COURSE SPECIFICATIONS PROGRAMME (B.D.S)

F&CULTY OF DENTISTRY

UNIVERSITY OF TRIPOLI

B.D.S Programme Specification

University	Tripoli
Faculty	Dentistry

A-Administrative Information

1. Programme Title:	Bachelor of Dental Medicine and Surgery (B.D.S)	
2. Award/degree:	B.D.S	
3. Department(s) responsible:	• Dental Anatomy (Dental Morphology).	
	• Dental Materials.	
	• Oral Histology.	
	Oral Pathology.	
	Conservative Dentistry & Endodontics.	
	• Fixed Prosthodontics.	
	Removable Prosthodontics.	
	• Orthodontics.	
	Oral Medicine, Oral Diagnosis & Radiology.	
	Periodontology.	
	Paedodontics.	
	• Oral Health & Preventive Dentistry.	
	Oral & Maxillofacial Surgery.	
	• Chemistry Physics, Statistics, Zoology, Arabic,	
	English & Medical Language.	
	• General Anatomy, Head & Neck, General Histology,	
	Physiology, Biochemistry, Microbiology, General	
	Pathology, Pharmacology, Internal Medicine, and	
	Dermatology, General surgery, Otolaryngology &	
	ophthalmology.	

B-Professional Information

1) Programme Aims:

The aim of the dental program is to produce a caring, knowledgeable, competent and skilful dentist who is able, on graduation, to accept professional responsibility for the effective and safe care of patients, who appreciates the need and value of lifelong learning, who is able to utilize advances in relevant knowledge and techniques and who understands the role of patients in decision making.

2) Academic standards

 a. External references selected to confirm the appropriateness of academic standards: National Academic Reference Standards (NARS) for Dentistry used as external reference **b.** Comparison of provision to selected external references:

b. Comparison of provision to selected external references:				
National Academic Reference Standards (NARS) for Dentistry	Program ILOs			
3) Knowledge and understanding				
	ental program, the graduate must know and			
understand the biomedical, dental and behavioural sciences that form the basis of				
human health and disease including:				
3.1.1 The interrelationship between	Interdependence between the various			
different systems of the human body.	systems of the human body.			
3.1.2 The principles of pathogenic	The principles of pathogenic mechanisms			
mechanisms and manifestations of	and manifestations of human diseases, which			
human diseases which are of dental	are important in dentistry.			
significance.				
3.1.3 Basis and significance of oral health	The principles and importance of health			
promotion, nutritional education and	promotion, health education and prevention			
prevention of oral diseases in	in relation to dental disease and how these			
population based approaches.	principles are applied in the context of			
	individuals and communities.			
3.1.4 Prevention and management of the	Diagnosis of the medical emergencies and			
medical emergencies.	knowing how to deal with them.			
3.1.5 Maintenance of infection control and	The scientific principles of sterilisation,			
a safe working environment.	disinfection and antisepsis to prevent cross-			
0	infection in clinical practice.			
3.1.6 Basis of practice management.	Principles of dental practice management.			
3.1.7 Principles of evidence-based	Principles of evidence based decision			
dentistry and its relation to scientific	making in dental practice.			
research.				
3.1.8 Ethical and medico-legal aspects	Dental ethical and medico-legal aspects in			
relevant to the practice of dentistry and	dental practice.			
research.				
3.1.9 Social and psychological issues	The importance of psychological and social			
relevant to dental care with emphasis	factors in the delivery and acceptance of			
on behavioural management.	dental care by patients.			
3.2 Intellectual Skills				
The dental graduate must be able to:				
3.2.1 Integrate basic biomedical,	Incorporate the basic, dental and medical			
behavioural and dental sciences with	sciences with the signs, physical, symptoms			
signs, symptoms and physical findings	and the outcome of the diseases.			
of the disease.				
3.2.2 Differentiate between normal and	Differentiate between the normal and			
abnormal features that are particularly	abnormal characteristics, which are of			
relevant to dental practice.	particular importance to the practice of			
	dentistry.			
3.2.3 Identify, prioritize and generate a	Identify and prioritize the list of potential			
list of potential problems patient's	patient's clinical problems.			
clinical.				
3.2.4 Analyze, interpret and integrate	Analyze clinical findings to make a			
collected diagnostic data to solve	diagnosis and treatment plan.			
clinical problems bases on current				

