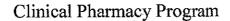
# Course Specifications

Applied Industrial Pharmacy

(PT E11)

Elective Course







### **Course Specification**

A-Basic Information	
Course code:	PTE11
Course name:	Applied industrial pharmacy
Credit hours of the course:	Lecture: 2 Practical: 0 Total: 2
Pre-requisite of the course:	
Department teaching the course:	Pharmaceutics
Program for which the course is given:	Clinical Pharmacy Program
Course Co-coordinator:	Dr. Doaa Helal
Head of the Department:	Prof Dr. Mona Hetta
Date of specifications approval:	12/1/2019

### **B-Professional Information**

### 1- Overall aims of the course:

By the end of this course the students should be able to:

To provide students with a comprehensive understanding of the essential concepts, regulations, and practices that govern the manufacturing of pharmaceutical products. This includes in-depth knowledge of **Good Manufacturing Practice (GMP)** regulations, **quality assurance** systems, and key processes such as **process validation**, **sampling techniques**, and **quality control** procedures. The course is designed to prepare students to apply their theoretical knowledge to real-world pharmaceutical manufacturing practices, ensuring the quality, safety, and compliance of drug products.

### 2-intended learning outcomes (ILO'S)

### a- knowledge and understanding

by the end of this course, the student should be able to:

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### Clinical Pharmacy Program

- A1.Explain the principles of Good Manufacturing Practices (GMP), including its role in ensuring the quality, safety, and efficacy of pharmaceutical products throughout the manufacturing process.
- A2. Understand the key components of a quality assurance system in pharmaceutical manufacturing, including quality control, documentation, audits, and compliance with industry standards.
- A3.Describe the importance of process validation in pharmaceutical manufacturing, and identify the different stages of validation (e.g., installation qualification, operational qualification, performance qualification) and their role in ensuring consistent product quality.

#### B. intellectual Skills

By the end of this course, the student should be able to:

- b1. Analyze manufacturing processes to identify potential risks to product quality, safety, and compliance, and propose solutions based on GMP principles and quality assurance practices.
- B2. Critically evaluate process validation protocols, including the design of validation studies and data analysis, to ensure that manufacturing processes are consistent, reproducible, and meet regulatory requirements.
- B3. Assess the quality and compliance of pharmaceutical products through the analysis of sampling data, using statistical methods to interpret test results and make informed decisions about product quality.

#### c-Professional and Practical Skill

By the end of this course, the student should be able to:

- c1.implement GMP practice effectively within a pharmaceutical manufacturing environment, ensuring compliance with all aspects of GMP, including cleanliness, equipment maintenance, personnel hygiene, and proper documentation.
- C2. Conduct process validation across different stages of pharmaceutical manufacturing, including installation qualification (IQ), operational qualification (OQ), and performance qualification (PQ), to verify that equipment, processes, and systems consistently produce products that meet predefined quality standards.
- C3. Perform appropriate sampling techniques for raw materials, in-process materials, and finished products to ensure that the pharmaceutical products meet the required specifications and quality standards. This includes using validated statistical methods to select and test representative samples.

#### **D-General Skills:**

By the end of this course, the student should be able to:

d1.adapt to changes in regulations and industry standards, staying updated on the latest GMP guidelines and regulatory requirements to ensure compliance in all processes.

D2. Solve problems by identifying issues in the manufacturing process, analyzing data, and proposing practical solutions to improve quality and compliance.





### Clinical Pharmacy Program

Transia	No. of hours			
Topic	Lecture	Practical	Total	
Introduction to Applied Industrial Pharmacy	2	0	2	
Good Manufacturing Practice (GMP)	2	0	2	
Quality Assurance in Pharmaceutical Manufacturing	2	0	2	
Process Validation	2	0	2	
Sampling Techniques for Quality Control	1	0	1	
Regulatory Guidelines and Compliance	1	0	1	
Quality Control in Pharmaceutical Manufacturing	1	0	1	
Review and Application of Concepts in Pharmaceutical Manufacturing	1	Ō	1	
Total	12	0	12	



# 4- Teaching and Learning Methods (lectures, open discussion, role plays...etc.):

- Lectures, using Power point presentation
- Open discussion







### a- Assessment Methods and Weighing

- Class participation: 10%

- Practical Exam --

- Oral Exam :--

Final Exam: 90%

### b-Assessment Schedule:

- Class participation: Quiz 1: Week 4-5

Quiz 2: Week 8-9

Other activities: throughout the semester

- Practical Exam:

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- Final Exam:

According to semester timetable

Course Coordinator: Dr. Doaa Helal

Head of Department: Prof. Dr. Mona Hetta

Date: 11/2/2019









# Course: Toxicology and forensic chemistry









### A. Basic Information

Program(s) on which the course is given:

Clinical

Department offering the course

Pharmacology and Toxicology department

Faculty offering the program

Faculty of Pharmacy, Fayoum University

Dept. responsible for teaching the course

Pharmacology and Toxicology department

Academic year / level

< th

Course title

Toxicology and forensic chemistry

Course code

PO904

Contact hours (credit hours)

3

Pre-requisite of the course:

Pharmacology-2

Course coordinator

Ass.Prof. Mona Moham

Major

Date of specification approval

Major or Minor element of program

09/2018

### B. Professional Information

### 1. Overall Aims of Course

The aims of the course are to understand the basic principles of toxicology and the different disciplines of toxicology and to understand the mechanism of toxicity, clinical presentation, diagnosis and medications indicated and contraindicated in the treatment of toxicity of common drug and chemical groups. In addition the course aims to gain knowledge regarding the supportive measures, therapeutic interventions, specific antidotes as general guidelines of treatment modalities. Furthermore gain general knowledge regarding forensic chemistry.

### 2. Intended Learning Outcomes of Course (ILOs)

### a- Knowledge and Understanding:

By the end of this course, the students should be able to:

- a1. Identify the different sources of toxicity and the factors that can enhance the exposure hazards.
- a2. Discuss the possible risks of exposure to toxicants by environmental, occupational and clinical medicine.
- a3. Understand toxic profile of various drugs and other xenobiotics including sources, identification, symptoms and management.
- a4. Discuss the main guidelines of management of injuries and emergency medical problems.







#### b- Intellectual Skills

By the end of this course, the students should be able to:

- b1. Differentiate betweendifferent toxic agentsregarding their symptoms as well as their main lines of toxicity treatment.
- b2. Criticize different methods for the management of poisoning in individual cases of toxicity.

### c- Professional and Practical Skills

By the end of this course, the student should be able to:

- c1. Determine the toxicity profiles of different xenobiotics and detect poisons in biological specimens.
- c2. Expect the biological response to a specific dose of the drug.
- c3: Analyse the medical data of poisoned patients to recommend the most suitable management protocol in case scenarios.

#### c- General and Transferable Skills

By the end of the course, the student should be able to:

- d1. Communicate properly with professor and lab technicians.
- d2: Plan and implement efficient and effective modes of working to manage patient toxicity through group discussions and participation in laboratory sessions.
- d3: Work coherently and successfully as a part of a team.
- d4: Apply ethical guidelines in her/his professional career.

