoiding errors in practice
	Laser	Salivary gland diseases
	Dental Implantology (Introduction)	Odontogenic tumors
Orthodontics	Diagnosis	Examination and Diagnosis
	Limiting Factors	Classification of Malocclusion
	Guidelines for Orthodontic Management of Traumatized Tooth	Growth Modification
	Orthodontic Treatment for Special Needs	Functional Appliances
	Interrelationship of Orthodontics with Restorative Dentistry	Methods of Gaining Spaces
	Updates in Orthodontics	Interceptive Orthodontics
	Risks in Orthodontic Treatment	
	Trauma	
Pediatric Dentistry	Examination & Treatment Planning	Gingival and Periodontal Diseases
	Local anesthesia and Pain Control	Minor Irregularities in mixed Dentition
	Behavioral Management	Eruption Problems
	Medically Compromised Children	
	Traumatic Dental Injuries	
Oral Medicine	Laboratory investigations	Ulcers.
	Biopsy	Giant Cell Lesions
	Prescription	Pigmented Lesions.
		White Lesions
Oral Radiology	CBCT	Periapical radio-opacities & radiolucencies
		Radiation Protection
	MRI	Differential diagnosis of radiolucent lesions
		Radiographic appearance of caries and periodontal diseases
Dental public health	How to be Professional?	
	Is the referring dentist skillful?	

	Leading a dental team, a conflict management	
	Communication during appointments	
	Breaking bad news	
Anesthesia	How to conduct general anesthesia	

Clinical Contents	Clinical Topics
Removable Prosthodontics	Construction of metallic RPD/ at least one
	Construction of acrylic RPD / at least two
	Construction of complete dentures/ at least four per arch
	Abutment preparation for tooth overdenture
	Impression for tooth overdenture
Fixed Prosthodontics	Provision of metal ceramic/ ceramic crown preparation
	Follow up on metal ceramic crown / ceramic preparation on patients
Conservative Dentistry	Provision of direct restoration "amalgam or composite" on adult patients
	Follow up of provision of direct restoration "amalgam or composite" on adult patients
Periodontology	Management of Periodontal disease on adult patients
Endodontics	Revision on Endodontic Techniques
	Endodontic treatment on adult patients /single and multirooted teeth
	Clinical Techniques in Rotary Instrumentation
Oral and Maxillofacial Surgery	Clinical cases
	Cyst
	Impaction
	Fracture
	Avoiding errors in practice
Orthodontics	Clinical examination
	Classification of malocclusion
	Growth Modification
	Functional Appliances
	Methods of Gaining Spaces
	Interceptive Orthodontics
Pediatric Dentistry	Space maintainer
	Arch length analysis

	Treatment plan
	Pulpotomy
	St. St. crown
	Zirconia crown
Oral Medicine	White lesions
	Oral ulcerations
	Giant Cell Lesions
	Pigmented Lesions.
Oral Radiology	Radiation Protection
	Differential diagnosis of radiolucent lesions
	Radiographic appearance of caries and periodontal diseases

Course work content	Symposia	Discipline
Clinical governance	What is clinical governance?	**Dental Public Health**
	How to conduct auditing in dental clinic?	
	How to present a case scenario from all points?	
Case scenario	How to write a case scenario?	

5. Contact Hours

No	Activity	Contact Hours
1	**Lecture**	8hrs/week
2	**Laboratory/clinical (Practical)**	14hrs/week
3	**EBL**	2hrs/week
4	**Self- learning/ material collection**	4hrs/week
4	**Office hours**	2hrs/week
	Total	30hrs/week

6. Teaching and learning methods

(Alignment of Teaching Methods with ILOS)

No	Method	Basic knowledge	Intellectual Skills	Professional Skills	General Skills
1	Lectures/Symposia	√	√		
2	EBL/Problem based learning	√	√	√	√
3	Clinical / practical sessions	√		√	√
4	Seminars	√	√	√	√

7. Teaching and learning methods of disables

None

8. Student Assessments

8.1. Assessment Methods

(Alignment of Assessment Methods with ILOS)

No	Method	Basic knowledge	Intellectual Skills	Professional Skills	General Skills
1	EBL	√	√		√
2	Research Proposal	√	√		
3	Case Scenarios	√	√		√
4	Clinical Governance		√	√	√
5	MCQ Exam (Formative and Summative)	√	√		
6	SAP Exam (Formative and Summative)	√	√		
7	Seen Case Presentation	√	√	√	
8	Unseen Structured Oral Exam	√	√		√

8.2. Assessment length, degree, and proportion of total Assessment Score

No	Method	Week
1	EBL	At 2nd session of EBL cases (7 cases during the year)
2	Clinical Governance/ clinical auditing	During 2nd Semester
3	Case Scenarios	During 2nd Semester
4	Formative exams (MCQ, SAP)	At the end of 1st Semester
5	Summative exams (MCQ, SAP)	At the end of year
6	Seen Case Presentation	At the end of year
7	Unseen Structured Oral Exam	At the end of year
No	**Method**	**Weight**
1	Clinical Governance	Pass/Fail
2	Case Scenarios	Pass/Fail
3	MCQ	280/1300=21.5%
4	SAP	370/1300=28.5%
5	Seen Case Presentation	350/1300=26.9%
6	Unseen Structured Oral Exam	300/1300=23.1%
Total		100%

9. Learning Resources and Facilities

9.1. Learning Resources

Required Textbooks	1. Medical pharmacology & therapeutics. Waller, Derek, Sampson, Anthony P., Renwick, Andrew G., Hillier, Keith 2014 2. Seltzer and Bender's Dental Pulp by Kenneth M. Hargreaves, Harold E. Goodis, Franklin R. Tay. Quintessence Publishing Co,Inc. Second Edition 2012 3. A clinical guide to temporomandibular disorders - R. J. M. Gray, S. J. Davies, A. A. Quayle, British Dental Association 1995 4. Fundamentals of fixed prosthodontics - Shillingburg, Herbert T. c2012 5. Prosthodontic treatment for edentulous patients: complete dentures and implant-supported prostheses - George A. Zarb, Aaron H. Fenton2013 6. Essentials of dental caries: the disease and its management - Edwina A. M.Kidd 7. Color atlas of oral pathology - Eveson, J. W., Scully, C. M. 1995 8. A clinical guide to oral medicine - Lamey, Philip-John, Lewis, Michael A. O. 1997 9. Master dentistry: Volume 1: Oral and maxillofacial surgery, radiology, pathology and oral medicine - Coulthard, Paul 2013 10. A clinical guide to periodontology - Palmer, Richard M., Ide, Mark, Floyd, Peter D. 2013
	• Guidelines for the orthodontic management of the traumatized tooth

Electronic Materials	• Limiting Factors in Orthodontic Treatment: 1. Factors Related to Patient, Operator and Orthodontic Appliances • Limiting Factors in Orthodontic Treatment: 2. The Biological Limitations of Orthodontic Treatment • Dental trauma: an overview of its influence on the management of orthodontic treatment. Part 1 • Dental trauma: part 2. Managing poor prognosis anterior teeth – treatment options for the subsequent space in a growing patient • General Guidelines for Referring Dental Patients • A new classification scheme for periodontal and peri-implant diseases and conditions – Introduction and key changes from the 1999 classification • What's new in orthodontics? An update on contemporary clinical technologies • Technological Advances in Nontraditional Orthodontics • Interaction between the Orthodontist and the Pediatric Dentist-An Overview • Dental Care and Treatment of Children with Diabetes Mellitus - An Overview • International Association of Dental Traumatology Guidelines for the Management of Traumatic Dental Injuries: 2. Avulsion of Permanent Teeth • International Association of Dental Traumatology Guidelines for the Management of Traumatic Dental Injuries: 1. Fractures and Luxations • International Association of Dental Traumatology Guidelines for the Management of Traumatic Dental Injuries: 3. Injuries in the Primary Dentition
Other Learning Materials	

