

Course Syllabus typical Format (CSTF)

First: Course Information

1	College: Pharmacy	2	Department: Pharmacy Practice
3	Academic Semester: Fifth Year - First Semester	4	Academic year: 1443H
5	Course Name: Advanced Therapeutics 1	6	Course code and number: PDPP0533
7	Number of credit hours: 5 Hours (...3... theoretical/lecture, ...2... training/tutorial)		
8	Course requirement in program: [<input checked="" type="checkbox"/>] Required (obligatory) [<input type="checkbox"/>] Optional (Elective)		
9	Course type: [<input type="checkbox"/>] University Requirement [<input checked="" type="checkbox"/>] College Requirement [<input type="checkbox"/>] Departmental Requirement		
10	Pre-requisite (code and number) (if applicable): -		

Second: Instructor Information

1	Instructor's name: Dr. Palanisamy Amirthalingam		
2	Sections of the course that I teach – All		
3	Office phone number: 0144273022-3915	4	Mobile number (optional): 0550479314
5	Office location and number: First Floor/ Department of Pharmacy Practice		
6	Office hours: Sunday (1:00pm - 4:00 pm)		
7	Website: www.ut.edu.sa/web/u58316		
8	E-mail: pchettiar@ut.edu.sa		

1	Instructor's name: Dr. Hoda Salem & Dr. Hanan		
2	Sections of the course that I teach – Lecture 3 to 13		
3	Office phone number: 0144273022-4045	4	Mobile number (optional): -
5	Office location and number: Second Floor/ Department of Pharmacy Practice		
6	Office hours: Monday (10 am – 01 pm)		
7	Website: https://www.ut.edu.sa/en/web/u58445		
8	E-mail: hsalem@ut.edu.sa		

1	Instructor's name: Dr. Hanan Alsharif		
2	Sections of the course that I teach – Lecture 1 & 2		
3	Office phone number: 0144273022	4	Mobile number (optional): -
5	Office location and number: Second Floor/ Department of Pharmacy Practice		
6	Office hours: Monday (10 am – 01 pm)		
7	Website:		
8	E-mail: halsharif@ut.edu.sa		

Third: Lecture and lab timetables

Male

Section	Days	Time	Place (Building/Room)
Division 2 (1558 & 1559)	Tuesday	08:00am – 11:00am	Faculty of Pharmacy/ 1st floor/ Lecture room 01-03-1-14
Division 1 (1561 & 1562)	Wednesday	01:00pm – 05:00pm	Hospital Training and Faculty of Pharmacy/ 1st floor/ Lecture room 01-03-1-14

Female

Section	Days	Time	Place (Building/Room)
Division 1 (134, 136 & 136)	Tuesday	09:00am – 12:00pm	Faculty of Pharmacy/ 2 nd floor/ Lecture room 01-03-1-14
Division 2 (138, 139 & 140)	Thursday	08:00am – 12:00pm	Hospital Training and Faculty of Pharmacy/ 2nd floor/ Lecture room 01-03-1-14

Fourth: Course description

Course description as found in the University Catalogue in English

This course covers infectious diseases, neurological disorders and psychiatric disorders.

General Objectives and Teaching Strategies

General course objectives (designate the sections and goals that are related to the course content)	Teaching strategies and instructional aids
Knowledge and Understanding <ul style="list-style-type: none">• Demonstrate a comprehensive knowledge of pathophysiology, clinical presentations, management and evaluation of therapeutic outcomes for infectious diseases, neurology and psychiatric disorders.	<ul style="list-style-type: none">• Lectures
Skills: <ul style="list-style-type: none">• Interpret pharmacotherapy according to the professional guidelines for the corresponding disease state.• Communicate clearly and effectively with healthcare professionals, about the background and management plan for the concerned cases.	<ul style="list-style-type: none">• Case studies• Oral case presentations.
Values: <ul style="list-style-type: none">• Plan independent thinking and adoption to changes concerning the updated guidelines for the given cases.	<ul style="list-style-type: none">• Assignment/presentations/Small group activity.