evidence.	
3.2.5 Design appropriate treatment plan	Formulate appropriate treatment plan for
for different dental problems.	common oral disorders.
3.2.6 Assess and evaluate the effects of	Assess drugs commonly used in oral
	medicine and their side effects and
medications taken by the patient on dental management	interactions.
dental management.	
3.2.7 Reason deductively in clinical	Identify and prioritize the list of potential patient's clinical problems.
problem solving. 3.3 Practical and clinical skills	patient's ennicar problems.
<i>The dental graduate must be able to:</i>	
3.3.1 Establish a comprehensive patient's	Obtain a history of the present complaint
history, perform clinical examination,	and medical history and maintain an
request and evaluate appropriate	accurate record of patient treatment.
investigations.	I
3.3.2 Review the body systems and consult	Determine the dental relevance of common
with other health care professionals,	disorders of the major organ systems.
when required.	<i>j - 6 j</i>
3.3.3 Detect abnormal and pathological	Recognise abnormalities in dental or
conditions, as well as etiological and/or	periodontal anatomical form that
risk factors that may contribute to	compromise periodontal health, function or
disease process.	aesthetics and identifying conditions, which
	require management.
3.3.4 Perform a range of clinical procedu	
dentistry, including:	
a) Applications of preventive procedures.	Provide oral hygiene instruction, topical
	fluoride therapy and fissure sealing.
b) Application of different local	Administer infiltration and block local
anesthetic techniques.	anaesthesia in the oral cavity for restorative
-	and surgical procedures.
c) Extraction of teeth and removal of	Treat and managing conditions requiring
roots when necessary.	minor surgical procedures of the hard and
·	soft tissues and to apply and/or prescribe
	appropriate pharmaceutical agents to support
	treatment.
d) Diagnosis of commonly encountered	Recognise the clinical features of oral
oral lesions.	mucosal diseases or disorders, including oral
	neoplasia and identify conditions that
	require management.
e) Performance of the necessary	Take radiographs of relevance to dental
radiographs.	practice, interpreting the images, including
	managing and avoiding the hazards of
	ionising radiation.
f) Performance of non-surgical	Undertake supra-gingival and sub-gingival
periodontal treatment and monitor	scaling and root debridement including stain
treatment outcomes.	removal and prophylaxis.
g) Restoration of carious and non-carious	Restore defective and/or missing teeth to
tooth defects with emphasis on basic	acceptable form, function and aesthetics.
tooth defects with emphasis on basic concepts of aesthetics.	-
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	uncomplicated multi-rooted teeth.
i) Rehabilitation of partially and	Design effective complete and partial
completely edentulous patients.	dentures.
j) Diagnosis and prevention of developing	Identify inappropriate oral habits that may
malocclusions.	exacerbate malocclusion and prevent their
	consequences through patient education and
	training and appliance therapy, as needed.
k) Basic pedodontic treatment.	Manage patients from different age groups,
	bearing in mind the different needs of young
	children, adolescents, adults and the ageing
	population/elderly.
3.3.5 Apply current infection control	Prevent cross-infection in clinical practice.
guidelines.	-
3.3.6 Control different levels of patient's	Identify abnormal and anxiety related
anxiety and apprehension in different	patient behaviour, and respond
age groups.	appropriately.
3.3.7 Manage dental and medical	Identify and manage dental emergencies
emergencies which may occur in dental	including those of pulpal, periodontal or
practice and perform basic life support	traumatic origin.
measures.	
3.3.8 Prescribe and monitor the effects of	Prescribe and monitor the effects of
appropriate pharmaceutical agents	appropriate pharmaceutical agents, including
taking into consideration drug and	the chemical control of dental plaque.
patient factors.	
3.4 General and transferable skills	
The graduate must be able to:	
3.4.1 Work in collaboration as a member	Work with other members of the dental
of an interdisciplinary team.	team.
of an interdisciplinary team.3.4.2Communicateeffectivelyin	team. Share information and professional
of an interdisciplinary team. 3.4.2 Communicate effectively in multicultural work environment using	team. Share information and professional knowledge with both the patient and other
of an interdisciplinary team.3.4.2Communicateeffectivelyin	team. Share information and professional knowledge with both the patient and other professionals, verbally and in writing,
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of an interdisciplinary team.3.4.2Communicate effectively in multicultural work environment using verbal and non-verbal means.3.4.3Recognize and effectively utilize all sources for continuing professional	team.Shareinformationandprofessionalknowledgewith both the patient and otherprofessionals,verballyandinwriting,includingbeingable tonegotiateand giveandreceiveconstructivecriticism.Useallresourceseffectivelytocontinuingprofessionaldevelopmentandlife-long
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3.4.8 Recognize the basic concepts of	
quality assurance and practice	practice.
management.	
3.4.9 Prioritize worked and manage	Take control of his/her workload and
personal stress in the frame work of	establish priorities to accomplish stress
proper performance and management.	management in the workplace.

