

## Planning and Quality Assurance Affairs

Form (A)

### Course Specifications

#### General Information

Course name	Pharmacology I
Course number	DENT3219
Faculty	
Department	
Course type	College Needs
Course level	3
Credit hours (theoretical)	2
Credit hours (practical)	0
Course Prerequisites	

#### Course Objectives

1 - To Determine & select the most appropriate drug therapy
2 - ? To Use pharmacokinetic information to individualize dosage regimen
3 - To Identify the clinical situation of each drug
4 - To List the most common significant drugs side effects
5 - To Develop a plan & regimens for the management

#### Course Contents

1 - Introduction & general principles of pharmacology
2 - Basic principles of Pharmacokinetics
3 - Drug absorption , routes of drug administration, distribution, metabolism & excretion
4 - Factors modifying or affecting dosage , action of drugs
5 - Pharmacodynamics & drug-receptor interactions
6 - Introduction to autonomic nervous system
7 - Cholinergic agonists
8 - Cholinergic antagonists
9 - Adrenergic agonists
10 - Anticoagulant drugs
11 - General anesthetics
12 - Local anesthetics

#### Teaching and Learning Methods

1 - Lectures
2 - Power Point
3 - Discussion
4 - Assignments

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**Students Assessment**

<u>Assessment Method</u>	<u>TIME</u>	<u>MARKS</u>
Mid- term exam and assignments		40%
Final Exam		60%

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**Books and References**

Essential books	Textbook of pharmacology for Dental & allied Health Sciences, Padamaja Udaykumar, Jaypee Brothers, 2008 Essentials of pharmacology for Dentistry, KD Tripathi, Jaypee Brothers, 2010 Pharmacology ReCap (ver2.0) for Bachelor of Dentistry Students, Dr. J. G. Buch, Elsevir, 2011
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## Knowledge and Skills Matrix

Main Course Contents	Study Week	Knowledge and Understanding	Intellectual Skills	Professional Skills	General Skill
Introduction & general principles of pharmacology	1	Understand general principles of pharmacology			
Basic principles of Pharmacokinetics	2	understand Pharmacokinetics			
Drug absorption , routes of drug administration, distribution, metabolism & excretion	3	understand Drug absorption , routes of drug administration, distribution, metabolism & excretion	realize the importance of Drug absorption , routes of drug administration, distribution, metabolism & excretion		
Factors modifying or affecting dosage , action of drugs	4	understand Factors modifying or affecting dosage , action of drugs	realize the importance of Factors modifying or affecting dosage , action of drugs		
Pharmacodynamics & drug-receptor interactions	5	understand Pharmacodynamics & drug-receptor interactions			
Introduction to autonomic nervous system	6	understand autonomic nervous system	realize the importance of autonomic nervous system		
Cholinergic agonists	7+8	understand Cholinergic agonists	realize the importance of Cholinergic agonists		
Adrenergic agonists	9+10	understand Adrenergic agonists	realize Adrenergic agonists		
Anticoagulant drugs	11	understand Anticoagulant drugs	realize the importance of Anticoagulant drugs		
General anesthetics	12				
Local anesthetics	13				