Sixth: Course or Curriculum units, subjects, specific objectives, and time schedule in the academic semester (first, second, or third semester (summer))
(Example)

Week number	Units	Instructional Objectives (Actions that prove the students adoption of specified behavior and achievement, learning outcomes, content)	Readings	Keywords		
	Unit Number	Unit/Chapter/Subject title		Reference Number	Pages	Key words
First	1	Course overview, Principles of Antimicrobial therapy & Pneumonia	<ol style="list-style-type: none"> 1. Principles of Antimicrobial therapy 2. Antimicrobial resistance 3. Antimicrobial stewardship 4. Classification and clinical presentation of pneumonia (CAP, HAP & VAP). 5. Management of pneumonia. 6. COVID-19 and Pneumonia 7. Evaluation of Therapeutic outcomes 	1.1 1.2 1.3 1.4	410-417 129-158 72-83 569-582	Antimicrobial, Community, Hospital
Second	2	Tuberculosis	<ol style="list-style-type: none"> 1. Pathophysiology and clinical presentation 2. Treatment 3. Evaluation of Therapeutic outcome and patient monitoring 	1.1	476-489	Infection, Isoniazid, Rifampicin
Third	3	Endocarditis	<ol style="list-style-type: none"> 1. Pathophysiology and clinical presentation 2. Treatment 3. Evaluation of Therapeutic outcome and patient monitoring 	1.1	333-346	Infection, Vancomycin, Vegetation
Fourth	4	Viral Hepatitis, Intra-abdominal infections & Infectious diarrhea	<ol style="list-style-type: none"> 1. Treatment and prevention of hepatitis A, B and C virus. 2. Intra-abdominal infections 3. Gastrointestinal infections 4. Clostridium difficile 	1.1	213-220, 361-367 394-404	Hepatitis, Infections, Diarrhea
Fifth	5	CNS infections & Upper respiratory tract infections (otitis media)	<ol style="list-style-type: none"> 1. Clinical presentation. 2. Treatment 	1.1	323-332 418-420	Meningitis, Penicillin, Complications

Sixth	6	Alzheimer's disease	<ol style="list-style-type: none"> 1. Pathophysiology, Clinical presentation and Diagnosis. 2. Treatment. 3. Non- Pharmacologic therapy 4. Pharmacotherapy of cognitive and non-cognitive symptoms. 5. Evaluation of Therapeutic outcome and patient monitoring. 	1.1	511-517	Alzheimer's, β-Amyloid, Neurotransmitter
Seventh	7	Bipolar disorder	<ol style="list-style-type: none"> 1. Pathophysiology, Clinical presentation and Diagnosis. 2. Treatment. <ul style="list-style-type: none"> • General Approach • Non-Pharmacological and Pharmacological 3. Evaluation of Therapeutic outcome and patient monitoring. 	1.1	694-711	Depression, Mania, Hypomania
Tenth	8	Major depressive disorder	<ol style="list-style-type: none"> 1. Pathophysiology, Clinical presentation and Diagnosis. 2. Treatment. <ul style="list-style-type: none"> • General Approach • Non-Pharmacological and Pharmacological • Special populations 3. Evaluation of Therapeutic outcome and patient monitoring. 	1.1	712-730	Depression, Dopamine, Nor- epinephrine
Eleventh	9	Schizophrenia	<ol style="list-style-type: none"> 1. Pathophysiology, Clinical presentation and Diagnosis. 2. Treatment. <ul style="list-style-type: none"> • General Approach • Initial, stabilization and maintenance • Management of treatment resistant schizophrenia. 3. Evaluation of Therapeutic outcome and patient monitoring. 	1.1	731-746	Glutamine, Haloperidol, Serotonin