4) Intended learning outcomes (ILOs) for programme:

a. Knowledge and understanding:

On graduation, the student should have knowledge of:

- 1. The fundamental principles in chemistry as the groundwork of medical (pharmacology) and dental (dental biomaterials) science.
- 2. The core courses in physics (properties of matter and heat) and biostatistics.
- 3. The principles of different types of tissues with fundamentals of gene expression and the study of physiology at the organ and systems level.
- 4. The structure and function of the molecules, cells, tissues, organs and systems of the human body relevant to the practice of dentistry.
- 5. The form and function of teeth and associated tissues in health and diseases.
- 6. The potential and limitations (risks and benefits) of dental technological procedures and the handling of dental materials in restoring the dentition.
- 7. The basic terminology related to dentistry.
- 8. The foundation of computer science.
- 9. The embryology of the face and oral cavity, the normal structure and function of the dental and paradental tissues.
- 10. The principles of pathogenic mechanisms and manifestations of human diseases, which are important in dentistry.
- 11. The concepts of normal body metabolism and metabolic basis of diseases.
- 12. The interdependence between the various systems of the human body.
- 13. The complex interactions between oral health, nutrition, general health, drugs and diseases that can have an impact on dental care and disease.
- 14. The science of dental biomaterials, including their limitations and the environmental issues relevant to their use.
- 15. The scientific principles of sterilisation, disinfection and antisepsis to prevent crossinfection in clinical practice.
- 16. Disease processes such as infection, inflammation, disorders of the immune system, degeneration, neoplasia, metabolic disturbances and genetic disorders.
- 17. The design and laboratory procedures used in the production of crowns and bridges.
- 18. The design and choice of materials used in the production of partial and complete dentures, along with knowledge of laboratory procedures.
- 19. The pharmacological properties of drugs used in dental practice including their interactions and side effects.
- 20. The main medical disorders and aspects of general medicine and surgery that may impinge on dental treatment.
- 21. The pathogenesis of common oral medical disorders and their treatment.
- 22. The diagnosis of oral cancer and the principles of tumour management.
- 23. The principles of orthodontic treatment (preventive, interceptive and corrective) and the limitations of orthodontic treatment.
- 24. Diseases and disorders of the oral cavity and associated structures, their causes and sequelae, so as to inform diagnosis, prevention and management.

- 25. The principles that underlie dental radiographic techniques.
- 26. The prevalence of oral disease in the adult and child populations.
- 27. Basic statistical concepts, methods and appreciate their relevance to dental research and dental practice.
- 28. The principles and importance of health promotion, health education and prevention in related to dental disease.
- 29. The importance of psychological and social factors in the delivery and acceptance of dental care by patients.
- 30. The basic principles of oral and maxillofacial surgery.
- 31. The medical emergencies and knowing how to deal with them.
- 32. Inhalational and intravenous conscious sedation techniques in clinical practice.
- 33. Basic principles of evaluation, diagnosis and treatment of pulpal and periradicular disease.
- 34. Basic principles in the management of dental emergencies arising from pulpal and periodontal disease, trauma and treatment failures.
- 35. The endodontic management of healthy, diseased or injured pulp and periradicular tissues in the primary and permanent dentitions.
- 36. The biocompatible, functional and aesthetic fixed dental prostheses.
- 37. Principles of evidence based decision making in dental practice.
- 38. Principles of dental practice management.
- 39. Dental ethics and medico-legal aspects in dental practice.

b. Intellectual skills

- 1. Incorporate the basic, dental and medical sciences with the signs and physical symptoms and the outcome of the diseases.
- 2. Analyse clinical findings to make a diagnosis and treatment plan.
- 3. Formulate appropriate treatment plan for common oral disorders.
- 4. Identify and prioritize the list of potential patient's clinical problem.
- 5. Differentiate between the normal and abnormal characteristics, which are of particular importance to the practice of dentistry.
- 6. Use contemporary information technology for communication, management of information and applications related to health care.
- 7. Develop strategies to predict, prevent and correct deficiencies in patient's oral hygiene regimens.
- 8. Recognise their clinical limitations and knowing when to refer appropriately.
- 9. Apply experience, scientific knowledge and methods to the management of problems of oral health care.
- 10. Educate patients concerning the aetiology and prevention of oral disease and encourage them to assume responsibility for their oral health.
- 11. Assess patient risk for caries and implementing caries prevention strategies.
- 12. Design the laboratory procedures used in the production of crowns, bridges, partial and complete dentures and make appropriate chair side adjustment to these restorations.
- 13. Evaluate preventive and restorative procedures that preserve tooth structure prevent hard tissue disease and promote soft tissue health.
- 14. Assess drugs commonly used in oral medicine and their side effects and interactions.

c. Professional and practical skills

1. Carry out laboratory steps resulting in satisfactory cavities of all classes, successful root treatment and single units of crowns.