9.2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	- Classroom / EBL rooms/ Clinics / Labs
Technology Resources (AV, data show, Smart Screen, software, etc.)	- PCs + Data Show + Smart Screen
Other Resources	- Internet Connection

Item	Resources
(Specify, e.g., if specific laboratory equipment is required, list requirements or attach a list)	

10. Matrix of course ILOS and the course content

Items	Details	Basic knowledge	Intellectual Skills	Professional Skills	General Skills
Year Contents	Communication Skills		b.1, b.3	c.1, c.2, c.3	d.1, d.2, d.5, d.6, d.7
	Pediatric Dentistry	a.1, a.2, a.4	b.1, b.2	c.2, c.3, c.7	d.4
	Oral Radiology	a.1	b.3	c.4	d.5
	Periodontology	a.1, a.2, a.4		c.2	
	Endodontics	a.1, a.4		c.2	
	Orthodontics	a.1, a.2, a.4	b.1, b.2	c.2, c.3, c.6	
	Oral and Maxillofacial Surgery	a.1, a.2, a.4	b.1, b.2	c.2, c.3, c.6, c.7	d.4
	Oral Medicine	a.1			d.4, d.5
	Operative Dentistry	a.1, a.4		c.2, c.5	
	Fixed Prosthodontics	a.1, a.2, a.4		c.2, c.3, c.6	
	Removable Prosthodontics	a.1, a.2, a.4		c.2, c.3, c.6	
	Professionalism		b.2, b.3	c.1, c.3, c.4	d.1, d.2, d.3. d.5, d.6, d.7
	Referral				d.3, d.6
Teaching and Learning Methods	Lectures/Symposia	a.1, a.2	b.1, b.2, b.3		
	EBL/Problem based learning	a.1, a.2	b.1	c.6, c.7	d.4
	Clinical Sessions	a.1, a.2, a.4		c.2, c.3, c.4, c.5, c.6, c.7	d.4, d.5, d.6, d.7
Activities and Sources of Teaching and Learning	EBL Sessions	a.1, a.2	b.1	c.6, c.7	d.4
	Poster Presentation	a.1		c.5	d.4
	EBL	a.1, a.2	b.1		d.4

Student Assessment	Case Scenarios	a.1, a.2	b.1		d.4
	Clinical Governance		b.2	c.4	d.1
	MCQ Exam (Formative and Summative)	a.1, a.2	b.1		
	SAP Exam (Formative and Summative)	a.1, a.2	b.1		
	Seen Case Presentation	a.4	b.1	c.5, c.6, c.7	
	Unseen Structured Oral Exam	a.1, a.2	b.1		d.4

Matrix of Year course ILOs and program ILOs:

Course ILOs	Program ILOs										
	A. Knowledge and understanding										
	A.1	A.2	A.3	A.4	A.5	A.6	A.7	A.8			
a.1					√			√			
a.2	√	√									
a.3						√					
a.4				√							
B. Intellectual skills											
	B.1	B.2	B.3	B.4	B.5	B.6	B.7	B.8			
b.1	√	√									
b.2			√					√			
b.3				√							
c. Professional and practical skills											
	C.1	C.2	C.3	C.4	C.5	C.6	C.7	C.8	C.9	C.10	C.11
c.1										√	√
c.2		√									

c.3											√
c.4			√	√	√						
c.5	√										
c.6						√					
c.7									√		

d. General and transferable skills

	D. 1	D. 2	D. 3	D. 4	D. 5	D. 6	D. 7	D. 8	D. 9	D. 10	D. 11	D. 12
d.1	√											
d.2						√						
d.3							√					
d.4										√		
d.5					√							
d.6											√	
d.7								√	√			

11. Student Academic Counseling and Support

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

Year Coordinator(s)

Assist. Prof. Dr**/ Dina Samy**

Dr**/ Marwa Adel**

Year Director

Prof. Dr**/ Rabab Ibrahim Salama**

Program Director

Prof. Dr/ Radwa Emera

Mansoura Manchester Dental Program

Year specification

5th year

2023/2024

Year Specification

Program Name	**Mansoura Manchester Dental Program**
Program	Bachelor of Dental science-MMDP
Year Title	**5th year MMDP**
Year Code	MMDPY5
Academic year	2023-2024

1. Course Identification

Course Title	**5th year MMDP**
Course Code	MMDPY5
Program	Bachelor of Dental science-MMDP
Number of hours	1200 /national hours

2. Course Description & Objectives

• **Course Description**	The scientific content with different disciplines provide the students with essential and high level of communication skills and professionalism. Student will be able to on holistic patient care, with an emphasis on the diagnosis and treatment planning of cases across all clinical specialties and on managing your final year cases to the very highest standard.
• **Course Objective**	<u>By the end of this course student will be able to;</u> 1. Understand the complex issues involved in the scientific basis of dentistry. 2. Apply intellectual skills, knowledge, and behavior in the field of dentistry. 3. Reflective, committed to lifelong learning 4. Treat integrated cases in a professional manner. 5. Understand knowledge and professionalism for referral of cases that need special care. 6. Lead a team and managing any conflict within the team. 7. Deal professionally with patients, staff and professionals colleagues.

3. Intended Learning Outcomes (ILOS) of the course

a	**Knowledge and understanding**
a.1	Demonstrate a systematic approach to diagnosis and treatment planning, which enables comprehensive, efficient, effective and holistic patient care.
a.2	Understanding of the psychological, mental, emotional and sociological aspects of patients to enable appropriate treatment planning
a.3	Demonstrate research governance and the issues involved in undertaking clinical dental research.
a.4	Demonstrate competence in handling dental instruments and materials used at this stage of their training safely and understand the principles underlying current cross infection guidelines
b	**Intellectual skills**
b.1	Synthesis, modify and adapt patient care, taking into account relevant medical conditions, disabilities and special needs.
b.2	Demonstrate understanding of clinical governance and the ability to write and evaluate clinical audit protocols that are relevant to Primary Care Dentistry
b.3	Demonstrate an understanding of NHS structures and future careers paths.
c	**Professional and Practical skills**
c.1	Apply management and leadership skills with all members of the dental team whose roles affect patient care, including the management of conflict in the team.
c.2	Utilize communication skills appropriately and effectively in anxiety situations in a general dental practice setting
c.3	Apply communication skills to discuss and negotiate payment and payment plans with patients.
c.4	Demonstrate the ability to discharge the legal and professional responsibilities of a dentist with respect to patient care including the provisions of Ionizing Radiation (Medical Exposure) Regulations, complaints management with regard to current guidance from the General Dental Council
c.5	Demonstrate clinical competence in the range of dental procedures normally carried out in a primary dental care setting with limited supervision.
c.6	Recognize how failures of mastication, including occlusion and related dento-facial deformity, and deglutition may present in dental practice and understand the principles of their management
c.7	Differentiate between anxiety management and sedation techniques when appropriate to enable the effective delivery of dental care to both children and adults.
d	**General and transferable skills**
d.1	Display appropriate communicate skills to prospective employers.
d.2	Demonstrate an awareness of the need for CPD for all the dental team
d.3	Recognize when refer to a Specialist/DCP.
d.4	Demonstrate competence in managing medical and dental emergencies, including trauma, that may occur or present in dental practice including the ability to perform basic life support procedures.
d.5	Use communication skills effectively when break bad news to patients
d.6	Communicate professionaly outside of dentistry.

d.7	Demonstrate competence in understanding the working of, and leading, a team and in the management of conflict within teams.

