

## **Bachelor of Dental Surgery BDS (Honors)**

### **Introduction**

Al-Madain College for Medical Sciences and Technology was established in 2016 and started with medical and health sciences programmes. In collaboration with expertise in the medical education this curriculum was written for the dentistry programme for the acquisition of the bachelor of dental surgery (BDS) considering the health service needs, the community needs and the Ministry of Higher Education mission for ensuring a possible higher education for all the population. The curriculum was set with regard to the National and International standards. The degree will be granted by the Ministry of Higher Education & Research as a recognized medical qualification to be accepted and accredited by Sudan Medical Council.

### **Mission**

To provide a quality dental education up to the international standards that contribute towards the progress and development of national healthcare and high level of dental community service through the training of skilled, competent, professionalism ethical and caring dental professionals.

### **Vision**

To excel an internationally recognized program for dental education through the utilization of modern technology, an evidence-based curriculum and contemporary techniques that create skilled and competent dental professionals who value lifelong learning and fulfill patient expectations.

## Educational Outcomes

**The student must acquire the following information & competencies before graduation**

1. Mastering of scientific foundation of the basic science and basic medical sciences.
2. The required knowledge and attitude with respect to disease prevention health promotion and rehabilitation.
3. Development of a good preclinical skill for safe dental clinical practice.
4. Knowledge of the basic dental sciences including dental material, dental biology, dental morphology, dental pathology etc.
5. Knowledge of clinical dental sciences including, conservative dentistry, prosthodontics, orthodontics, oral surgery, pediatric dentistry, periodontics oral medicine, and oral radiology.
6. Promotion of clinical dental skills with respect to the provision of diagnosis, dental treatment, and laboratory procedures.
7. Promotion of clinical reasoning and problem solving abilities through the practicing of problem-based learning which stimulates new thinking in addressing solutions to clinical problems.
8. Promotion of scientific thinking and ability to be engaged in dental research, evidence-based dentistry and community development, through the use of electives research projects in the area of community health problems.

9. Enhancement of knowledge and attitudes concerning dental ethics relevant to the practice of dentistry.
10. Development of communication skills acquired through training in information and communication technology.

## **Duration**

The BDS course comprises five years, followed by compulsory rotator internship of one year. The course follows semester system, each semester consisting of at least 15 weeks. The BDS course is divided into three phases, scientific foundation phase, pre-clinical, and clinical phase, during which the following subjects will be introduced.

<b>First Year</b>							
<b>Semester 1</b>				<b>Semester 2</b>			
<b>No</b>	<b>Code</b>	<b>Title</b>	<b>Credit hours</b>	<b>No</b>	<b>Code</b>	<b>Title</b>	<b>Credit hours</b>
D0111	Cell Bio.	Cell Biology & Human Biology	3	D 0121	Morph.	Dental Morphology	3
D0 112	Chem.	Chemistry	3	D 0122	Anat.	Anatomy I ( General Anatomy (Gross, &Histology)	3
D0 113	Phy.	Physics & Math	3	D0 123	Bio. I	Biochemistry1	3
D0 114	Eng.	English Language	2	D0 124	Eng.	English Language	2
D0 115	Comp.	Computer Science	2	D0 125	Comp.	Computer Applications	2
D 0116	Sud. Cul.	Sudan culture	2	D 0126	Physio. I	Physiology I	3
D0117	Ar.	Arabic L	2	D 0127	Ar.	Arabic L	2
D 0118	Isl. St.	Islamic studies	2	D0 128	Isl. St.	Islamic studies	2
		<b>Total</b>	<b>19</b>	<b>Total</b>			<b>20</b>