- 2. Develop laboratory work-up of partial and complete dentures.
- 3. Obtain a history of the present complaint and medical history and maintain an accurate record of patient treatment and perform an extra-oral and intraoral examination appropriate to the patient, including assessment of vital signs and the recording of those findings.
- 4. Complete and chart a comprehensive dental, periodontal and mucosal examination and recognise the presence of systemic disease and knowing how the disease and its treatment, including present medication, affect the delivery of dental care.
- 5. Carry out an orthodontic assessment.
- 6. Determine when, how and where to refer a patient for sedation and/or general anaesthesia and in making other appropriate referrals based on clinical assessment.
- 7. Evaluate the periodontium, establishing a diagnosis and prognosis and formulating a treatment plan.
- 8. Manage acute oral infections, including patient referral and prescription of appropriate drugs
- 9. Design, insert and adjust space maintainers and active removal appliances to move a single tooth.
- 10. Provide the management of trauma in deciduous and permanent dentitions.
- 11. Determine the dental relevance of common disorders of the major organ systems.
- 12. Recognise abnormalities in dental or periodontal anatomical form that compromise periodontal health, function or aesthetics and identifying conditions, which require management.
- 13. Provide oral hygiene instruction, topical fluoride therapy and fissure sealing.
- 14. Administer infiltration and block anaesthesia in the oral cavity for restorative, extraction and surgical procedures.
- 15. Treat and managing conditions requiring minor surgical procedures of the hard and soft tissues and to apply and/or prescribe appropriate pharmaceutical agents to support treatment.
- 16. Recognise the clinical features of oral mucosal diseases or disorders, including oral neoplasia and identify conditions that require management.
- 17. Take radiographs of relevance to dental practice, interpreting the images, including managing and avoiding hazards of ionising radiation.
- 18. Undertake supra-gingival and sub-gingival scaling and root debridement including stain removal and prophylaxis.
- 19. Restore defective and/or missing teeth to acceptable form, function and aesthetics.
- 20. Perform endodontic treatment on single and uncomplicated multi-rooted teeth.
- 21. Design effective complete and partial dentures.
- 22. Identify inappropriate oral habits that may exacerbate malocclusion and prevent their consequences through patient education and training and appliance therapy, as needed.
- 23. Manage patients from different age groups, bearing in mind the different needs of young children, adolescents, adults and the ageing population/elderly.
- 24. Prevent cross-infection in clinical practice.
- 25. Identify abnormal and anxiety related patient behaviour and respond appropriately.
- 26. Identify and manage dental emergencies including those of pulpal, periodontal or traumatic origin.
- 27. Prescribe and monitor the effects of appropriate pharmaceutical agents, including the chemical control of dental plaque.

d. General and transferable skills

- 1. Establish a patient-dentist relationship that allows the effective delivery of dental treatment.
- 2. Identify patient expectations, desires and attitudes (needs and demands) when considering treatment planning and during treatment.
- 3. Work with other members of the dental team.
- 4. Share information and professional knowledge with both the patient and other professionals, verbally and in writing, including being able to negotiate, give and receive constructive criticism.
- 5. Use all resources effectively to continuing professional development and lifelong learning.
- 6. Displaying appropriate professional behaviour.
- 7. Improve the oral health of individuals, families and groups in the community.
- 8. Use contemporary information technology for communication, management of information and applications related to health care.
- 9. Take control of his/her workload and establish priorities to accomplish stress management in the workplace.
- 10. Recognize the quality assurance in dental practice.

e. Attitude

- 1. Maintain respect and confidence of patients through sincere and honest service and respect patient's cultural practice.
- 2. Demonstrate ethical relationship with staff.
- 3. Deliver care to patients with professionalism, self confidence and communication.
- 4. Be committed to lifelong learning in dental disciplines.
- 5. Introduce the concept of evidence based dentistry into his/her scientific knowledge and attitude.
- 6. Develop life skills and attitudes that will maximize his/her educational experiences as undergraduates.
- 7. Become reliable dental practitioners, committed to the health care delivery; secure in their ability to assess and accept their own strengths and weaknesses.