4. Course Content

Course Contents	Symposia	Seminars
Removable Prosthodontics	Occlusion	
	Immediate Dentures	
	CAD/CAM	
	Introduction to Maxillofacial Prosthesis	
	Dental Implantology (Restorative)	
Fixed Prosthodontics	Metal Ceramic Restorations	
	All Ceramic Restoration	
	Try-in	
	Appropriate Selection and Use of Cements	
	Posterior Partial Coverage	
	Crown and Bridge Maintenance and Failure	
Conservative Dentistry	Teeth Wear	
	Dentine Hypersensitivity	
	Glass Ionomer	
	Failure and Repair	
	Indirect Aesthetic Restorations	
	Deep Margin Elevation	
Periodontology	Antimicrobial Therapy	
	Perio/Restorative Interface	
	Recent Diagnostic Tools of Periodontal Disease	
Endodontics	Internal Resorption	Revision on Endodontic Techniques
	External Resorption	Clinical Techniques in Rotary Instrumentation
Oral and Maxillofacial Surgery/ Oral pathology	Bone Graft	Infection
	Salivary Gland Disorders	Cyst
	Management of Medically Compromised Patients	Impaction

	TMJ	Fracture
	Odontogenic Tumors	Avoiding errors in practice
	Laser	Salivary gland diseases
	Dental Implantology (Introduction)	Odontogenic tumors
Orthodontics	Diagnosis	Examination and Diagnosis
	Limiting Factors	Classification of Malocclusion
	Guidelines for Orthodontic Management of Traumatized Tooth	Growth Modification
	Orthodontic Treatment for Special Needs	Functional Appliances
	Interrelationship of Orthodontics with Restorative Dentistry	Methods of Gaining Spaces
	Updates in Orthodontics	Interceptive Orthodontics
	Risks in Orthodontic Treatment	
	Trauma	
Pediatric Dentistry	Examination & Treatment Planning	Gingival and Periodontal Diseases
	Local anesthesia and Pain Control	Minor Irregularities in mixed Dentition
	Behavioral Management	Eruption Problems
	Medically Compromised Children	
	Traumatic Dental Injuries	
Oral Medicine	Laboratory investigations	Ulcers.
	Biopsy	Giant Cell Lesions
	Prescription	Pigmented Lesions.
		White Lesions
Oral Radiology	CBCT	Periapical radio-opacities & radiolucencies
		Radiation Protection
	MRI	Differential diagnosis of radiolucent lesions
		Radiographic appearance of caries and periodontal diseases

Clinical Contents	Clinical Topics
Removable Prosthodontics	Construction of metallic RPD/ at least one
	Construction of acrylic RPD / at least two
	Construction of complete dentures/ at least four per arch
	Abutment preparation for tooth overdenture
	Impression for tooth overdenture
Fixed Prosthodontics	Provision of metal ceramic/ ceramic crown preparation
	Follow up on metal ceramic crown / ceramic preparation on patients
Conservative Dentistry	Provision of direct restoration "amalgam or composite" on adult patients
	Follow up of provision of direct restoration "amalgam or composite" on adult patients
Periodontology	Management of Periodontal disease on adult patients
Endodontics	Revision on Endodontic Techniques
	Endodontic treatment on adult patients /single and multirooted teeth
	Clinical Techniques in Rotary Instrumentation
Oral and Maxillofacial Surgery	Clinical cases
	Cyst
	Impaction
	Fracture
	Avoiding errors in practice
Orthodontics	Clinical examination
	Classification of malocclusion
	Growth Modification
	Functional Appliances
	Methods of Gaining Spaces
	Interceptive Orthodontics
Pediatric Dentistry	Space maintainer
	Arch length analysis
	Treatment plan
	Pulpotomy
	St. St. crown
	Zirconia crown
Oral Medicine	White lesions
	Oral ulcerations

	Giant Cell Lesions
	Pigmented Lesions.
Oral Radiology	Radiation Protection
	Differential diagnosis of radiolucent lesions
	Radiographic appearance of caries and periodontal diseases

Course work content	Symposia	Discipline
Clinical governance	What is clinical governance?	**Dental Public Health**
	How to conduct auditing in dental clinic?	
	How to present a case scenario from all points?	
Case scenario	How to write a research proposal?	
	How to be Professional?	
	Is the referring dentist skillful?	
	Leading a dental team, a conflict management	
	Communication during appointments	
	Breaking bad news	
	Leadership	

5. Contact Hours

No	Activity	Contact Hours
1	**Lecture**	8hrs/week
2	**Laboratory/clinical (Practical)**	14hrs/week
3	**EBL**	2hrs/week
4	**Self- learning/ material collection**	4hrs/week
4	**Office hours**	2hrs/week
	Total	30hrs/week

6. Teaching and learning methods

(Alignment of Teaching Methods with ILOS)

No	Method	Basic knowledge	Intellectual Skills	Professional Skills	General Skills
1	Lectures/Symposia	√	√		
2	EBL/Problem based learning	√	√	√	√
3	Clinical / practical sessions	√		√	√
4	Seminars	√	√	√	√

7. Teaching and learning methods of disables

None

8. Student Assessments

8.1. Assessment Methods

(Alignment of Assessment Methods with ILOS)

No	Method	Basic knowledge	Intellectual Skills	Professional Skills	General Skills
1	EBL	√	√		√
2	Research Proposal	√	√		
3	Case Scenarios	√	√		√
4	Clinical Governance		√	√	√
5	MCQ Exam (Formative and Summative)	√	√		
6	SAP Exam (Formative and Summative)	√	√		
7	Seen Case Presentation	√	√	√	
8	Unseen Structured Oral Exam	√	√		√

8.2. Assessment length, degree, and proportion of total Assessment Score

No	Method	Week
1	EBL	At 2nd session of EBL cases (7 cases during the year)
	Clinical Governance	During 2nd Semester
	Case Scenarios	During 2nd Semester
	Research Proposal	During 2nd Semester
2	Formative exams (MCQ, SAP)	At the end of 1st Semester
3	Summative exams (MCQ, SAP)	At the end of year
	Seen Case Presentation	At the end of year
	Unseen Structured Oral Exam	At the end of year
No	**Method**	**Weight**
1	Clinical Governance	Pass/Fail
2	Case Scenarios	Pass/Fail
3	MCQ	280/1300=21.5%
4	SAP	370/1300=28.5%
5	Seen Case Presentation	350/1300=30%
6	Unseen Structured Oral Exam	300/1300=20%
Total		100%

9. Learning Resources and Facilities

9.1. Learning Resources

Required Textbooks	1. Medical pharmacology & therapeutics. Waller, Derek, Sampson, Anthony P., Renwick, Andrew G., Hillier, Keith 2014 2. Seltzer and Bender's Dental Pulp by Kenneth M. Hargreaves, Harold E. Goodis, Franklin R. Tay. Quintessence Publishing Co,Inc. Second Edition 2012 3. A clinical guide to temporomandibular disorders - R. J. M. Gray, S. J. Davies, A. A. Quayle, British Dental Association 1995 4. Fundamentals of fixed prosthodontics - Shillingburg, Herbert T. c2012 5. Prosthodontic treatment for edentulous patients: complete dentures and implant-supported prostheses - George A. Zarb, Aaron H. Fenton2013 6. Essentials of dental caries: the disease and its management - Edwina A. M.Kidd 7. Color atlas of oral pathology - Eveson, J. W., Scully, C. M. 1995 8. A clinical guide to oral medicine - Lamey, Philip-John, Lewis, Michael A. O. 1997 9. Master dentistry: Volume 1: Oral and maxillofacial surgery, radiology, pathology and oral medicine - Coulthard, Paul 2013 10. A clinical guide to periodontology - Palmer, Richard M., Ide, Mark, Floyd, Peter D. 2013 11.