<b>Second Year</b>							
<b>Semester 3</b>				<b>Semester 4</b>			
<b>No</b>	<b>Code</b>	<b>Title</b>	<b>Credit hours</b>	<b>No</b>	<b>Code</b>	<b>Title</b>	<b>Credit hours</b>
D0 231	H&N. Anat.	Anatomy II	3	D 0245	D. Mat	Dental materials Science	3
D 0232	O. Bio	Oral Biology	3	D 0241	Neuro	Neuroscience	3
D0233	Physio.II	Physiology II	3	D 0243	Physio III	Physiology III	3
D 0234	Bio.II	Biochemistry II	3	D 0244	Bio.III	Biochemistry III	3
D0234	D. Gro	Development & Growth	3	D0 245	D. Path	Dental Pathology	3
D00235	Path I	General pathology	2	D00245	Path II	Systemic Pathology	3
D00236	Micro I	Microbiology I	3	D0246	Micro II	Microbiology II	3
		<b>Total</b>	<b>20</b>			<b>Total</b>	<b>21</b>

Third Year							
Semester 5				Semester 6			
No	code	Title	Credit hours	No.	Code	Title	Credit hours
D 0351	O. Path.I	Oral Pathology I	3	D 0361	O. Path.II	Oral Pathology II	3
D0356	D. Anat	Dental Anatomy	3	D 0366	Prof & Med. Eths.	Professionalism & Medical ethics	3
D0352	GMed.	General Medicine	3	D 0362	GMed.	General Medicine I & basic clinical skills	3
D 0353	Pre.Cons.	Preclin. Cons	4	D 0363	Clin. Cons	Clinical Conservation	3
D 0354	Pre.Prosth.	Preclin. Prosthodontic	3	D 0364	Clin. Proth.	Clinical Prosthodontic	3
D 0355	Pre. OMFS	Preclin.OMF surgery & Radiology	3	D0 365	Clin. PMFS	Clinical OMF Surgery	3
D 0356	Pharma	Pharmacology	3	D0 366	Preclin. Paedo	Preclinical Paedodontic	2
		<b>Total</b>	<b>22</b>			<b>Total</b>	<b>20</b>

Fourth Year							
Semester 7				Semester 8			
No	code	Title	Credit hours	No	Code	Title	Credit hours
D 0471	ODR	Oral & Dental Radiology	2	D0482	O.Med.	Oral medicine	2
D0473	GSurg. I	General Surgery I	2	D0483	GSurg.	General Surgery II	2
D0473	Com.Med	DPH Community dentistry	3	D0485	DPH	Dental Public health	2
D0475	GMed.	General Medicine II	2	D0486	OMFS	O&MF surgery	3
D0476	Cons.	Conservation & endodontics	3	D0485	Cons.	Conservation & endodontics	3
D0477	Perio	Periodontics	2	D0487	Perio	Periodontics	2
D0478	R.Prosth	Removable prosthodontics	2	D0488	R.Prosth	Removable prosthodontics	2
D0749	F. Prosth.	Fixed prosthodontics	2	D0489	F. Prosth.	Fixed prosthodontics	2
D 4710	Pedo.	Peadodontics	2	D4810	Pedo.	Paedodontics	2
D 4711	Ortho.	Orthodontics	2	D4811	Ortho.	Orthodontics	2
		<b>Total</b>	<b>22</b>			<b>Total</b>	<b>22</b>

<b>Fifth Year</b>							
<b>Semester 9</b>				<b>Semester 10</b>			
<b>No</b>	<b>code</b>	<b>Title</b>	<b>Credit hours</b>	<b>No</b>	<b>Code</b>	<b>Title</b>	<b>Credit hours</b>
D0591	OMFS	O&MF surgery	3	D 5101	CDC	Comprehensive Dental Care	12
D0592	Cons.	Conservative & endodontic	3	D 5102	Ad.D.P	Advanced Dental Practice	4
D0593	Perio	Periodontics	3	D 5103	Res. Proj.	Research project	4
D0594	R.Prosth	Removable prosthodontic	3				
D0595	F. Prosth.	Fixed prosthodontics	3				
D0596	Paedo.	Paedodontics	3				
D0597	Ortho.	Orthodontics	3				
		<b>Total</b>	<b>21</b>			<b>Total</b>	<b>20</b>