

## pharmacology

One of the most important medical sciences needed by doctors is concerned with the study of medicines and treatments used in dentistry and affecting the patient

**Theoretical:** Explains the commonly used types of medications that may affect the dentist's treatment plans and sometimes put the patient's life at risk. You need a broad understanding, focus and follow-up.

**Practical:** The theoretical explanation is repeated in the laboratory in the form of

seminars prepared and presented by students or an explanation of cases that are treated with theoretically explained drugs.

## Different Learning Methods in the Department of Dentistry

**A-** Auditory method: This method depends on communicating information in the form of sounds that are heard by the learner for analysis and storage.

**B-** Visual method: in which information is communicated by displaying color images, videos or any form of visual educational aids.

**C-** Reading method: It is one of the methods that depend on reading information to understand and store it.

**D.** Interdisciplinary professional education where dental students collaborate with other healthcare professionals, to promote a holistic approach to patient care.

## Different evaluation methods for students in the Department of Dentistry

Daily tests with multiple-choice questions for subjects that require practical skills.

**B-** Daily exams with practical questions.

**C-** Semester and final exams.

**D-** Setting grades for the assigned homework .

**H-** Grades of participation of questions competing for the subjects of study.

**G-** Daily evaluation of the student's work in scientific laboratories and educational clinics.

## Learning Outcomes for Dental Courses

Using health information technology in oral and dental health care effectively.

Apply appropriate professional, ethical and legal standards in the provision of patient care in accordance with health care rules and regulations.

Providing graduates with scientific knowledge and professional skills in the fields of oral and dental surgery, dental prosthesis, dental preservation, orthodontics, pediatric dentistry, periodontal pathology and surrounding tissues

Knowledge of the principles of oral and dental health and understanding of the development, prevention and treatment of related diseases

Health promotion and disease prevention to serve the community.

Integrating basic and medical sciences into healthcare practice.

Develop decision-making and problem-solving skills in healthcare.

Evaluate the state of oral and dental health and the medical condition of the patient, request the necessary diagnostic analyzes, and interpret the results of various analyzes to reach the appropriate diagnosis.

Prepare a care plan for the prevention and treatment of diseases taking into account the needs of the patient.

Demonstrate competence in performing procedures safely in all aspects of dentistry and prevent injuries arising from treatment.

Providing graduates with theoretical knowledge and laboratory and clinical skills that increase the effectiveness of diagnosis.

Preparing dental graduates and training them to become distinguished in various fields of dentistry.

## Lesson name and units

<i>Subject</i>	<i>1<sup>st</sup> Semester hours/week</i>		<i>2<sup>nd</sup> Semester hours/week</i>		<i>Units</i>	<i>Code</i>
	<i>Theory</i>	<i>Practical</i>	<i>Theory</i>	<i>Practical</i>		
<b>6. Pharmacology</b> علم الادويه	2	2	2	2	6	PC323

<b>1-Subject title</b>	<b>Pharmacology</b>	
<b>2-Number of credits</b>	Theory:4	Laboratory:2
<b>3-Number of contact hours</b>	Theory: 2h/wk.	Laboratory:2h/wk.
<b>4-Subject time</b>	Third Year	

<b>Number</b>	<b>Title of lecture</b>	<b>Hours</b>
<b>1</b>	Pharmacology: General concepts	<b>2</b>
<b>2</b>	Pharmacokinetics and pharmacodynamics	<b>2</b>
<b>3</b>	Autonomic nervous system from a pharmacological perspective (including cholinergic agonist and antagonist)	<b>2</b>
<b>4</b>	Adrenergic agonists	<b>2</b>
<b>5</b>	Adrenergic antagonists	<b>1</b>
<b>6</b>	Antihypertensive drugs	<b>2</b>
<b>7</b>	Management of angina and heart failure	<b>2</b>
<b>8</b>	Management of arrhythmia	<b>2</b>
<b>9</b>	Anticoagulants, antiplatelet and anti-hyperlipidemic drugs	<b>2</b>
<b>10</b>	Local Hemostatic Agents in Dentistry	<b>1</b>
<b>11</b>	Introduction the pharmacology of CNS drugs, sedative, hypnotics and antiseizures drugs	<b>2</b>
<b>12</b>	Antipsychotic and antidepressant drugs	<b>2</b>
<b>13</b>	Local and general anaesthetics	<b>2</b>
<b>14</b>	Drug of abuse and opioid analgesics	<b>2</b>
<b>15</b>	Managements of diabetes mellitus	<b>2</b>
<b>16</b>	Drugs affecting GIT	<b>2</b>
<b>17</b>	(Drugs acting on respiratory system (antihistamines and corticosteroids	<b>3</b>
<b>18</b>	Non-steroidal anti-inflammatory drugs (NSAIDs) part 1	<b>2</b>
<b>19</b>	Non-steroidal anti-inflammatory drugs (NSAIDs) part2 and Steroids in Dentistry	<b>2</b>
<b>20</b>	(Chemotherapeutic drugs (Principles of antimicrobial therapy	<b>2</b>
<b>21</b>	(Cell wall inhibitors (part 1	<b>2</b>
<b>22</b>	(Cell wall inhibitors (part 2	<b>2</b>
<b>23</b>	Protein synthesis inhibitors	<b>2</b>
<b>24</b>	Quinolones, Folic acid antagonists and antimycobacterial	<b>3</b>

25	Antifungal, antiviral and antiprotozoal drugs	2
26	Sex hormone and contraceptive	2
27	Thyroid hormones and anti-thyroid drugs	2
28	Anticancer drugs	1
29	Dental Pharmacology: drugs and chemicals used in dental clini	1
30	Anticaries and drugs used in prevention of dental plaque	2
31	Essential emergency drugs in dental clinic	2

### *Laboratory sessions*

Lab number	Study unit title	Hours
1	Introduction and animal (e.g rabbits) handling	2
2	Routes of drug administration (Part 1)	2
3	Routes of drug administration (Part 2)	2
4	Clinical parameters in drug pharmacokinetics (Part 1)	2
5	Clinical parameters in drug pharmacokinetics (Part 2)	2
6	Demonstration of common dosage forms used in clinical practice (Part 1)	2
7	Demonstration of common dosage forms used in dentistry (Part 2)	2
8	Cholinergic agonists and antagonists (Physostigmine Vs Curare)	2
9	Effects of Drugs on Human Blood Pressure (Part 1-B-Blockers)	2
10	Effects of Drugs on Human Blood Pressure (Part 2) (Nitrates Effect on Human Volunteers)	2
11	Effects of Drugs on The Arterial Blood Pressure Of Human (Part-3)	2
12	The effects of drugs and light on human eyes	2
13	The effects of drugs and light on human eyes	2
14	Effects of parasympathomimetic drugs on glandular secretions	2
15	The response of human skin to histamine and adrenaline	2
16	The response of human skin to histamine and adrenaline	2
17	Evaluation of Analgesics	2
18	Evaluation of analgesics (Opioids)	2
19	Evaluation of Anti-inflammatory Drugs	2
20	Evaluation of Anti-inflammatory Drugs	2
21	Local Anaesthesia	2
22	General Anaesthesia	2
23	General Anaesthesia	2
24	Prescription writing	2
25	Prescription writing	2
26	Prescription writing	2
27	Oral conditions and their treatment	2
28	Orodental preparation (part 1)	2
29	Orodental preparation (Part 2)	2
30	Dental health and endocarditis prevention	2
<b>Total</b>		<b>60</b>