Electronic Materials	• Guidelines for the orthodontic management of the traumatized tooth • Limiting Factors in Orthodontic Treatment: 1. Factors Related to Patient, Operator and Orthodontic Appliances • Limiting Factors in Orthodontic Treatment: 2. The Biological Limitations of Orthodontic Treatment • Dental trauma: an overview of its influence on the management of orthodontic treatment. Part 1 • Dental trauma: part 2. Managing poor prognosis anterior teeth – treatment options for the subsequent space in a growing patient • General Guidelines for Referring Dental Patients • A new classification scheme for periodontal and peri-implant diseases and conditions – Introduction and key changes from the 1999 classification • What's new in orthodontics? An update on contemporary clinical technologies • Technological Advances in Nontraditional Orthodontics • Interaction between the Orthodontist and the Pediatric Dentist-An Overview • Dental Care and Treatment of Children with Diabetes Mellitus - An Overview • International Association of Dental Traumatology Guidelines for the Management of Traumatic Dental Injuries: 2. Avulsion of Permanent Teeth • International Association of Dental Traumatology Guidelines for the Management of Traumatic Dental Injuries: 1. Fractures and Luxations • International Association of Dental Traumatology Guidelines for the Management of Traumatic Dental Injuries: 3. Injuries in the Primary Dentition
Other Learning Materials	

9.2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	- Classroom / EBL rooms/ Clinics / Labs
Technology Resources (AV, data show, Smart Screen, software, etc.)	- PCs + Data Show + Smart Screen
Other Resources	- Internet Connection

Item	Resources
(Specify, e.g., if specific laboratory equipment is required, list requirements or attach a list)	

10. Matrix of course ILOS and the course content

Items	Details	Basic knowledge	Intellectual Skills	Professional Skills	General Skills
Year Contents	Communication Skills		b.1, b.3	c.1, c.2, c.3	d.1, d.2, d.5, d.6, d.7
	Pediatric Dentistry	a.1, a.2, a.4	b.1, b.2	c.2, c.3, c.7	d.4
	Oral Radiology	a.1	b.3	c.4	d.5
	Periodontology	a.1, a.2, a.4		c.2	
	Endodontics	a.1, a.4		c.2	
	Orthodontics	a.1, a.2, a.4	b.1, b.2	c.2, c.3, c.6	
	Oral and Maxillofacial Surgery	a.1, a.2, a.4	b.1, b.2	c.2, c.3, c.6, c.7	d.4
	Oral Medicine	a.1			d.4, d.5
	Operative Dentistry	a.1, a.4		c.2, c.5	
	Fixed Prosthodontics	a.1, a.2, a.4		c.2, c.3, c.6	
	Removable Prosthodontics	a.1, a.2, a.4		c.2, c.3, c.6	
	Professionalism		b.2, b.3	c.1, c.3, c.4	d.1, d.2, d.3. d.5, d.6, d.7
	Referral				d.3, d.6
Teaching and Learning Methods	Lectures/Symposia	a.1, a.2	b.1, b.2, b.3		
	EBL/Problem based learning	a.1, a.2	b.1	c.6, c.7	d.4
	Clinical Sessions	a.1, a.2, a.4		c.2, c.3, c.4, c.5, c.6, c.7	d.4, d.5, d.6, d.7
Activities and Sources of Teaching and Learning	EBL Sessions	a.1, a.2	b.1	c.6, c.7	d.4
	Research Proposal	a.3	b.2		

	Poster Presentation	a.1		c.5	d.4
Student Assessment	EBL	a.1, a.2	b.1		d.4
	Research Proposal	a.3	b.2		
	Case Scenarios	a.1, a.2	b.1		d.4
	Clinical Governance		b.2	c.4	d.1
	MCQ Exam (Formative and Summative)	a.1, a.2	b.1		
	SAP Exam (Formative and Summative)	a.1, a.2	b.1		
	Seen Case Presentation	a.4	b.1	c.5, c.6, c.7	
	Unseen Structured Oral Exam	a.1, a.2	b.1		d.4

Matrix of Year course ILOs and program ILOs:

Course ILOs	Program ILOs										
	A. Knowledge and understanding										
	A.1	A.2	A.3	A.4	A.5	A.6	A.7	A.8			
a.1					√			√			
a.2	√	√									
a.3						√					
a.4				√							
B. Intellectual skills											
	B.1	B.2	B.3	B.4	B.5	B.6	B.7	B.8			
b.1	√	√									
b.2			√					√			
b.3				√							
c. Professional and practical skills											
	C.1	C.2	C.3	C.4	C.5	C.6	C.7	C.8	C.9	C.10	C.11
c.1										√	√
c.2		√									

c.3											√
c.4			√	√	√						
c.5	√										
c.6						√					
c.7									√		

d. General and transferable skills

	D. 1	D. 2	D. 3	D. 4	D. 5	D. 6	D. 7	D. 8	D. 9	D. 10	D. 11	D. 12
d.1	√											
d.2						√						
d.3							√					
d.4										√		
d.5					√							
d.6											√	
d.7								√	√			

11. Student Academic Counseling and Support

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

Year Coordinator(s)

Assist. Prof. Dr**/ Dina Samy**

Dr**/ Muhammed Talaat**

Year Director

Prof. Dr/ **Rabab Ibrahim Salama**

Program Director

Prof. Dr/ Radwa Emera

Mansoura Manchester Dental Program

Year specification

5th year

2022/2023

Year Specification

Program Name	**Mansoura Manchester Dental Program**
Program	Bachelor of Dental science-MMDP
Year Title	**5th year MMDP**
Year Code	MMDPY5
Academic year	2022-2023
Program council approval date	

1. Course Identification

Course Title	**5th year MMDP**
Course Code	MMDPY5
Program	Bachelor of Dental science-MMDP
Number of hours	1200 /national hours

2. Course Description & Objectives

• **Course Description**	The scientific content with different disciplines provide the students with essential and high level of communication skills and professionalism. Student will be able to on holistic patient care, with an emphasis on the diagnosis and treatment planning of cases across all clinical specialties and on managing your final year cases to the very highest standard.
• **Course Objective**	By the end of this course student will be able to; 1. Understand the complex issues involved in the scientific basis of dentistry. 2. Apply intellectual skills, knowledge, and behavior in the field of dentistry. 3. Reflective, committed to lifelong learning 4. Treat integrated cases in a professional manner. 5. Understand knowledge and professionalism for referral of cases that need special care. 6. Lead a team and managing any conflict within the team. 7. Deal professionally with patients, staff and professionals colleagues.

3. Intended Learning Outcomes (ILOS) of the course

a	**Knowledge and understanding**
a.1	Demonstrate a systematic approach to diagnosis and treatment planning, which enables comprehensive, efficient, effective and holistic patient care.
a.2	Understanding of the psychological, mental, emotional and sociological aspects of patients to enable appropriate treatment planning
a.3	Demonstrate research governance and the issues involved in undertaking clinical dental research.
a.4	Demonstrate competence in handling dental instruments and materials used at this stage of their training safely and understand the principles underlying current cross infection guidelines
b	**Intellectual skills**
b.1	Synthesis, modify and adapt patient care, taking into account relevant medical conditions, disabilities and special needs.
b.2	Demonstrate understanding of clinical governance and the ability to write and evaluate clinical audit protocols that are relevant to Primary Care Dentistry
b.3	Demonstrate an understanding of NHS structures and future careers paths.
c	**Professional and Practical skills**
c.1	Apply management and leadership skills with all members of the dental team whose roles affect patient care, including the management of conflict in the team.
c.2	Utilize communication skills appropriately and effectively in anxiety situations in a general dental practice setting
c.3	Apply communication skills to discuss and negotiate payment and payment plans with patients.
c.4	Demonstrate the ability to discharge the legal and professional responsibilities of a dentist with respect to patient care including the provisions of Ionizing Radiation (Medical Exposure) Regulations, complaints management with regard to current guidance from the General Dental Council
c.5	Demonstrate clinical competence in the range of dental procedures normally carried out in a primary dental care setting with limited supervision.
c.6	Recognize how failures of mastication, including occlusion and related dento-facial deformity, and deglutition may present in dental practice and understand the principles of their management
c.7	Differentiate between anxiety management and sedation techniques when appropriate to enable the effective delivery of dental care to both children and adults.
d	**General and transferable skills**
d.1	Display appropriate communicate skills to prospective employers.
d.2	Demonstrate an awareness of the need for CPD for all the dental team
d.3	Recognize when refer to a Specialist/DCP.
d.4	Demonstrate competence in managing medical and dental emergencies, including trauma, that may occur or present in dental practice including the ability to perform basic life support procedures.
d.5	Use communication skills effectively when break bad news to patients
d.6	Communicate professionaly outside of dentistry.

d.7	Demonstrate competence in understanding the working of, and leading, a team and in the management of conflict within teams.