### 3. Contents

Teaching week	TOPIC	lecture hours	No. of Practical hours	Total
1	General principles of toxicity	enting of the second of the se	8	14
2	Toxicity of CNS depressants & stimulants	4		4
3	Toxicity of anticholinergies & pesticides	4	,	4
4	Toxicity of heavy metals	2		2







·	Total no of hours	24	12	36
7	Forensic chemistry	2	4	6
6	Teratogenicity and carcinogenicity	4		4
5 	Food poisoning	2		2

- 4. Teaching and Learning Methods (Lectures, open discussions, role plays, etc)
  - 4.1- Interactive Lectures
  - 4.2- Laboratory classes
  - 4.3- Student activities (assignments, Seminars, Researches and Posters)
- 5. Student Assessment:
  - a- Assesment methods and weighing:
  - Class participation; 10% (assess knowledge and understanding and Intellectual Skills)
  - Practical exam: 25% (assess knowledge and understanding and Intellectual and practical Skills)
  - Oral exam: 15% (assess knowledge and understanding and Intellectual Skills)
  - Final exam: 50% (assess knowledge and understanding and Intellectual Skills).

b- Assessment Schedule

- Class participation: Quiz 1: Week 4-5

Quiz 2: Week 8-9

Other activities: throughout the semester

- Practical exam: Week 12

- Oral exam: according to semester timetable

- Final exam: according to semester timetable







### 6. List of References

Course Notes	Department notes prepared by instructors
Required Books	Illustrated handbook of toxicology
Recommended Books	Principles of Toxicology: Environmental and Industrial Applications, 3rd Edition
Periodicals	www.pubmed.com
Web Sites	https://www.biomedcentral.com/bmcpharmacol/









### **Clinical Pharmacy Program**

### **Course Specifications**

A-Basic Information	
Course code:	PP 907
Course name:	Clinical Pharmacokinetics
Credit hours of the course:	Lecture: 2 Practical:1 Total:3
Pre-requisite of the course:	Department of Pharmacy Practice
Department teaching the course:	Clinical Pharmacy Program
Program for which the course is given:	Dr. Azza Mancy
Course Co-ordinator:	Prof. Dr. Mona Hetta
Head of the Department:	Department of Pharmacy Practice
Date of specifications approval:	09/2018

### **B-Professional Information**

### 1-Overall aims of the course:

This course aims at teaching students to investigate, review and evaluate (qualitative and quantitative) the process of drug distribution, metabolism and elimination. Also it helps students be acquainted with therapeutic monitoring tools that are used in optimizing drug therapy

2-Intended learning outcomes (ILO's)

### a-Knowledge and Understanding:

By the end of this course, the student should be able to:

Page 1 of 4







### Faculty of Pharmacy

### **Clinical Pharmacy Program**

- a1-Know the stepwise process of pharmacokinetics and pharmacodynamics
- a2-Know how to modify dose and deal with patients with impaired renal and hepatic disorders
- a3-Understand how route of administration affects the pharmacokinetics of drug

### b-Intellectual Skills:

- By the end of this course, the student should be able to:
- b1-Solve the problem of dosing drugs of low therapeutic index based on close monitoring of their blood levels
- b2-Design individualized dosage regimens for patients with renal and hepatic disorders
- b3-Evaluate the clinical significance of obtained blood levels of different medications.

### c-Professional and Practical Skills:

- By the end of this course, the student should be able to:
- c1-Apply compartmental open models to design different dosage regimen of a given drug product
- c2-Select appropriate analysis methods and accurate sampling time for therapeutic drug monitoring for individualized medications
- c3-Estimate bioavailability and bioequivalence concepts

#### d-General Skills:

- By the end of this course, the student should be able to:
- d1-Have the power to Communicate properly with professors and colleagues
- d2-Show ability to work cooperatively in a team
- d3-Point out how to consider drug-drug or drug disease interactions
- d4-Develop self-motivation for continuous education

3-Course contents:	J. Andrews	The state of the s			
	12 ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (			No. of hours	
Topic	Market Co.	Lecturer	Lecture	Practical	Total
Overview of pharmacokinetics: compar models and therapeutic drug monitoring principles		Dr. Azza Mansy	2	1	3







### **Clinical Pharmacy Program**

bioavailability and bioequivalence		· · · · · · · · · · · · · · · · · · ·		
One compartment open models: IV bolus and IV infusion & multiple oral and IV dosing	Dr. Azza Mansy	2	1	3
Nonlinear pharmacokinetics	Dr. Azza Mansy	2	1	3
Dose individualization for Phenytoin	Dr. Azza Mansy	2	1	3
Dose individualization for patients with renal impairment (aminoglycosides)	Dr. Azza Mansy	2	1	3
Dose individualization for patients with hepatic impairment	Dr. Azza Mansy	2	1	3
Dose individualization for theophylline	Dr. Mawa Kamal	2	1	3
Dose individualization for digoxin	Dr. Mawa Kamal	2	1	3
Dose individualization for cyclosporine	Dr. Mawa Kamal	2	1	3
Dose individualization for Phenytoin	Dr. Mawa Kamal	2	1	3
Dose individualization for vancomycin	Dr. Mawa Kamal	2	1	3
Dose individualization for lidocaine	Dr. Mawa Kamal	2	1	3
		24	12	36

### 4-Teaching and Learning Methods (lectures, open discussion, role plays, ..etc):

- 1- Interactive lectures
- **2-** Case studies
- **3-** Self-learning assignments
- **4-** Class activity
  - Individual / Group presentation
  - Group discussion
- 5- Office hours

### 5- Student Assessment:

### a-Assessment Methods and Weighing:

- Class participation: 15 %
- Practical exam: 20 %







### **Clinical Pharmacy Program**

-	Oral exam: 15 %
-	Final exam: 50 %

### b-Assessment Schedule:

Class participation: Quiz 1: Week 4-5

Quiz 2: Week 8-9

Other activities: throughout the semester

Practical exam:

Week 13-14

Oral exam:

According to semester timetable

Final exam:

According to semester timetable

6-List of References:	
Course Notes	
Required Books	<ul> <li>a. Larry A. Bauer; Applied pharmacokinetics;</li> <li>2008; McGraw-Hill Medical.</li> <li>b. Michael E. Winter; Basic Clinical</li> <li>Pharmacokinetics 5<sup>th</sup> edition; 2009; Lippincott</li> <li>Williams &amp; Wikins</li> </ul>
Recommended Books	William j.Spruill, Robert A. Blouin, Jane M.Pruemer, William E. Wade Joseph T. Dipiro; concepts in clinical pharmacokinetics, 5 <sup>th</sup> edition; 2010; ASHP
Periodicals	
Web Sites	http://www.boomer.org/pkin/ http://www.boomer.org/c/p1 http://pharmacy.creighton.edu/pha443/pdf/

Course Coordinator: Dr. Azza Mancy

Head of Department: Prof. Dr. Mona Hetta

Date:

09/2018





### **Drug** interactions

4307







### **Course Specifications** (2017 - 2018)

### Department of Pharmacology and Toxicology

### A. Basic Information

Program(s) on which the course is given:

Clinical Pharmacy

Department offering the course

Department of Pharmacology and Toxicology,

Faculty of Pharmacy, Fayoum University

Faculty offering the program

Faculty of Pharmacy, Fayoum University

Dept. responsible for teaching the course

Department of Pharmacology and Toxicology,

Faculty of Pharmacy, Fayoum University

Academic year / leve

2017/2018 (Level 4)

Course title

Drug interactions

Course code

PO 803

Contact hours (credit hours)

Lecture: (2); Practical: (0), Total: 2

Pre-requisite of the course

Pharmacology-2

Course coordinator

Dr Rasha Abdelhady

Major or Minor element of program

Major

Date of specification approval

01/2018

### **B.** Professional Information

#### 1. Overall Aims of Course

(The course aim and intended learning outcomes are based on that mentioned in the program specifications, with more course-related specific details.)

