

## Course Syllabus typical Format (CSTF)

### First: Course Information

1	College: Pharmacy	2	Department: Pharmacy Practice
3	Academic Semester: Fourth Year - First Semester	4	Academic year: 1443 H
5	Course Name: Therapeutics I	6	Course code and number: PDPP0431
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): Pathophysiology-1 (PDMD0331) and Pathophysiology-2 (PDMD0332).		

### Second: Instructor Information

1	Instructor's name: Dr. Mostafa Abdelrahman Sayed Ali		
2	Sections of the course that I teach - All		
3	Office phone number: 0144273930	4	Mobile number (optional)
5	Office location and number: First Floor (01-03-1-06)		
6	Office hours: Wednesday, (9:00-11:00 am), and Thursday (10:00-12:00)		
7	Website: <a href="http://www.ut.edu.sa/">www.ut.edu.sa/</a>		
8	E-mail: <a href="mailto:ma-ali@ut.edu.sa">ma-ali@ut.edu.sa</a>		

1	Instructor's name: Dr. Kousalya Prabahar		
2	Sections of the course that I teach – All in Female section		
3	Office phone number: 0144273022-3925	4	Mobile number (optional): -
5	Office location and number: second Floor (Female campus)		
6	Office hours: Wednesday (09:00am-12:00pm )		
7	Website: www.ut.edu.sa/web/u58312		
8	E-mail: kgopal@ut.edu.sa		

### Third: Lecture and lab timetables

Section	Days	Time	Place (Building/Room)
Division 1	Sunday	08:00 – 11:00 am	Faculty of Pharmacy/ 1st floor/ Lecture room 001-03-0-15
Division 2	Monday	08:00 – 12:00 pm	Hospital training
Division 1	Sunday	09:00 – 12:00 pm	Faculty of Medicine – Female campus/ 1st floor 01-25-1-049
Division 2	Tuesday	08:00 – 12:00 pm	Hospital training

### Fourth: Course description

#### Course description as found in the University Catalogue in English

This course provides understanding of therapeutic concept in the management of disease states through both formal lectures and structured case analysis discussions. Topics include cardiovascular systems (e.g. hypertension, heart failure, coronary artery disease, myocardial infarction, arrhythmias, dyslipidemia, peripheral vascular disorders, venous thromboembolism) and renal disorders (e.g. fluids and electrolytes, acid-base disturbance, renal failure (acute, chronic/dialysis), anemia.)

### Fifth: General Objectives and Teaching Strategies

Knowledge domain	Teaching strategies and instructional aids
<ul style="list-style-type: none"> <li>Demonstrate the concepts and principles of medicines management of cardiovascular diseases and</li> </ul>	

<p>renal disorders.</p> <ul style="list-style-type: none"> <li>Describe the therapeutic plan, outcomes and monitoring parameters in healthcare practice settings (establish the goals of therapy, define the therapeutic endpoints and monitoring parameters)</li> <li>Demonstrate the role of pharmacists in aspects of pharmacy-care according to legal, ethical and professional standards of health promotion and treatment</li> </ul>	<ul style="list-style-type: none"> <li>Lectures</li> <li>Demonstration</li> <li>Group Discussion</li> <li>Patient-oriented Problem solving (POPS)</li> <li>Illustrative Videos</li> </ul>
<p><b>Skills</b></p> <ul style="list-style-type: none"> <li>Apply scientific knowledge and skills in patient history, patient chart interpretation, and monitoring individual drug therapy and toxicity and duration of therapy.</li> </ul>	<ul style="list-style-type: none"> <li>Review of patient profile in hospital and design therapeutic plan</li> <li>2. Case presentation in hospital</li> </ul>
<ul style="list-style-type: none"> <li>Plan effective time management schedules, independent thinking in different professional environment including working in hospitals and other health care settings.</li> </ul>	<ul style="list-style-type: none"> <li>Hospital training</li> <li>Case study and presentation</li> </ul>
<p><b>Values</b></p> <ul style="list-style-type: none"> <li>Communicate clearly and effectively with healthcare professionals, patients, caregivers, during hospital training and in case presentation.</li> </ul>	<ul style="list-style-type: none"> <li>Hospital training and case presentation</li> <li>Homework assignment</li> </ul>

**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 and Hypertension	1. Types (essential hypertension and secondary hypertension).	1.2 1.3	87-101	Essential, secondary,

			2. Management of hypertension. 3. Emergency and urgency hypertension	1.4	111-129 295-311	hypertension Hypertensive crisis
Second	2	Heart failure	1. Preload, afterload, ejection fraction. 2. Drug therapy for heart failure. 3. Non-pharmacological management of heart failure	1.2 1.3 1.4	33-62 82-97 333-353	Heart, drug, therapy
Third	3	Dyslipidemia	1. Definition and classification of Dyslipidemia. 2. Non-drug management. 3. Drug therapy management.	1.2 1.3 1.4	175-194 98-110 389-411	Dyslipidemia, drug, therapy
Fourth	4	Coronary artery disease I (Myocardial infarction)	1. Overview of drug and non-drug therapy. 2. Signs and symptoms and management of acute myocardial infarction.	1.1	17.1-17.24	Myocardial, infarction, symptoms, therapy
Fifth	5	Coronary artery disease II (acute coronary syndrome)	1. Formulate a monitoring plan for a patient with ST-segment elevation acute coronary syndrome. 2. Devise a pharmacotherapy treatment and monitoring plan for a patient with non-ST-segment elevation acute coronary syndrome	1.2 1.3 1.4	83-106 43-59 312-332	Coronary, heart, ST-segment
Sixth	6	Peripheral vascular disorders	1. Management of peripheral arterial disease, Reynaud's phenomenon and nocturnal muscle cramps.	1.1	14.1-14.4	Peripheral, artery, Reynaud's, nocturnal
Seventh	7	Venous Thromboembolism (VTE)	1. Management of deep vein thrombosis, pulmonary embolism. 2. Prevention of cardiogenic embolism.	1.1 1.4	15.1-15.33 376-388	Pulmonary, vein, embolism
Eighth	8	Midterm exams		-	-	-
Ninth	9	Arrhythmias	1. Definition and management of Arrhythmias. 2. Electrophysiology of heart. 3. Types of arrhythmias and its management.	1.2 1.3 1.4	107-132 60-74 354-375	Arrhythmias, heart, types
Tenth	10	Stroke (Ischemic, Hemorrhagic)	1. Types of stroke (Ischemic, Hemorrhagic, And Transient Ischemic Attack) 2. Complications	1.1 1.2	21.1-21.9 195-208,	Ischemic, Hemorrhagic, stroke