4. Course Content

Course Contents	Symposia	Seminars
Removable Prosthodontics	Occlusion	
	Immediate Dentures	
	CAD/CAM	
	Introduction to Maxillofacial Prosthesis	
	Dental Implantology (Restorative)	
Fixed Prosthodontics	Metal Ceramic Restorations	
	All Ceramic Restoration	
	Try-in	
	Appropriate Selection and Use of Cements	
	Posterior Partial Coverage	
	Crown and Bridge Maintenance and Failure	
Conservative Dentistry	Teeth Wear	
	Dentine Hypersensitivity	
	Glass Ionomer	
	Failure and Repair	
	Indirect Aesthetic Restorations	
	Deep Margin Elevation	
Periodontology	Antimicrobial Therapy	
	Perio/Restorative Interface	
	Recent Diagnostic Tools of Periodontal Disease	
Endodontics	Internal Resorption	Revision on Endodontic Techniques
	External Resorption	Clinical Techniques in Rotary Instrumentation
Oral and Maxillofacial Surgery	Bone Graft	Infection
	Salivary Gland Disorders	Avoiding errors in practice
	Management of Medically Compromised Patients	Impaction

	TMJ	Fracture
	Odontogenic Tumors	Avoiding errors in practice
	Laser	
	Dental Implantology (Introduction)	
Orthodontics	Diagnosis	Examination and Diagnosis
	Limiting Factors	Classification of Malocclusion
	Guidelines for Orthodontic Management of Traumatized Tooth	Growth Modification
	Orthodontic Treatment for Special Needs	Functional Appliances
	Interrelationship of Orthodontics with Restorative Dentistry	Methods of Gaining Spaces
	Updates in Orthodontics	Interceptive Orthodontics
	Risks in Orthodontic Treatment	
	Trauma	
Pediatric Dentistry	Examination & Treatment Planning	Gingival and Periodontal Diseases
	Local anesthesia and Pain Control	Minor Irregularities in mixed Dentition
	Behavioral Management	Eruption Problems
	Medically Compromised Children	
	Traumatic Dental Injuries	
Oral Medicine	Laboratory investigations	Ulcers.
	Biopsy	Giant Cell Lesions
	Prescription	Pigmented Lesions.
		White Lesions
Oral Radiology	CBCT	Periapical radio-opacities & radiolucencies
		Radiation Protection
	MRI	Differential diagnosis of radiolucent lesions
		Radiographic appearance of caries and periodontal diseases

Clinical Contents	Clinical Topics
Removable Prosthodontics	Construction of metallic RPD/ at least one
	Construction of acrylic RPD / at least two
	Construction of complete dentures/ at least four per arch
	Abutment preparation for tooth overdenture
	Impression for tooth overdenture
Fixed Prosthodontics	Provision of metal ceramic/ ceramic crown preparation
	Follow up on metal ceramic crown / ceramic preparation on patients
Conservative Dentistry	Provision of direct restoration "amalgam or composite" on adult patients
	Follow up of provision of direct restoration "amalgam or composite" on adult patients
Periodontology	Management of Periodontal disease on adult patients
Endodontics	Revision on Endodontic Techniques
	Endodontic treatment on adult patients /single and multirooted teeth
	Clinical Techniques in Rotary Instrumentation
Oral and Maxillofacial Surgery	Clinical cases
	Cyst
	Impaction
	Fracture
	Avoiding errors in practice
Orthodontics	Clinical examination
	Classification of malocclusion
	Growth Modification
	Functional Appliances
	Methods of Gaining Spaces
	Interceptive Orthodontics
Pediatric Dentistry	Space maintainer
	Arch length analysis
	Treatment plan
	Pulpotomy
	St. St. crown
	Zirconia crown
Oral Medicine	White lesions
	Oral ulcerations

	Giant Cell Lesions
	Pigmented Lesions.
Oral Radiology	Radiation Protection
	Differential diagnosis of radiolucent lesions
	Radiographic appearance of caries and periodontal diseases

Course work content	Symposia	Discipline
Clinical governance	What is clinical governance?	**Dental Public Health**
	How to conduct auditing in dental clinic?	
	How to present a case scenario from all points?	
Case scenario	How to write a research proposal?	
	How to be Professional?	
	Is the referring dentist skillful?	
	Leading a dental team, a conflict management	
	Communication during appointments	
	Breaking bad news	
	Leadership	

5. Contact Hours

No	Activity	Contact Hours
1	**Lecture**	8hrs/week
2	**Laboratory/clinical (Practical)**	14hrs/week
3	**EBL**	2hrs/week
4	**Self- learning/ material collection**	4hrs/week
4	**Office hours**	2hrs/week
	Total	30hrs/week

6. Teaching and learning methods

(Alignment of Teaching Methods with ILOS)

No	Method	Basic knowledge	Intellectual Skills	Professional Skills	General Skills
1	Lectures/Symposia	√	√		
2	EBL/Problem based learning	√	√	√	√
3	Clinical / practical sessions	√		√	√
4	Seminars	√	√	√	√

7. Teaching and learning methods of disables

None

8. Student Assessments

8.1. Assessment Methods

(Alignment of Assessment Methods with ILOS)

No	Method	Basic knowledge	Intellectual Skills	Professional Skills	General Skills
1	EBL	√	√		√
2	Research Proposal	√	√		
3	Case Scenarios	√	√		√
4	Clinical Governance		√	√	√
5	MCQ Exam (Formative and Summative)	√	√		
6	SAP Exam (Formative and Summative)	√	√		
7	Seen Case Presentation	√	√	√	
8	Unseen Structured Oral Exam	√	√		√

8.2. Assessment length, degree, and proportion of total Assessment Score

No	Method	Week
1	EBL	At 2nd session of EBL cases (7 cases during the year)
	Clinical Governance	During 2nd Semester
	Case Scenarios	During 2nd Semester
	Research Proposal	During 2nd Semester
2	Formative exams (MCQ, SAP)	At the end of 1st Semester
3	Summative exams (MCQ, SAP)	At the end of year
	Seen Case Presentation	At the end of year
	Unseen Structured Oral Exam	At the end of year
No	**Method**	**Weight**
1	Clinical Governance	Pass/Fail
2	Case Scenarios	Pass/Fail
3	MCQ	280/1300=21.5%
4	SAP	370/1300=28.5%
5	Seen Case Presentation	350/1300=30%
6	Unseen Structured Oral Exam	300/1300=20%
Total		100%

9. Learning Resources and Facilities

9.1. Learning Resources

Required Textbooks	1. Medical pharmacology & therapeutics. Waller, Derek, Sampson, Anthony P., Renwick, Andrew G., Hillier, Keith 2014 2. Seltzer and Bender's Dental Pulp by Kenneth M. Hargreaves, Harold E. Goodis, Franklin R. Tay. Quintessence Publishing Co,Inc. Second Edition 2012 3. A clinical guide to temporomandibular disorders - R. J. M. Gray, S. J. Davies, A. A. Quayle, British Dental Association 1995 4. Fundamentals of fixed prosthodontics - Shillingburg, Herbert T. c2012 5. Prosthodontic treatment for edentulous patients: complete dentures and implant-supported prostheses - George A. Zarb, Aaron H. Fenton2013 6. Essentials of dental caries: the disease and its management - Edwina A. M.Kidd 7. Color atlas of oral pathology - Eveson, J. W., Scully, C. M. 1995 8. A clinical guide to oral medicine - Lamey, Philip-John, Lewis, Michael A. O. 1997 9. Master dentistry: Volume 1: Oral and maxillofacial surgery, radiology, pathology and oral medicine - Coulthard, Paul 2013 10. A clinical guide to periodontology - Palmer, Richard M., Ide, Mark, Floyd, Peter D. 2013 11.