The aim of the course is to ensure that the graduated pharmacist achieved the competencies of integration of the knowledge concerning the types, mechanisms, significance, as well as management of drug interaction. It also provides knowledge regarding drug interaction of specific classes of drugs such as antibiotics, antiarrhythmic, anticoagulants, anticonvulsants, barbiturates, beta-agonists and antagonists, calcium channel antagonists, sulfonamides. In addition to, drug-food interaction and drug-smoking interaction.

2. Intended Learning Outcomes of Course (ILOs)

a- Knowledge and Understanding:

By the end of the course, the students should be able to

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- a1. Recognize the main types of drug interactions
- a2. Describe the general mechanisms underlying drug interactions
- a3. Identify the most potential interactions for specific classes of drugs such as antiarrhythmic and anticonvulsants
- a4. Identify general measures for management/avoidance of potential adverse effects of drug interactions.
- a5. Identifying both drug-nutrient and drug-smoking interactions

### b- Intellectual Skills

- b1. Identify strategies for patient monitoring for identification of adverse drug interactions
- b2. Predict and apply drug design, therapeutic protocols for avoidance or management of drug interactions

By the end of this course, the student should be able to:

b3. Interpret specific symptoms and signs related to adverse effects of drug

### c- Professional and Practical Skills

- c1. Select the suitable medicines for multiple drugs treated patients.
- c2. Provide updated information to patients and healthcare professionals about the proper use of medicine and its probable clinically significant adverse interactions.

By the end of the course, the student should be able to

### d- General and Transferable Skills

By the end of the course, the student should be able to:

- d1. Improve critical thinking regarding problems and situations where decisions should be made on bases of limited information.
- d2. Developing and working in groups which increase the communication and knowledge regarding patient safety and outcome
- d3- Present clearly and effectively a scientific topic among groups.





### 3. Contents

Teaching week	TOPIC	No. of lecture hours	Assessment of ILOs
1	Types and mechanisms of drug	Total: 3(2+1)	
	interactions		a1, a2, b3, c1, d1, d2
<b>2</b>	Sulphonamides interactions	Total: 3(2+1)	a2, a3, a4, b2, b1, b3, c2, d1, d2
3	Ca channel blockers interactions	Total: 3(2+1)	a2, a3, a4, b2, b1, b3,
4	Drug-nutrient interactions	Potal: 3(2+1)	c2, d1, d2 a2, a3, a4, b2, b1, b3, c2, d1, d2
5	Drug-smoking interactions	Total: 3(2+1)	a2, a3, a4, b2, b1, b3, c2, d1, d2
6	Antibiotic interactions	Total: 3(2+1)	a2, a3, a4, b2, b1, b3, c2, d1, d2
7	Antiarrhythmic interactions	Total: 3(2+1)	a2, a3, a4, b2, b1, b3, c2, d1, d2
8	Barbiturates interactions	Total: 3(2+1)	a2, a3, a4, b2, b1, b3, c2, d1, d2
9	Anticonvulsant interactions	Total: 3(2+1)	a2, a3, a4, b2, b1, b3, c2, d1, d2
	Anticoagulants interactions		, 41,42
10	Beta agonists and antagonists interactions	Total: 3(2+1)	a2, a3, a4, b2, b1, b3, c2, d1, d2
Total no of		0	
hours 12	A Part of the Part	O and the state of	The state of the s
	FINAL	LXAM	A 8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

### 4. Teaching and Learning Methods

- 4.1- Lectures (board, data show)
- 4.2- Assignments
- 4.3- Class discussion

### 5. Student Assessment Methods

5.1. Written exams to assess knowledge and understanding as well as intellectual skills.





### **Course Specifications**

(2017 - 2018)

5.2. Oral exams to assess all types of skills and mainly general and transferrable skills practice.

#### 5.3. Practical exams

#### **Assessment Schedule**

Quiz 1	4 <sup>th</sup> or 5 <sup>th</sup> week
Quiz 2	8 <sup>th</sup> or 9 <sup>th</sup> week
Practical exam	10th week
Final exam	12 <sup>th</sup> week; according to semester schedule
Oral exam	12 <sup>th</sup> week; according to semester schedule

### Weighting of Assessments

	WHY AT	. ALIE
Periodical		13%
Practical		20%
Final exam		54%
Oral exam	等等等。 1955年 - 1955年 -	13%
Total	A State of the Sta	100%

### 6. List of References

6.1- Course Notes: Lecture notes in Drug interactions by Staff Members of the Department of Pharmacology & Toxicology.

### 6.2- Essential Books (Textbooks)

- 1. Brophy, G. (2007). Stockley's Drug Interactions Pocket Companion...
- 2. Trevor, A. J., Katzung, B. G., Masters, S. B., & Kruidering-Hall, M. (2010). Pharmacology examination & board review. New York: McGraw-Hill Medical.
- 3. Howland, R. D., & Mycek, M. J. (2006). 1-Lippincotts illustrated reviews: Pharmacology. Teaching Learning, 5, 5.
- 6.3- Periodicals: https://www.webmd.com/interaction-checker/default.htm. https://www.drugs.com.

https://www.medscape.com

\* 6.4- Web Sites: globalrbh.com lexicomp.org and www.ekb.eg

### Facilities required for teaching and learning

- 1. Lecture rooms with data show
- 2. Procurement of latest edition of the above-mentioned texts and others to update the education process

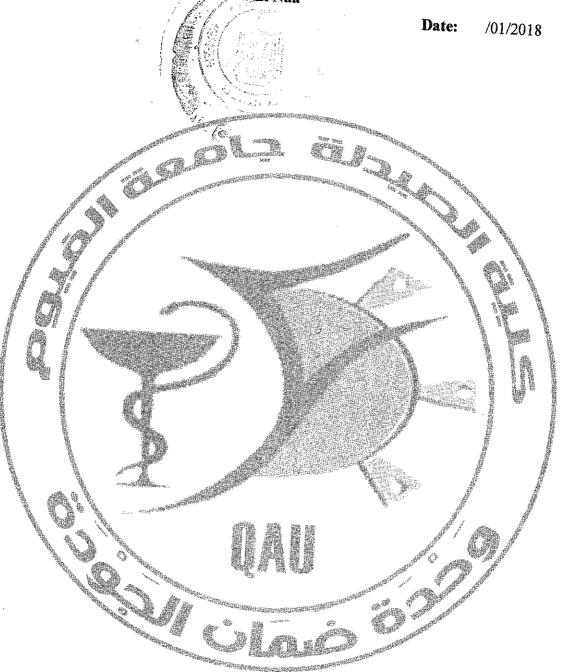




Course Specifications
(2017 – 2018)

Course Coordinator: Dr Rasha Abdelhady

Head of Department: Ass. Prof. Mona El Naa









### **Clinical Nutrition**

### PP 909

A. Basic Information

Course Title:	Clinical Nut	rition
Course Code:	PP 909	The state of the s
Program on which given:		Clinical program
Department offeri course:	ng the	Biochemistry
Academic year/ level:	1 <sup>st</sup> term 201	8/2019 Level Five
Prerequisite:	Biochemista	y 2 (PB 502)
Credit hours:	Lecture: 1	Practical: 1 Total: 2

### B. Professional Information

### 1. Course Aims:

The course aims to overview the principles of nutrition for healthy and disease states with consideration of the physiological effects of specialized diets for specific biological needs and learn the role of diet in causing and preventing various diseases particularly chronic diseases and different health status.