			3. Therapeutic management.		161-174	
				1.3	143-162	
Eleventh	11	Anemia Drug-induced hematologic disorders	1. Types of Anemia (iron deficiency, vitamin B12 deficiency, folic acid deficiency, chronic disease/inflammation) 2. Management of Anemia.	1.2 1.3 1.4	975-986 363-376 769-785	Iron deficiency, vitamin B12 deficiency, folic acid deficiency
Twelfth	12	Fluid and Electrolyte disorders Acid-base disorders	1. Electrolytes imbalance and its management. 2. Clinical uses of diuretics. 3. Acid-base physiology 4. Treatment for metabolic acidosis and alkalosis, respiratory acidosis and alkalosis.	1.1 1.2	11.1 – 11.29 403-418 10.1-10.12 419-430	Fluid, electrolytes, regulation, imbalance Acid, base, acidosis, alkalosis, disorders
Thirteen	13	Evaluation of renal function Acute Kidney Injury	1. Pathophysiology of Acute renal failure. (Prerenal, Intrinsic, & Postrenal) 2. Management of Acute renal failure.	1.3 1.4	849-874 255-294	Kidney, acute
Fourteen	14	Chronic Kidney Disease Dialysis and renal replacement therapies*	1. Pathophysiology of chronic renal failure. 2. Complications (Anemia, Bone & Mineral Disorders) 3. Management of chronic renal failure.	1.2 1.3 1.4	975-986 363-376 769-785	Kidney, chronic

**Seventh: Assessment and evaluation plan**

<b>Assessment tools</b>	<b>Date and duration (day/date/ time)</b>	<b>Subject matter covered in the exam</b>	<b>Type of questions</b>	<b>Grades out of 100</b>	<b>Guidelines and instructions</b>
Midterm exam	Eighth week 19-28/10/2021 (11/3/1443 H) (10.00 AM to 12.00 PM)	Lectures 1-6	MCQs, Short Answers	30 marks	Multitask exam measuring all kinds of the students talents with model answer from the lecture notes
Final exam	26/12/2021 (21/5/1443 H) (10.00 AM to 12.00 PM)	Lectures 1-12	MCQs, Short Answers and Essay.	40 marks	Multitask exam measuring all kinds of the students talents with model answer from the lecture notes
Other activities	Thirteenth Week 21/11/2021 (15/4/1443 H) (1.00 PM to 2.00 PM)	Lectures 1-12	MCQs, Quiz, and Assignment	10 marks	Multitask exam measuring all kinds of the students talents with model answer from the lecture notes
<b>Evaluation without exam</b>	<b>Description of performance required from student</b>	<b>Due date</b>	<b>Rubrics</b>	<b>Marks</b>	<b>Guidelines &amp; instructions</b>
	Tutorial Exam  Continuous evaluation during Case study discussion and presentation (Tutorial/Hospital Training)	Sixth week: 4-10/10/2021(3/3/1443 H)  (7/11 to 16/12/2021)	MCQ, fill in SOAP analysis)  Patient data Collection and Case study, Preparation and presentation of SOAP analysis	10 marks  10 Marks	<ul style="list-style-type: none"> <li>• Individual evaluation,</li> <li>• Students will be divided into 6 groups, each group will consist of 5 students will collaborate and participate.</li> <li>• Written and/or Oral presentation</li> <li>• Questionnaire based on submitted forms and SOAP presentation.</li> </ul>

## 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"> <li>1. Pharmacotherapy – Principles and practice, by Marie A. Chisholm burns, Mc Graw Hill companies</li> <li>2. Pharmacotherapy handbook, by Barbara G. Wells, Joseph T. DiPiro, Terry L. Schwinghammer, Cecily V. DiPiro, McGraw-Hill Companies.</li> <li>3. Applied Therapeutics: The clinical Use of Drugs, Mary Anne Koda-Kimble, Lippincott Williams and Wilkins,</li> </ol>
Extra reading references and citations (books, internet cities, research papers)	
2	Pharmacotherapy: a Pathophysiologic Approach, , Dipiro et al., McGraw Hill
3	Pharmacotherapy Casebook: A Patient-Focused Approach., Schwinghammer TL, Koehler JM, McGraw-Hill,
4	Comprehensive Pharmacy Review, Lippincott Williams and Wilkins
5	Textbook of Therapeutics: Drug and Disease Management, Eric T Herfindal, Lippincott Williams and Wilkins
6	Harrison's Principles of Internal Medicine, 18th Edition, Dan Longo, Anthony Fauci, Dennis Kasper, Stephen Hauser, J. Jameson, Joseph Loscalzo, McGraw-Hill Companies

## 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 15 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