Electronic Materials	• Guidelines for the orthodontic management of the traumatized tooth • Limiting Factors in Orthodontic Treatment: 1. Factors Related to Patient, Operator and Orthodontic Appliances • Limiting Factors in Orthodontic Treatment: 2. The Biological Limitations of Orthodontic Treatment • Dental trauma: an overview of its influence on the management of orthodontic treatment. Part 1 • Dental trauma: part 2. Managing poor prognosis anterior teeth – treatment options for the subsequent space in a growing patient • General Guidelines for Referring Dental Patients • A new classification scheme for periodontal and peri-implant diseases and conditions – Introduction and key changes from the 1999 classification • What's new in orthodontics? An update on contemporary clinical technologies • Technological Advances in Nontraditional Orthodontics • Interaction between the Orthodontist and the Pediatric Dentist-An Overview • Dental Care and Treatment of Children with Diabetes Mellitus - An Overview • International Association of Dental Traumatology Guidelines for the Management of Traumatic Dental Injuries: 2. Avulsion of Permanent Teeth • International Association of Dental Traumatology Guidelines for the Management of Traumatic Dental Injuries: 1. Fractures and Luxations • International Association of Dental Traumatology Guidelines for the Management of Traumatic Dental Injuries: 3. Injuries in the Primary Dentition
Other Learning Materials	

9.2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	- Classroom / EBL rooms/ Clinics / Labs
Technology Resources (AV, data show, Smart Screen, software, etc.)	- PCs + Data Show + Smart Screen
Other Resources	- Internet Connection

Item	Resources
(Specify, e.g., if specific laboratory equipment is required, list requirements or attach a list)	

10. Matrix of course ILOS and the course content

Items	Details	Basic knowledge	Intellectual Skills	Professional Skills	General Skills
Year Contents	Communication Skills		b.1, b.3	c.1, c.2, c.3	d.1, d.2, d.5, d.6, d.7
	Pediatric Dentistry	a.1, a.2, a.4	b.1, b.2	c.2, c.3, c.7	d.4
	Oral Radiology	a.1	b.3	c.4	d.5
	Periodontology	a.1, a.2, a.4		c.2	
	Endodontics	a.1, a.4		c.2	
	Orthodontics	a.1, a.2, a.4	b.1, b.2	c.2, c.3, c.6	
	Oral and Maxillofacial Surgery	a.1, a.2, a.4	b.1, b.2	c.2, c.3, c.6, c.7	d.4
	Oral Medicine	a.1			d.4, d.5
	Operative Dentistry	a.1, a.4		c.2, c.5	
	Fixed Prosthodontics	a.1, a.2, a.4		c.2, c.3, c.6	
	Removable Prosthodontics	a.1, a.2, a.4		c.2, c.3, c.6	
	Professionalism		b.2, b.3	c.1, c.3, c.4	d.1, d.2, d.3. d.5, d.6, d.7
	Referral				d.3, d.6
Teaching and Learning Methods	Lectures/Symposia	a.1, a.2	b.1, b.2, b.3		
	EBL/Problem based learning	a.1, a.2	b.1	c.6, c.7	d.4
	Clinical Sessions	a.1, a.2, a.4		c.2, c.3, c.4, c.5, c.6, c.7	d.4, d.5, d.6, d.7
Activities and Sources of Teaching and Learning	EBL Sessions	a.1, a.2	b.1	c.6, c.7	d.4
	Research Proposal	a.3	b.2		

	Poster Presentation	a.1		c.5	d.4
Student Assessment	EBL	a.1, a.2	b.1		d.4
	Research Proposal	a.3	b.2		
	Case Scenarios	a.1, a.2	b.1		d.4
	Clinical Governance		b.2	c.4	d.1
	MCQ Exam (Formative and Summative)	a.1, a.2	b.1		
	SAP Exam (Formative and Summative)	a.1, a.2	b.1		
	Seen Case Presentation	a.4	b.1	c.5, c.6, c.7	
	Unseen Structured Oral Exam	a.1, a.2	b.1		d.4

Matrix of Year course ILOs and program ILOs:

Course ILOs	Program ILOs										
	A. Knowledge and understanding										
	A.1	A.2	A.3	A.4	A.5	A.6	A.7	A.8			
a.1					√			√			
a.2	√	√									
a.3						√					
a.4				√							
B. Intellectual skills											
	B.1	B.2	B.3	B.4	B.5	B.6	B.7	B.8			
b.1	√	√									
b.2			√					√			
b.3				√							
c. Professional and practical skills											
	C.1	C.2	C.3	C.4	C.5	C.6	C.7	C.8	C.9	C.10	C.11
c.1										√	√
c.2		√									

c.3											√
c.4			√	√	√						
c.5	√										
c.6						√					
c.7									√		

d. General and transferable skills

	D. 1	D. 2	D. 3	D. 4	D. 5	D. 6	D. 7	D. 8	D. 9	D. 10	D. 11	D. 12
d.1	√											
d.2						√						
d.3							√					
d.4										√		
d.5					√							
d.6											√	
d.7								√	√			

11. Student Academic Counseling and Support

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

Year Coordinator(s)

Assist. Prof. Dr**/ Mai Hagag**

Dr**/ Heba Nabil**

Year Director

Assist. Prof. Dr**/ Osama Asker**

Program Director

Prof. Abeer Abdelatif

Mansoura Manchester Dental Program

Year specification

5th year

2021/2022

Year Specification

Program Name	**Mansoura Manchester Dental Program**
Program	Bachelor of Dental science-MMDP
Year Title	**5th year MMDP**
Year Code	MMDPY5
Academic year	2021-2022

1. Course Identification

Course Title	**5th year MMDP**
Course Code	MMDPY5
Program	Bachelor of Dental science-MMDP
Number of hours	1200 /national hours

2. Course Description & Objectives

• **Course Description**	The scientific content with different disciplines provide the students with essential and high level of communication skills and professionalism. Student will be able to on holistic patient care, with an emphasis on the diagnosis and treatment planning of cases across all clinical specialties and on managing your final year cases to the very highest standard.
• **Course Objective**	By the end of this course student will be able to; 1. Understand the complex issues involved in the scientific basis of dentistry. 2. Apply intellectual skills, knowledge, and behavior in the field of dentistry. 3. Reflective, committed to lifelong learning 4. Treat integrated cases in a professional manner. 5. Understand knowledge and professionalism for referral of cases that need special care. 6. Lead a team and managing any conflict within the team. 7. Deal professionally with patients, staff and professionals colleagues.