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### 2. Intended Learning Outcomes (ILOs):

### a. Knowledge and understanding:

At the end of this course, student should be able to:

halo experience $\Lambda 1$ .	<b>a1</b> .	Identify the basic nutritional concepts
	<b>a2.</b>	Enumerate the theories of nutrition assessment
A9	ä3.	Identify the principles of nutrition therapy in blood disorders, obesity and cardiovascular diseases
A11	a4.	Define the principles of proper nutrition in health and disease states in cases like obesity, diabetes mellitus, renal, liver disease and anemia.
A15	a5.	Recognize the appropriate nutrition requirements in different common chronic disease, pregnancy and infancy.

At the end of this course, student should be able to:

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BIS	bl.	Estimate healthy and unhealthy nutrients effects
<b>B18</b>	b2 <sub>4</sub>	Correlate the proper nutrient with pathophysiology in diseases like diabetes, liver, kidney disease and anemia.
B21	<b>b3.</b>	Interpret of clinical laboratory tests with the impact of clinical symptoms in mal nutrition in different chronic disease cases
<b>B11</b>		Assess possible nutrition therapy protocols in implementing pharmaceutical care.
<b>B22</b> .	<b>b5</b> .	Integrate a suitable nutritional therapeutic plan for a patient and apply subjective, objective, assessment, and plan (SOAP) note principles for different diseases.

### c. Professional and Practical Skills:

At the end of this course, student should be able to:

EKINZA PONICO NA PROBLEM POR PROBLEM P	一
	Imply the proper guidelines to ensure the diet
	role in management of chrodic disease, in
	addition to, diet requirements in different states
	like pregnancy and anemia.
Assembly the second of the sec	480 480 480 480 480 480 480 480 480 480







(2010 201)		
	Assess different vitamins deficiencies	
<b>C9</b>	Raise public awareness on role of nutrition in management of chronic diseases like kidney and liver failure by proper understanding of human physiology and etiology of these diseases	
	physiology and onology of these diseases	

### d. General and Transferable Skills:

At the end of this course, student should be able to:

Di di.	Communicate effectively with patients and health care professionals
ANABES AND DESCRIPTION OF THE PROPERTY OF THE	Developinformation technology (IT) skills.
D6 d3.	Develop skills required for self-learning

### 3. Contents: 3.1.Lectures:

20 20		13 10000000 0
Study week	Topics	No. of Credit Hours
1.	Energy balance and Body composition	1
2.	Energy balance and Body composition	1
3.	Nutrition assessment	1
4.	Body Mass index	1
5.	Case study on renal disease	1
6.	Case study on cardiovascular diseases	
7.	Case Study on diabetes mellitus	4401
8.	Case study on liver diseases	1
9.	Case study on Obesity	1
10.	Revision	1
11.	Practical Exami	1

### 3. 2. Practical:

PULL AND ADDING A STREET SALE	Topies	No. of Credit Hours
1.	Energy balance and Body composition	1







2.	Energy balance and Body composition	1
3.	Nutrition assessment	1
4.	Body Mass index	1
5.	Case study on renal disease	1
6.	Case study on cardiovascular diseases	1
7.	Case Study on diabetes mellitus	1
8.	Case study on liver diseases	1
9.	Case study on Obesity	
10.	Revision	T
11.	Practical Exam	1

### Teaching and Learning Methods:

4,1.	Lectures		
4.2.	Practical lab		
4.3.	Discussion		
4.4.	Electronic learnin	· ·	
4.5.	Assignment and h	nomework	

# 5. Student Assessment Methods: 5.1. Assessment methods:

1. Written exam	to assess knowledge, understanding, intellectual and professional
	skills.
	to assess knowledge, understand in the intellectual skills, general &
	transferable skills.
3. Quizzes	to assess knowledge, understanding and intellectual skills.

### 5.2. Assessment schedule:

Assessment I Quiz 1 4 <sup>th</sup> week
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	\_ \_ \	
Assessment 2	Midterm	8 <sup>th</sup> week
Assessment 3	Practical exam	11 <sup>th</sup> week
Assessment 4	Oral exam	12 <sup>th</sup> & 13 <sup>th</sup> weeks
Assessment 5	Written exam	12 <sup>th</sup> & 13 <sup>th</sup> weeks

### 5.3. Weighing of Assessments:

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1. Course work:	The same	
- Quiz 1	5	
- Midterm	5	
2. Final-Term Exam	50	
3. Oral Exam	13	ų
4. Practical Exam	25	
	Total 100%	

### 6. List of References:

Reference	Туре
Human Nutrition, Catherine Geissler Hilary Powers 12 <sup>th</sup> Edition, Churchill Livingstone 2010.	Textbook
Modern Nutrition in Health and Disease / 11 <sup>th</sup> Edition; 2014, by <u>A. Catharine Ross, Benjamin Caballero, Robert J. Cousins, Katherine L. Tucker, Thomas R. Ziegler. Lippincott Williams &amp; Wilkins</u>	Textbook
Understanding normal and clinical nurrition, Sharon Rady Rolfes, Kathryn Pinna, Ellie Whitney 2009, Eighth Edition)	Text book
Nutrition Support to Pharmacologic Nutrition in the ICU by Claude Pichard and Kenneth & Kudsk (2002 Edition).	Textbook







The American journal of clinical nutrition
<a href="https://academic.oup.com/ajcn">https://academic.oup.com/ajcn</a>

Periodical

### 7. Matrix of course contents versus ILOs:

### 7.1. Lectures:

Commence and commence and commence and	aran kaluda orah, dan dipunggan permanantan marah kaludi permanan permanangan bermani seberah dipunggan perman Banggan bermanan bermanan permanangan bangan bermanan permanangan permanangan bermanan seberah bermanan perman	iden <sub>den</sub> Salanian lina (specializara)		engiji jiliyo Bernik ediloka	AND STREET
Study			T.	Os	
week	Course Contents	K&U	IS	P&PS	G&TS
1.	Different types of nutrients	al	b1 b3	e1	
2.	Nutrition assessment principles	a2	61 b3	cl	
3.	Vitamins	. a2	b1 b3	¢1	d1 d2
4.	Minerals+ Quiz 1	a2	b1 - 63	c1	d1 d2
5.	Nutrition and blood disorders	a3	≟ <b>b</b> 2	c1 c3	d1-d3
6.	Nutrition and Cardio vascular disease	a3	bl.	c2 c3	d1
7.	Nutrition in management of obesity	<b>a4</b>	63 b4 65	c2	d
9.	Nutrition in pregnancy and lactation + Midterm	<b>a</b> 5	b3 b4 b5	o2	<b>d</b> 1-d3
10.	Nutrition in Kidney disease	<b>å</b> 4	b3 b4	c <sub>3</sub>	d2
10.	Nutrition in Liver disease	a4	b3 b4 b5	c1	d3

### 7.2. Practical:

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Study	Course Contents	s /////s <sup>al</sup> li	WZ O TT	TO	P&PS	ла те
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1	Energy balance and Body co	ombosition	al	bl	cl	
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2.	Energy balance and Body composition	al	b1	c1,c3	<b></b>
3.	Nutrition assessment	a1	b1	<b>c</b> 3	d1
4.	Body Mass index	a1	b1	c3	d1,d2
5.	Case study on renal disease	a3	b1 b4	c2,c3	d1,d3
6.	Case study on cardiovascular disease	a4	b3 b5	c2,c3	d1,d3
7.	Case Study on diabetes mellitus	a5	b3 b5	c1,c3	d1,d3
9.	Case study on liver diseases	a3	b3 b4	c3	d1,d3
10.	Case study on Obesity	a4 a5	b3	c3	d1,d3

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# Phytotherapy 208







### **Pharmacognosy Department**

### A. Basic Information

Program(s) on which the course is given

Bachelor of pharmacy

Department offering the course

Pharmacognosy department

Faculty offering the program

Faculty of Pharmacy, Fayoum University

Dept. responsible for teaching the course

Pharmacognosy department

Academic year / level

Forth level, first semester

Course title

Phytotherapy

Course code

208

Contact hours (credit hours)

Lecture (2) + Practical (1): Total (3)

Pre-requisite of the course:

Phytochemistry 2

Course coordinator

Prof. Mona Hetta

Major or Minor element of program

Major

Date of specification approval

07/01/2018

### **B-Professional Information**

#### 1-Overall aims of the course:

Coordination between the disease and its natural treatment

2-Intended learning outcomes (ILO's):

#### a-Knowledge and Understanding

By the end of this course, the student should be able to:

- a1. Symptoms of different diseases affecting different body systems
- a2. Methods of treatments using herbal medicines
- a3. Pharmacological actions of each plant as well as their methods of action

#### b-Intellectual Skills:

By the end of this course, the student should be able to:

- b1. from the patient investigations how to figure out the disease
- b2. how to prepare mix of different herbs for treatment

b3. the contraindication of each herb and what to mix with as well as what not to mix with.