Twelfth	10	Anxiety disorder	<ol style="list-style-type: none"> 1. Pathophysiology, Clinical presentation and Diagnosis. 2. Treatment <ul style="list-style-type: none"> • Generalized Anxiety Disorder • Panic Disorder • Social Anxiety Disorder 	1.1	673-693	Anxiety, Panic, Social
Thirteenth	11	Epilepsy & Status epilepticus	<ol style="list-style-type: none"> 1. Treatment. 2. Special consideration in female patient. 3. Pharmacokinetics and special populations. 4. The role of serum concentration monitoring. 5. Evaluation of Therapeutic outcomes. 	1.1	518-542 587-598	Epilepsy, Seizure, epilepticus
Fifteenth	12	Parkinsonism	<ol style="list-style-type: none"> 1. Treatment. 2. Stepwise approach to management of drug-induced hallucinations and psychosis. 3. Dosing and monitoring the drugs. 	1.1	578-586	Carbidopa, Levodopa, Parkinsonism
Sixteenth	13	Headache – Migraine & Tension type; Pain management	<ol style="list-style-type: none"> 1. Pathophysiology 2. Clinical presentation and treatment 	1.1	543-577	Headache, Migraine, tension

Seventh: Assessment and evaluation plan

Assessment tools	Date and duration (day/date/ time)	Subject matter covered in the exam	Type of questions	Grades out of 100	Guidelines and instructions
Quiz	19/9 23/9/2021	Lecture 1-3	Multiple choice questions	5 marks	Multitask exam measuring all kinds of the students talents with model answer from the lecture notes
Mid-term exam	19/10 - 31/10/2021	Lectures 1-7	Multiple choice questions	30 marks	Multitask exam measuring all kinds of the students talents with model answer from the lecture notes
Final exam	Starts from 26/12/2021	Lectures 1-13	Multiple choice questions	40 marks	Multitask exam measuring all kinds of the students talents with model answer from the lecture notes
Evaluation without exam	Description of performance required from student	Due date	Rubrics	Marks	Guidelines & instructions
	Student must prepare present FARM note for the given case.	29/8/2021 to 23/12/2021	Case study exam (FARM note) and Case presentation.	20 marks	Individual evaluation
	Student activity	29/8/2021 to 23/12/2021	Small group activity	5 marks	Students will be divided into groups. Each group will consist of 3 students will collaborate and participate.

Eighth: Readings and further References

1	Main Reference (Textbook) (correct citation in accordance to APA or other citation standards specific to discipline) From where student can get the textbook? <ol style="list-style-type: none">1. Pharmacotherapy handbook, by Barbara G. Wells, Joseph T. DiPiro, Terry L. Schwinghammer, Cecily V. DiPiro, Tenth edition, McGraw-Hill Companies.2. Davidson's Principle and Practice of Medicine.3. A Textbook of Clinical Pharmacy Practice by G.Parthasarathi.4. Clinical Pharmacy and Therapeutics, Roger and Walker, Elsevier.
Extra reading references and citations (books, internet cities, research papers)	
2	Principles of Antimicrobial stewardship by International federation of infection control.
3	Pharmacotherapy – Principles and practice, by Marie A. Chisholm burns, Mc Graw Hill companies.
4	Pharmacotherapy: a Pathophysiologic Approach, Dipiro et al., McGraw Hill.
5	Applied Therapeutics: The clinical Use of Drugs, Mary Anne Koda-Kimble, Lippincott Williams and Wilkins.
6	Pharmacotherapy Casebook: A Patient-Focused Approach, Schwinghammer TL, Koehler JM, McGraw-Hill.
7	Comprehensive Pharmacy Review, Lippincott Williams and Wilkins.
8	Textbook of Therapeutics: Drug and Disease Management, Eric T Herfindal, Lippincott Williams and Wilkins.

Ninth: The instructor's policy of dealing with students within the framework of the university laws, regulations, and guidelines (examples and prototypes).

1	Late attendance: Over 10 min delays will be considered absent.
2	Cheating and plagiarism: University rules will be applied.
3	Absences: University rules will be applied.
4	Late work policy: 5% of the activity mark will be reduced for each day delay.
5	Exiting during the lecture period: Allowed after permission.
6	Seating and student placement in the classrooms: Allowed any place in the lecture room.
7	Absence from an exam: University rules will be applied.
8	Mobile phone use in the classroom: The student will be considered absent.
9	Eating and drinking: Prohibited
10	Wearing uniform and apron in the class is mandatory