3. Intended Learning Outcomes (ILOS) of the course

a	**Knowledge and understanding**
a.1	Demonstrate a systematic approach to diagnosis and treatment planning, which enables comprehensive, efficient, effective and holistic patient care.
a.2	Understanding of the psychological, mental, emotional and sociological aspects of patients to enable appropriate treatment planning
a.3	Demonstrate research governance and the issues involved in undertaking clinical dental research.
a.4	Demonstrate competence in handling dental instruments and materials used at this stage of their training safely and understand the principles underlying current cross infection guidelines
b	**Intellectual skills**
b.1	Synthesis, modify and adapt patient care, taking into account relevant medical conditions, disabilities and special needs.
b.2	Demonstrate understanding of clinical governance and the ability to write and evaluate clinical audit protocols that are relevant to Primary Care Dentistry
b.3	Demonstrate an understanding of NHS structures and future careers paths.
c	**Professional and Practical skills**
c.1	Apply management and leadership skills with all members of the dental team whose roles affect patient care, including the management of conflict in the team.
c.2	Utilize communication skills appropriately and effectively in anxiety situations in a general dental practice setting
c.3	Apply communication skills to discuss and negotiate payment and payment plans with patients.
c.4	Demonstrate the ability to discharge the legal and professional responsibilities of a dentist with respect to patient care including the provisions of Ionizing Radiation (Medical Exposure) Regulations, complaints management with regard to current guidance from the General Dental Council
c.5	Demonstrate clinical competence in the range of dental procedures normally carried out in a primary dental care setting with limited supervision.
c.6	Recognize how failures of mastication, including occlusion and related dento-facial deformity, and deglutition may present in dental practice and understand the principles of their management
c.7	Differentiate between anxiety management and sedation techniques when appropriate to enable the effective delivery of dental care to both children and adults.
d	**General and transferable skills**
d.1	Display appropriate communicate skills to prospective employers.
d.2	Demonstrate an awareness of the need for CPD for all the dental team
d.3	Recognize when refer to a Specialist/DCP.
d.4	Demonstrate competence in managing medical and dental emergencies, including trauma, that may occur or present in dental practice including the ability to perform basic life support procedures.
d.5	Use communication skills effectively when break bad news to patients
d.6	Communicate professionaly outside of dentistry.

d.7	Demonstrate competence in understanding the working of, and leading, a team and in the management of conflict within teams.

4. Course Content

Course Contents	Symposia	Seminars
Removable Prosthodontics	Occlusion	
	Immediate Dentures	
	CAD/CAM	
	Introduction to Maxillofacial Prosthesis	
	Dental Implantology (Restorative)	
Fixed Prosthodontics	Metal Ceramic Restorations	
	All Ceramic Restoration	
	Try-in	
	Appropriate Selection and Use of Cements	
	Posterior Partial Coverage	
	Crown and Bridge Maintenance and Failure	
Conservative Dentistry	Teeth Wear	
	Dentine Hypersensitivity	
	Glass Ionomer	
	Failure and Repair	
	Indirect Aesthetic Restorations	
	Deep Margin Elevation	
Periodontology	Antimicrobial Therapy	
	Perio/Restorative Interface	
	Recent Diagnostic Tools of Periodontal Disease	
Endodontics	Internal Resorption	Revision on Endodontic Techniques
	External Resorption	Clinical Techniques in Rotary Instrumentation
Oral and Maxillofacial Surgery	Bone Graft	Infection
	Salivary Gland Disorders	Avoiding errors in practice
	Management of Medically Compromised Patients	Impaction

	TMJ	Fracture
	Odontogenic Tumors	Avoiding errors in practice
	Laser	
	Dental Implantology (Introduction)	
Orthodontics	Diagnosis	Examination and Diagnosis
	Limiting Factors	Classification of Malocclusion
	Guidelines for Orthodontic Management of Traumatized Tooth	Growth Modification
	Orthodontic Treatment for Special Needs	Functional Appliances
	Interrelationship of Orthodontics with Restorative Dentistry	Methods of Gaining Spaces
	Updates in Orthodontics	Interceptive Orthodontics
	Risks in Orthodontic Treatment	
	Trauma	
Pediatric Dentistry	Examination & Treatment Planning	Gingival and Periodontal Diseases
	Local anesthesia and Pain Control	Minor Irregularities in mixed Dentition
	Behavioral Management	Eruption Problems
	Medically Compromised Children	
	Traumatic Dental Injuries	
Oral Medicine	Laboratory investigations	Ulcers.
	Biopsy	Giant Cell Lesions
	Prescription	Pigmented Lesions.
		White Lesions
Oral Radiology	CBCT	Periapical radio-opacities & radiolucencies
		Radiation Protection
	MRI	Differential diagnosis of radiolucent lesions
		Radiographic appearance of caries and periodontal diseases

Clinical Contents	Clinical Topics
Removable Prosthodontics	Construction of metallic RPD/ at least one
	Construction of acrylic RPD / at least two
	Construction of complete dentures/ at least four per arch
	Abutment preparation for tooth overdenture
	Impression for tooth overdenture
Fixed Prosthodontics	Provision of metal ceramic/ ceramic crown preparation
	Follow up on metal ceramic crown / ceramic preparation on patients
Conservative Dentistry	Provision of direct restoration "amalgam or composite" on adult patients
	Follow up of provision of direct restoration "amalgam or composite" on adult patients
Periodontology	Management of Periodontal disease on adult patients
Endodontics	Revision on Endodontic Techniques
	Endodontic treatment on adult patients /single and multirooted teeth
	Clinical Techniques in Rotary Instrumentation
Oral and Maxillofacial Surgery	Clinical cases
	Cyst
	Impaction
	Fracture
	Avoiding errors in practice
Orthodontics	Clinical examination
	Classification of malocclusion
	Growth Modification
	Functional Appliances
	Methods of Gaining Spaces
	Interceptive Orthodontics
Pediatric Dentistry	Space maintainer
	Arch length analysis
	Treatment plan
	Pulpotomy
	St. St. crown
	Zirconia crown
Oral Medicine	White lesions
	Oral ulcerations

	Giant Cell Lesions
	Pigmented Lesions.
Oral Radiology	Radiation Protection
	Differential diagnosis of radiolucent lesions
	Radiographic appearance of caries and periodontal diseases

Course work content	Symposia	Discipline
Clinical governance	What is clinical governance?	**Dental Public Health**
	How to conduct auditing in dental clinic?	
	How to present a case scenario from all points?	
Case scenario	How to write a research proposal?	
	How to be Professional?	
	Is the referring dentist skillful?	
	Leading a dental team, a conflict management	
	Communication during appointments	
	Breaking bad news	
	Leadership	

5. Contact Hours

No	Activity	Contact Hours
1	**Lecture**	8hrs/week
2	**Laboratory/clinical (Practical)**	14hrs/week
3	**EBL**	2hrs/week
4	**Self- learning/ material collection**	4hrs/week
4	**Office hours**	2hrs/week
	Total	30hrs/week

6. Teaching and learning methods

(Alignment of Teaching Methods with ILOS)

No	Method	Basic knowledge	Intellectual Skills	Professional Skills	General Skills
1	Lectures/Symposia	√	√		
2	EBL/Problem based learning	√	√	√	√
3	Clinical / practical sessions	√		√	√
4	Seminars	√	√	√	√

7. Teaching and learning methods of disables

None

8. Student Assessments

8.1. Assessment Methods

(Alignment of Assessment Methods with ILOS)

No	Method	Basic knowledge	Intellectual Skills	Professional Skills	General Skills
1	EBL	√	√		√
2	Research Proposal	√	√		
3	Case Scenarios	√	√		√
4	Clinical Governance		√	√	√
5	MCQ Exam (Formative and Summative)	√	√		
6	SAP Exam (Formative and Summative)	√	√		
7	Seen Case Presentation	√	√	√	
8	Unseen Structured Oral Exam	√	√		√