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### **Course Specifications** (2017 - 2018)

#### b-Intellectual Skills:

By the end of this course, the student should be able to:

- b1. from the patient investigations how to figure out the disease
- b2. how to prepare mix of different herbs for treatment
- b3. the contraindication of each herb and what to mix with as well as what not to mix with.

#### c-Professional and Practical Skills:

By the end of this course, the student should be able to:

- c1. be able to share his knowledge with MD
- c2. to give his suggestions for treatment
- c3. Use his knowledge to overcome synthetic drugs side effects by replacing them with natural ones.

d-General Skills:

By the end of this course, the student should be able to:

- d1. Make different dissections with patient
- d2. Updated by the most recent through world treatments
- d3. Use surrounding available tools for treatments

Teaching				
week	TOPIC	No. of lecture credit hours	No. of practical credit hours	Assessment of ILOs
L 10	Introduction	2		
2	Introduction + Wound healing	2	1	
3	Digestive system diseases	2	1	A
4	Skin diseases	<b>2</b>	1	
5	Urinary tract diseases	il. 12	1,000	
6	Immunity system		1	g p
	Introduction to different CVS diseases + CHF			din.
8	Hypertension+ Angina 💮 🥫	4 2 A 3 D	T	,
I 197 I	Varicose vein + arterial occlusions	2	1	
10	Respiratory problems Part 1	2/ /2/	1	-
11	Respiratory problems Part 2	-3.2	1	·
	Endocrine (hormonal imbalance + Diabetes)	23.2	1	
	Total	12	11	





### **Course Specifications** (2017 - 2018)

### 4-Teaching and Learning Methods (lectures, open discussion, role plays, ..etc):

Using advanced teaching techniques as power point presentation as well as discussion circles in addition to carrying out projects.

#### 5- Student Assessment:

Periodical exams (2-3 exams) – activities: (search – presentation)

Practical exam

Final theoretical exam

Oral exam

### a-Assessment Methods and Weighing:

Class participation: 20marks (13.33%)

Tutorial/Practical exam: 25marks (16.66%)

Oral exam: 20 marks (13.33%)

Final exam: 80 marks (53.33%)

#### b-Assessment Schedule:

Class participation: Quiz 1: Week 4-5

Quiz 2: Week 10-11-

Other activities: throughout the semester

Case study:

weeks: 8, 9, 10,

Presentations:

weeks: 4 till 8.

Practical exam:

Week 12delivery of products, identification of samples (A.C

Oral exam:

According to semester timetable

Final exam:

According to semester timetable

#### 6-List of References:

Course Notes

Lecture and practical notes prepared by instructors

Required Books

WHO monographs on selected medicinal plants volume 1&2

World Health, Organization, Geneva, 1999.

Recommended **Books** 

Medicinal Natural Products A Biosynthetic Approach, Second Edition, Paul M Dewick, 2002

Fundamentals of Pharmacognosy and Phytotherapy was written by Michael Heinrich, 2004, and published by Elsevier Science, Spain.

Periodicals

Web Sites

http://www.pubmed.com http://www.botanical.com

http://www.herbmed.com

Teaching professors: Prof. Dr. Abdel Salam Ibrahim - Prof. Dr. Mona Hetta

Course Coordinator: Prof. Mona H. Hetta

Head of Department: Prof. Mona H. Hetta

Date: 07/01/2018







**Course: Therapeutics 1** 

Course code: PO 905









### A. Basic Information

Program(s) on which the course is given:

Clinical

Department offering the course

Pharmacology & toxicology

Faculty offering the program

Faculty of pharmacy

Dept. responsible for teaching the course

Pharmacology & toxicology

Academic year / level

5 level

Course title

Therapeutics I

Course code

PO 905

Contact hours (credit hours)

Pre-requisite of the course:

Pharmacology 2

Course coordinator

Dr.Mohamed Hamzawy

Date of specification approval

/09/2018

### **B.** Professional Information

#### Overall Aims of Course

The course aims to enhance the student's capacity of pharmacotherapeutic approaches for treatment different disorders, and help them to provide the proper therapeutic regimens for patients with multi-morbid conditions or in special patients group.

### 2. Intended Learning Outcomes of Course (ILOs)

### a- Knowledge and Understanding:

By the end of the course, the students should be able to:

- a1. Know pharmacotherapeutic regimens of several diseases
- a2. Know pharmacotherapeutic requirements for treatment of neonates.

a3. Understand the non-pharmacological approaches in treatment of different disorders.

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### b- Intellectual Skills

- b1. Solve the medical health problems that demonstrated in patients with special medical conditions.
- b2.design therapeutic protocols for specific medical disorders.
- b3. evaluate the effectiveness and output of individualized therapeutic approach for treatment of specific disorders.

By the end of this course, the student should be able to:

### c- Professional and Practical Skills

- c1. Apply the knowledge of the course into development of therapeutic modalities for different diseases.
- c2. Select the most proper treatment approach for specific medical disorders
- c3. Estimate the medical conditions and impact of various medical treatment.

By the end of the course, the student should be able to:

### d-general Skills

By the end of the course, the student should be able to:

- d1. Have the power to work effectively in the team
- d2. Show scientific and logical thinking approach in providing pharmacotherapeutic regimen.

### 3. Contents

Teaching week		No. of lecture hours	No. of Practical hours	Total
1	Pharmacotherapy of rechate	Design of the second of the se	1	3
2	Pharmacotherapy of rheumatoid	2	1	3
3	Pharmacotherapy of gout and osteoarthritis	2	1	3







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Λ	Pharmacotherapy of acute kidney	4		6
4	disease		2	
	Pharmacotherapy of chronic kidney	4		6
5	disease		2	
6	Gene therapy	4	2.	6
···	DI di C.I	2		
7	Pharmacotherapy of glaucoma	2	1	3
		and the state of t	3	
8	Blood disorders	1.4	2	6
	Total	24	12	36
				[** <u></u>

### 4. Teaching and Learning Methods

- -Lectures (board, data show)
- practical sections
- Open discussion
- -Assignments
- -Role plays

### 5. Student Assessment Methods and weighing:

- written exams evaluate the levels of knowledge and understanding and intellectual skills.
- periodic exams evaluate the levels knowledge and understanding the intellectual skills
- practical exams evaluate the levels of the practical skills
- -oral exams evaluate the levels of knowledge and understanding and intellectual skills
- class participation #10%
- practical exam :25%
- Oral exam:15%
- -final exam 50%

### **Assessment Schedule**

Quiz 1

week4-5

Quiz 2

week 8-9

Practical exam

week 12

Oral exam

according to semester schedule







Final exam

according to semester schedule

### 6. List of References

6.1- Course Notes: applied therapeutic for pharmacy students

6.2- required books: roger wolker and cate wittlesea

Clinical pharmacy and therapeutics, 5th edition

6.3- recommended books: Koda Kimble, applied therapeutics: the clinical use of

6.4- periodicals: elinical therapeutics journal.