5) Curriculum Structure and Contents

- a. Bearing in mind that a study hour is made up of sixty minutes and the study week is made up of 6 days.
- b. Programme duration: 5 years plus one year internship
- c. Programme structure:
 - 1. First Stage: Pre-dental (Preparatory) (one year).
 - 2. Second Stage: Pre-clinical (two years).
 - 3. Third Stage: Clinical (two years)
 - 4. Fourth Stage: Internship (one year)
- d. No. of hours per week:
 - 1. Lectures: 15 22 hours per week.
 - 2. Lab, clinical/small group teaching: 15 30 hours per week.
 - 3. Total: 36 48 Hours per week.

6) Courses contributing to the programme

3.1 Year programme:

a. Compulsory Pre-dental Year (Pre-dental Stage)

Code No.	Course Title	No. of hou	rs/week	Total Hours
		Lectures	Practical	
Che. Pre	Chemistry	3	2	4
Zoo. Pre	Zoology	4	2	5
Phs. Pre	Physics	2	2	3
Sta. Pre	Statistics	2	2	3
E.L. Pre	English language	2		2
M.T. Pre	Medical Terminology	2	2	3
A.L. Pre	Arabic language	2		2

First Year (Pre-clinical Stage)

Code No.	Course Title	No. of hours/week		Total Hours
		Lectures	Practical	
D.A. I	Dental Anatomy	2	2	3
D.M. I	Dental Materials	2	2	3
B.C. I	Biochemistry	4	2	5
G.A. I	General Anatomy	4	2	5
G.H. I	General Histology	2	2	3
Phy. I	physiology	4	2	5

Second Year (Pre-clinical Stage)

Code No.	Course Title	No. of hours/week		Total Hours
		Lectures	Practical	
C.D. II	Conservative Dentistry	3	4	5
F.P. II	Fixed Prosthodontics	2	4	4
R.P. II	Removable Prosthodontics	2	4	4
O.H. II	Oral Histology	2	2	3
G.P. II	General Pathology	2	2	3
M.B. II	Microbiology	2	2	3
Pha. II	Pharmacology	2	2	3

Code No.	Course Title	No. of hou	rs/week	Total Hours
		Lectures	Practical	
O.M.F.S.	Oral & Maxillofacial	2	2	3
	Surgery			
O.M.D.R.	Oral Medicine, Oral	2	2	3
	Diagnosis & Radiology			
P.C.D. III	Preventive & Community	1	2	2
	Dentistry			
C.D. &	Conservative Dentistry &	2	2	3
En. III	Endodontics			
Or. III	Orthodontics	1	2	2
R.P. III	Removable Prosthodontics	1	2	2
F.P. III	Fixed Prosthodontics	1	2	2
P.E. III	Periodontology	1	2	2
Pa. III	Paedodontics	1	2	2
G.S. III	General Surgery	2	2	3
G.M. III	General Medicine	2	2	3
O.P. III	Oral Pathology	2	2	3

Third Year (Clinical Stage)

Fourth Year (Clinical Stage)

Code No.	Course Title	No. of hours/week		Total Hours
		Lectures	Practical	
O.M.F.S.	Oral & maxillofacial	2	4	4
IV	surgery			
O.M.D.R.	Oral Medicine, Oral	2	2	3
IV	Diagnosis & Radiology			
P.C.D. IV	Preventive & Community	1	2	2
	Dentistry			
C.D. &	Conservative Dentistry &	1	4	3
En. IV	Endodontics			
Or. IV	Orthodontics	1	2	2
R.P. IV	Removable Prosthodontic	2	4	4
F.P. IV	Fixed Prosthodontics	1	2	2
P.E. IV	Periodontology	1	4	3
Pa. IV	Paedodontics	1	4	3

Internship year

interniship jeur	
Course Title	Duration
Oral & maxillofacial surgery	One and half month
Oral Medicine, Oral Diagnosis & Radiology	One and half month
Preventive & Community Dentistry	One month only
Conservative Dentistry & Endodontics	One and half month
Orthodontics	One month only
Removable Prosthodontic	One and half month
Fixed Prosthodontics	One and half month
Periodontology	One and half month
Paedodontics	One month only

Programme –Course ILO Matrix (see appendix)

- 7) Programme admission requirements.
- 8) **Registration:** See internal regulation of studies and examination.
- **9) Regulation for progression and programme completion:** See internal regulation of studies and examination.
- 10) We certify that all the information required to deliver this programme is contained in the above specification and will be implemented

Title	Signature
Department of Study and Examination	
Faculty of Dentistry, University of Tripoli	
Dean of Faculty of Dentistry	
University of Tripoli	