8.2. Assessment length, degree, and proportion of total Assessment Score

No	Method	Week
1	EBL	At 2nd session of EBL cases (7 cases during the year)
	Clinical Governance	During 2nd Semester
	Case Scenarios	During 2nd Semester
	Research Proposal	During 2nd Semester
2	Formative exams (MCQ, SAP)	At the end of 1st Semester
3	Summative exams (MCQ, SAP)	At the end of year
	Seen Case Presentation	At the end of year
	Unseen Structured Oral Exam	At the end of year
No	**Method**	**Weight**
1	Clinical Governance	Pass/Fail
2	Case Scenarios	Pass/Fail
3	MCQ	280/1300=21.5%
4	SAP	370/1300=28.5%
5	Seen Case Presentation	350/1300=30%
6	Unseen Structured Oral Exam	300/1300=20%
Total		100%

9. Learning Resources and Facilities

9.1. Learning Resources

Required Textbooks	1. Medical pharmacology & therapeutics. Waller, Derek, Sampson, Anthony P., Renwick, Andrew G., Hillier, Keith 2014 2. Seltzer and Bender's Dental Pulp by Kenneth M. Hargreaves, Harold E. Goodis, Franklin R. Tay. Quintessence Publishing Co,Inc. Second Edition 2012 3. A clinical guide to temporomandibular disorders - R. J. M. Gray, S. J. Davies, A. A. Quayle, British Dental Association 1995 4. Fundamentals of fixed prosthodontics - Shillingburg, Herbert T. c2012 5. Prosthodontic treatment for edentulous patients: complete dentures and implant-supported prostheses - George A. Zarb, Aaron H. Fenton2013 6. Essentials of dental caries: the disease and its management - Edwina A. M.Kidd 7. Color atlas of oral pathology - Eveson, J. W., Scully, C. M. 1995 8. A clinical guide to oral medicine - Lamey, Philip-John, Lewis, Michael A. O. 1997 9. Master dentistry: Volume 1: Oral and maxillofacial surgery, radiology, pathology and oral medicine - Coulthard, Paul 2013 10. A clinical guide to periodontology - Palmer, Richard M., Ide, Mark, Floyd, Peter D. 2013 11.

Electronic Materials	• Guidelines for the orthodontic management of the traumatized tooth • Limiting Factors in Orthodontic Treatment: 1. Factors Related to Patient, Operator and Orthodontic Appliances • Limiting Factors in Orthodontic Treatment: 2. The Biological Limitations of Orthodontic Treatment • Dental trauma: an overview of its influence on the management of orthodontic treatment. Part 1 • Dental trauma: part 2. Managing poor prognosis anterior teeth – treatment options for the subsequent space in a growing patient • General Guidelines for Referring Dental Patients • A new classification scheme for periodontal and peri-implant diseases and conditions – Introduction and key changes from the 1999 classification • What's new in orthodontics? An update on contemporary clinical technologies • Technological Advances in Nontraditional Orthodontics • Interaction between the Orthodontist and the Pediatric Dentist-An Overview • Dental Care and Treatment of Children with Diabetes Mellitus - An Overview • International Association of Dental Traumatology Guidelines for the Management of Traumatic Dental Injuries: 2. Avulsion of Permanent Teeth • International Association of Dental Traumatology Guidelines for the Management of Traumatic Dental Injuries: 1. Fractures and Luxations • International Association of Dental Traumatology Guidelines for the Management of Traumatic Dental Injuries: 3. Injuries in the Primary Dentition
Other Learning Materials	

9.2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	- Classroom / EBL rooms/ Clinics / Labs
Technology Resources (AV, data show, Smart Screen, software, etc.)	- PCs + Data Show + Smart Screen
Other Resources	- Internet Connection

Item	Resources
(Specify, e.g., if specific laboratory equipment is required, list requirements or attach a list)	

10. Matrix of course ILOS and the course content

Items	Details	Basic knowledge	Intellectual Skills	Professional Skills	General Skills
Year Contents	Communication Skills		b.1, b.3	c.1, c.2, c.3	d.1, d.2, d.5, d.6, d.7
	Pediatric Dentistry	a.1, a.2, a.4	b.1, b.2	c.2, c.3, c.7	d.4
	Oral Radiology	a.1	b.3	c.4	d.5
	Periodontology	a.1, a.2, a.4		c.2	
	Endodontics	a.1, a.4		c.2	
	Orthodontics	a.1, a.2, a.4	b.1, b.2	c.2, c.3, c.6	
	Oral and Maxillofacial Surgery	a.1, a.2, a.4	b.1, b.2	c.2, c.3, c.6, c.7	d.4
	Oral Medicine	a.1			d.4, d.5
	Operative Dentistry	a.1, a.4		c.2, c.5	
	Fixed Prosthodontics	a.1, a.2, a.4		c.2, c.3, c.6	
	Removable Prosthodontics	a.1, a.2, a.4		c.2, c.3, c.6	
	Professionalism		b.2, b.3	c.1, c.3, c.4	d.1, d.2, d.3. d.5, d.6, d.7
	Referral				d.3, d.6
Teaching and Learning Methods	Lectures/Symposia	a.1, a.2	b.1, b.2, b.3		
	EBL/Problem based learning	a.1, a.2	b.1	c.6, c.7	d.4
	Clinical Sessions	a.1, a.2, a.4		c.2, c.3, c.4, c.5, c.6, c.7	d.4, d.5, d.6, d.7
Activities and Sources of Teaching and Learning	EBL Sessions	a.1, a.2	b.1	c.6, c.7	d.4
	Research Proposal	a.3	b.2		

	Poster Presentation	a.1		c.5	d.4
Student Assessment	EBL	a.1, a.2	b.1		d.4
	Research Proposal	a.3	b.2		
	Case Scenarios	a.1, a.2	b.1		d.4
	Clinical Governance		b.2	c.4	d.1
	MCQ Exam (Formative and Summative)	a.1, a.2	b.1		
	SAP Exam (Formative and Summative)	a.1, a.2	b.1		
	Seen Case Presentation	a.4	b.1	c.5, c.6, c.7	
	Unseen Structured Oral Exam	a.1, a.2	b.1		d.4

Matrix of Year course ILOs and program ILOs:

Course ILOs	Program ILOs										
	A. Knowledge and understanding										
	A.1	A.2	A.3	A.4	A.5	A.6	A.7	A.8			
a.1					√			√			
a.2	√	√									
a.3						√					
a.4				√							
B. Intellectual skills											
	B.1	B.2	B.3	B.4	B.5	B.6	B.7	B.8			
b.1	√	√									
b.2			√					√			
b.3				√							
c. Professional and practical skills											
	C.1	C.2	C.3	C.4	C.5	C.6	C.7	C.8	C.9	C.10	C.11
c.1										√	√
c.2		√									

c.3											√
c.4			√	√	√						
c.5	√										
c.6						√					
c.7									√		

d. General and transferable skills

	D. 1	D. 2	D. 3	D. 4	D. 5	D. 6	D. 7	D. 8	D. 9	D. 10	D. 11	D. 12
d.1	√											
d.2						√						
d.3							√					
d.4										√		
d.5					√							
d.6											√	
d.7								√	√			

11. Student Academic Counseling and Support

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

Year Coordinator(s)

Assist. Prof. Dr**/ Mai Hagag**

Dr**/ Heba Nabil**

Year Director

Assist. Prof. Dr**/ Osama Asker**

Program Director

Prof. Dr/ Abeer Abdelatif

رؤية البرنامج

برنامج متميز عالميا ورائد في مجال التعليم الدولي لطب الأسنان.

رسالة البرنامج

إعداد خريج متميز علميا وباحث مواكب لأحدث التقنيات وقادر على الإسهام في التطور وذلك من خلال نظام الدراسة التكاملي وتهيئة البيئة التعليمة والبحثية مما يؤدى إلى تقدم مهنة طب الأسنان وخدمة المجتمع وتنمية البيئة.