## Facilities required for teaching and learning

1. Lecture rooms with data show

2. Procurement of latest edition of the above-mentioned texts and others to update the

Course Coordinator: Dr. Mohamed Hamzawy

Head of Department: Ass.prof. Mona El-Naaa

Date: /09/2018

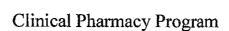
## Course Specifications

# Good Manufacturing Practices

(PT E12)

Elective Course







#### Course Specification

A-Basic Information	
Course code:	PT E12
Course name:	Good manufacturing practice
Credit hours of the course:	Lecture:2 Practical: 0 Total: 2
Pre-requisite of the course:	Registration
Department teaching the course:	Pharmaceutics
Program for which the course is given:	Clinical Pharmacy Program
Course Co-coordinator:	Dr. Doaa Helal
Head of the Department:	Prof Dr. Mona Hetta
Date of specifications approval:	12/1/2019

#### **B-Professional Information**

#### 1- Overall aims of the course:

By the end of this course the students should be able to:

to provide students with a comprehensive understanding of **quality control**, **regulatory compliance**, and **manufacturing best practices** across various industries, particularly those governed by strict regulatory frameworks such as pharmaceuticals, food production, and consumer goods. The course is designed to equip students with the theoretical knowledge and practical skills necessary to implement, manage, and optimize quality control systems, ensure compliance with industry regulations, and uphold high standards of safety, efficiency, and accountability throughout the production and distribution processes.

#### 2-intended learning outcomes (ILO'S)

#### a- knowledge and understanding

by the end of this course, the student should be able to:

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#### Clinical Pharmacy Program



- A1. Define and explain key concepts in quality control and regulatory **compliance**, including terminology, standards, and principles used across manufacturing industries (e.g., Good Manufacturing Practices (GMP), International Organization for Standardization (ISO), and regulatory bodies like the FDA).
- A2. Understand the regulatory frameworks that govern different industries, with a focus on the specific requirements for compliance in sectors like pharmaceuticals, food production, and consumer goods.

A3Describe the core components of production and process control systems, including the methods and tools used for process monitoring, quality testing, validation, and ensuring the consistency and safety of manufactured products.

#### B. intellectual Skills

By the end of this course, students should be able to:

- B1.Critically evaluate regulatory frameworks and standards in manufacturing industries (e.g., GMP, FDA, ISO), assessing their relevance, effectiveness, and application in maintaining product quality and ensuring compliance.
- B2. Analyze production and process data to identify areas of improvement, potential risks, and opportunities for optimization in manufacturing processes. This includes interpreting process control charts, statistical data, and quality assurance metrics.
- B3.Develop solutions to quality-related problems by applying theoretical concepts to practical scenarios, demonstrating the ability to propose corrective actions for quality control failures, deviations, or non-compliance issues.

#### C-Professional and Practical Skill

By the end of this course, students should be able to:

- C1.Implement quality control procedures within manufacturing settings, including setting up and maintaining systems for monitoring product quality, conducting inspections, and using statistical tools to assess process performance and outcomes.
- C2. Conduct laboratory tests to assess product quality, following Good Laboratory Practices (GLP) and industry-specific testing standards. This includes performing validation tests, stability tests, and sample analysis to ensure compliance with regulatory standards.
- C3.Apply regulatory guidelines (such as GMP, ISQ, and FDA regulations) to real-world manufacturing situations, ensuring that processes, facilities, and products adhere to required standards and pass regulatory audits and inspections.

#### **D-General Skills:**

By the end of this course, the student should be able to:

- D1.Communicate effectively in professional contexts, both orally and in writing, by presenting complex information about quality control, regulatory compliance, and manufacturing processes in a clear, concise, and structured manner to diverse audiences, including colleagues, regulators, and management.
- d2. Work independently and manage time efficiently, demonstrating the ability to plan, prioritize, and complete tasks related to quality assurance and compliance within specified deadlines, while maintaining a high standard of work.D3. Apply critical thinking and problem-solving skills to real-world scenarios, using evidence-based reasoning to address challenges related to quality control, regulatory compliance, and product safety





### Clinical Pharmacy Program

<b>13.</b> • .	No. of hours			
Topic	Lecture	Practical	Total	
Introduction to Quality Control and Regulatory Compliance	2	0	2	
Regulatory Frameworks and Compliance Standards	2	0	2	
Production and Process Control Systems	2	0	2	
Packaging and Labelling Compliance	2	0	2	
Laboratory Controls and Good Laboratory Practices (GLP)	1	0	1	
Distribution and Supply Chain Compliance	1	0	1	
Audits, Inspections, and Regulatory Reporting	1	0	1	
Compliance Challenges and Industry Best Practices	1	0	1	
Total	12	0	12	



### 4- Teaching and Learning Methods (lectures, open discussion, role plays...etc.):

- Lectures, using Power point presentation
- Open discussion





#### a- Assessment Methods and Weighing

- Class participation: 10%

- Practical Exam: --

- Oral Exam :--

- Final Exam: 90%

#### b- Assessment Schedule:

- Class participation: Quiz 1: Week 4-5

Quiz 2: Week 8-9

Other activities: throughout the semester

- Practical Exam:

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- Final Exam:

According to semester timetable

Course Coordinator: Dr. Doaa Helal-

Head of Department: Prof. Dr. Monal

Date: 11/2/2019









#### **Clinical Pharmacy Program** (2018-2019)

#### **Course Specifications**

A-Basic Information			
Course code:	PO 007		
Course name:	Therapeutics 2		
Credit hours of the course:	Lecture: 2		
	Practical:1		
	Total:3		
Pre-requisite of the course:	Pharmacology 2		
Department teaching the course:	Pharmacology & Toxicology		
Program for which the course is given:	Clinical Pharmacy Program		
Course Co-ordinator:	Dr. Mohamed Hamzawy		
Head of the Department:	Ass. Prof. Mona El Naa		
Date of specifications approval:	07/09/2018		

#### **B-Professional Information**

#### 1-Overall aims of the course:

The course aims to enhance the student's capacity of pharmacotheraputic approaches for treatment different disorders, and help them to provide the proper therapeutic regimens for patients with multi-morbid conditions or in special patients group

2-Intended learning outcomes (ILO's):

a-Knowledge and Understanding:

By the end of this course, the student should be able to:

Page 1 of 4 6 9







#### **Faculty of Pharmacy**

### Clinical Pharmacy Program (2018-2019)

- a1-Know Pharmacotheraputic regimens of several diseases.
- a2-Know pharmacotheraputic requirements for treatment of adrenal disorders, women disorders and endocrinal diseases.
- a3-Understand the non-pharmacological approaches in treatment of different disorders.

#### b-Intellectual Skills:

By the end of this course, the student should be able to:

- b1-Solve the medical health problems that demonstrated in patients with special medical conditions.
- b2-Design therapeutic protocols for specific medical disorders such as diabetes mellitus, erectile dysfunction.
- b3-Evaluate the effectiveness and output of individualized therapeutic approach for treatment of specific disorders.

#### c-Professional and Practical Skills:

By the end of this course, the student should be able to:

- c1-Apply the knowledge of the course into development of therapeutic modalities for different diseases.
- c2-Select the most proper treatment approach for specific medical disorders.
- c3-Estimate the medical conditions and impact of various medical treatment.

#### d-General Skills:

By the end of this course, the student should be able to:

- d1-Have the power to work effectively in the team.
- d2-Show scientific and logical thinking approach in providing pharmaetheraputic regimen.

3-Course contents:	
	No of hours  Lecture Practical Total
Adrenal gland Disorder	2 1 3







#### **Faculty of Pharmacy**

### Clinical Pharmacy Program (2018-2019)

Adrenal gland Disorder	2	. 1	3
Thyroid gland Disorders	2	. 1	3
Adrenal gland Disorder	2	1	3
Diabetes Mellitus	2	1	3
Diabetes Mellitus and other endocrine disorders	2	1	3
Pituitary gland Disorders	2	1	3
Thyroid gland Disorders	2	1	3
Prostatic hyperplasia and disorders	2	1	3
Erectile dysfunctions	2	1	3
Women Health	2	1	3
Women Health	2	1	3
Calcium metabolism Disorders	2	1	3
Total	24	12	36

#### 4-Teaching and Learning Methods (lectures, open discussion, role plays, ..etc):

- Lectures.
- Practical sections.
- Open discussion.
- Assignments.
- Role plays.

#### 5- Student Assessment:

#### a-Assessment Methods and Weighing:

- Written exams evaluate the levels of knowledge and understanding and Intellectual
- Periodic exams evaluate the levels knowledge and understanding and Intellectual Skills.







#### Faculty of Pharmacy

#### **Clinical Pharmacy Program** (2018-2019)

Practical exams evaluate the levels of the practical Skills.

Oral exams evaluate the levels knowledge and understanding and Intellectual Skills.

Class participation: 10. %

Practical exam: 25 % Oral exam: 15. %

Final exam: 50. %

#### b-Assessment Schedule:

Class participation: Quiz 1: Week 4-5

Quiz 2: Week 8-9

Other activities: throughout the semester

Practical exam: Week 12

Oral exam:

According to semester timetable

Final exam:

According to semester timetable

6-List of References:	
Course Notes	Applied Therapeutic for Pharmacy Students
Required Books	Roger Wolker and Cate Wittlesea, Clinical Pharmacy and Therapeutics, 5 <sup>th</sup> Edition.
Recommended Books	Koda-Kimble, Applied Therapeutics: The Clinical Use of Drugs, 10 <sup>th</sup> Edition.
Periodicals	Clinical Therapeutics Journal
Web Sites	https://www.medscape.com/

**Course Coordinator:** 

Dr.Mohamed Hamza

Head of Department: Ass. Prof. Mona El

Date:

/09/2018







#### **Faculty of Pharmacy**

#### **Clinical Pharmacy Program**

#### **Course Specifications**

A-Basic Information	
Course code:	PP 010
Course name:	Treatment of dermatological and reproductive diseases
Credit hours of the course:	Lecture: 1h Practical: 1h Total:2h
Pre-requisite of the course:	Pathology, pharmacology-2
Department teaching the course:	Department of pharmacy practice
Program for which the course is given:	Clinical Pharmacy Program
Course Co-ordinator:	Dr. Azza Mansy
Head of the Department:	Prof. Mona Hetta
Date of specifications approval:	01/2019

#### **B-Professional Information**

#### 1-Overall aims of the course:

This course aims to familiarizing the student with the most popular skin diseases, bacterial, viral and fungal disease, their medications, the most updated guidelines for treatment theses diseases.

2-Intended learning outcomes (ILO's):

a-Knowledge and Understanding:

By the end of this course, the student should be able to:

Page 1 of 4 05







#### **Clinical Pharmacy Program**

- a1-Know some of the most popular diseases in **dermatology and reproductive** system
- a2-Know list of guidelines for treatment of each of the studied disease.
- a3-Understand the process of patient monitoring for major diseases.

#### b-Intellectual Skills:

- By the end of this course, the student should be able to:
- b1-Solve some of the patient problems related to studied diseases.
- b2-Design a treatment diagram for studied diseases.
- b3-Evaluate optimal drug therapy for minimizing drug therapy problems.

#### c-Professional and Practical Skills:

- By the end of this course, the student should be able to:
- c1-Apply the benefit risk ratio according to patient case.
- c2-Select the most effective and appropriate drug with the least adverse events for the studied diseases.
- c3 Implement a self-patient monitoring system for achievement of desired therapeutic outcomes.

#### d-General Skills:

- By the end of this course, the student should be able to:
- d1-Have the power to communicate with patients, caregivers, other health care professionals, and the public using appropriate listening, verbal, nonverbal and written communication skills.
- d2-Show informations gained about ethics for exhibiting a caring and respectful attitude.

3-Course contents:				
			No. of hours	į.
Торіс	Lecturer	Lecture	Practica l	Total
Introduction to dermatological diseases.	Dr. Azza Mansy	4h	2h	6







#### Faculty of Pharmacy

#### Clinical Pharmacy Program

Dermatologic Drug Reactions and	Dr. Azza Mansy	4h	2h	6
Self-Treatable Skin Disorders.				
Acne Vulgaris	Dr. Azza Mansy	4h	2h	6
Psoriasis	Dr. Marwa Kamal	4h	2h	6
Psoriasis management	Dr. Marwa Kamal	4h	2h	6
Atopic Dermatitis	Dr. Marwa Kamal	4h	2h	6
Total		24		36

#### 4-Teaching and Learning Methods (lectures, open discussion, role plays, ..etc):

- Case study
- Active learning
- Self-Learning
- Interactive lectures&Open discussions
- Group-based learning for patient counseling

#### 5- Student Assessment:

#### a-Assessment Methods and Weighing:

- Quizzes: 10%

Class participation: 5 %Practical exam: 20 %

Oral exam: 15 %Final exam: 50%

#### b-Assessment Schedule:

- Class participation: Quiz 1: Week 4-5

Quiz 2: Week 8-9

Other activities throughout the semester

- Practical exam:

Week 13-14

- Oral exam:

According to semester timetable

- Final exam:

According to semester timetable







#### **Clinical Pharmacy Program**

6-List of References:	
Course Notes	
Required Books	Pharmacotherapy A Pathophysiologic approach
Recommended Books	Pharmacotherapy principal and practice
Periodicals	
Web Sites	www.pubmed.com www.drugs.com

Course Coordinator: Dr. Azza Mansy Head of Department: Prof. Mona Hetta

Date: 01/2019







#### **Clinical Pharmacy Program**

#### **Course Specifications**

A-Basic Information	
Course code:	PP013
Course name:	Gastroentrology
Credit hours of the course:	Lecture: 2h
	Practical: 1h
	Total:3h
Pre-requisite of the course:	Pathology, pharmacology-2
Department teaching the course:	Department of pharmacy practice
Program for which the course is given:	Clinical Pharmacy Program
Course Co-ordinator:	Dr. Azza mansy
Head of the Department:	Prof. Mona Hetta
Date of specifications approval:	01/2019

#### **B-Professional Information**

#### 1-Overall aims of the course:

This course aims to familiarizing the student with the most common GIT diseases, epidemiological aspects, symptoms and treatment.

#### 2-Intended learning outcomes (ILO's):

#### a-Knowledge and Understanding:

By the end of this course, the student should be able to:

al-Know some of the most common diseases in respiratory system







#### **Clinical Pharmacy Program**

- a2-Know list of guidelines for treatment of each of the studied disease.
- a3-Understand the process of patient monitoring for major diseases.

#### b-Intellectual Skills:

- By the end of this course, the student should be able to:
- b1-Solve some of the patient problems related to studied diseases.
- b2-Design a treatment diagram for studied diseases.
- b3-Evaluate optimal drug therapy for minimizing drug therapy problems.

#### c-Professional and Practical Skills:

- By the end of this course, the student should be able to:
- c1-Apply the benefit risk ratio according to patient case.
- c2-Select the most effective and appropriate drug with the least adverse events for the studied diseases.
- c3 Implement a self-patient monitoring system for achievement of desired therapeutic outcomes.

#### d-General Skills:

By the end of this course, the student should be able to:

- d1-Have the power to communicate with patients, caregivers, other health care professionals, and the public using appropriate listening, verbal, nonverbal and written communication skills.
- d2-Show informations gained about ethics for exhibiting a caring and respectful attitude.

3-Course contents:			89764	
			No. of hours	
Торіс	Lecturer	Lecture	Practical	Total
Evaluation of the Gastrointestinal Tract.	Dr. Azza Mansy	2	1	3
Gastroesophageal Reflux Disease	Dr. Azza Mansy	2	1	3
Peptic Ulcer Disease	Dr. Azza Mansy	4	2	6







#### **Faculty of Pharmacy**

#### Clinical Pharmacy Program

Total		24	12	36
with Hepatic Disease	+20			
Drug Therapy Individualization in Patients	Dr. Marwa Kamal	4	2	6
Viral Hepatitis	Dr. Marwa Kamal	2	1	3
Pancreatitis	Dr. Marwa Kamal	2	1	3
Drug-Induced Liver Disease	Dr. Marwa Kamal	4	2	6
Portal Hypertension and Cirrhosis	Dr. Azza Mansy	2	1	3
Inflammatory Bowel Disease	Dr. Azza Mansy	2	1	3

#### 4-Teaching and Learning Methods (lectures, open discussion, role plays, ..etc):

- Case study
- Active learning
- Self-Learning
- Interactive lectures&Open discussions
- Group-based learning for patient counseling

#### 5- Student Assessment:

#### a-Assessment Methods and Weighing:

- Quizzes: 10%

- Class participation: 5 %

- Practical exam: 20 %

- Oral exam: 15 %

Final exam: 50%

#### b-Assessment Schedule:

- Class participation Quiz 1: Week 4-5

Quiz 2: Week 8-9

Other activities: throughout the semester

- Practical exam:

Week 13-14

- Oral exam:

According to semester timetable

- Final exam:

According to semester timetable







#### **Clinical Pharmacy Program**

6-List of References:		
Course Notes		
Required Books	Pharmacotherapy A Pathophysiologic approach	
Recommended Books	Pharmacotherapy principal and practice	
Periodicals		
Web Sites	www.pubmed.com www.drugs.com	

Course Coordinator: Dr Azza Mansy

Head of Department: Prof. Mona Hetta

Date: 01/2019







#### Clinical Pharmacy Program

#### **Course Specifications**

A-Basic Information		
Course code:	PP015	
Course name:	Drug information	
Credit hours of the course:	Lecture: 1 Practical:0 Total:1	
Pre-requisite of the course:	Pharmacology-2 (PO802) Clinical pharmacy-2 (PP805)	
Department teaching the course:	Department of Pharmacy Practice	
Program for which the course is given:	Clinical Pharmacy Program	
Course Co-ordinator:	Dr. Azza Mancy	
Head of the Department:	Prof. Dr. Mona Hetta	
Date of specifications approval:	7-9-2018	

#### **B-Professional Information**

#### 1-Overall aims of the course:

By the end of this course, the students should be able to retrieve information efficiently; in relation to primary, secondary and tertiary sources, including information retrieval through on-line computer searches. They should also be able to criticize professionally the published literature. The students should be capable of studying and finding information independently.

Page 1 of 4







#### Faculty of Pharmacy

#### Clinical Pharmacy Program

#### 2-Intended learning outcomes (ILO's):

#### a-Knowledge and Understanding:

- By the end of this course, the student should be able to:
- a1-Know different sources of information (primary, secondary and tertiary).
- a2- Describe the principles of pharmacoeconomics applications in pharmacy practice.
- a3-Understand the void in health care system that necessitate the provision of timely, accurate, unbiased drug information by pharmacist
- a4- identify the meaning and principles medical evidence base practice

#### b-Intellectual Skills:

- By the end of this course, the student should be able to:
- b1- Comprehends, assesses reliably scientific data, analyzes published literature in the medical and pharmacy practice.
- b2-Evaluate the medical information from variable sources.

#### c-Professional and Practical Skills:

By the end of this course, the student should be able to:

- c1-Apply their knowledge to assess drug interactions and adverse drug reactions for the proper selection of drugs in various disease conditions
- c2-Select, collect, store and retrieve the medical information from trusted sources
- c3- Apply information technology skills, including word processing, spreadsheet use, database use, archiving data and information retrieval through online computer searches, and internet communication.

#### d-General Skills:

- By the end of this course, the student should be able to:
- d1-Have the power to locate and download on-line data;
- d2-Show the ability to study and find information independently
- d3-show decision making abilities
- d4- Demonstrate critical thinking, problem solving and decision making abilities.
- d5- Managing his/her time effectively







#### **Clinical Pharmacy Program**

	No. of hours			
Торіс	Lecture	Practical	Total	
Drug information evolution and practice -background introduction	1	0	1	
Drug information centers(DIC) and poison control centers functions and structure		0	1	
Systemic approach for effective response to a drug information request	1	0	1	
Drug information resources (Primary, secondary and tertiary resources, the internet).	1	0	1	
pharmacoeconomic analysis; needs, sources and principles	1	0	1	
Pharmacoeconomic analysis modalities	1	0	1	
Evidence based clinical practice guidelines	1	0	1	
Evaluating and reporting medication misadventure	2	0	2	
Pharmacovigillance	1	0	1	
Evaluating epidemiological study design	2	0	2	
Total	12	0	12	

#### 4-Teaching and Learning Methods (lectures, open discussion, role plays, ..etc):

- 1. assignment for responding to a requested drug information assignments
- 2. Interactive lectures & open discussions (Tools; board, data show)
- 3. Office hours for Probation Students







**Fayoum University** 

Final exam:

#### **Faculty of Pharmacy**

#### **Clinical Pharmacy Program**

#### 

According to semester timetable

6-List of References:		
Course Notes	Lectures notes prepared by instructors	
Required Books	N/A	
Recommended Books	drug information – a guide for pharmacist; 5 <sup>th</sup> edition; Malone P.M et al; 2014	
Periodicals	Drug information journal	
Web Sites	WWW.pharmacotherapyonline.com www.medscape.com www.biomednet.com	

**Course Coordinator:** 

Head of Department: Prof. Dr. Mona Hetta

Date: 7-9-2018







#### **Clinical Pharmacy Program**

#### **Course Specifications**

A-Basic Information		
Course code:	PP014	
Course name:	Treatment of respiratory system disease	
Credit hours of the course:	Lecture: 2h Practical: 1h Total:3h	
Pre-requisite of the course:	Pathology, pharmacology-2	
Department teaching the course:	Department of pharmacy practice	
Program for which the course is given:	Clinical Pharmacy Program	
Course Co-ordinator:	Dr. Azza Mansy	
Head of the Department:	Prof. Mona Hetta	
Date of specifications approval:	01/2019	

#### **B-Professional Information**

#### 1-Overall aims of the course:

This course aims to familiarizing the student with some of infectious, occupational and immunological diseases, their medications, the most updated guidelines and as well as assessment of respiratory efficiency treatment.

#### 2-Intended learning outcomes (ILO's):

#### a-Knowledge and Understanding:

By the end of this course, the student should be able to:

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#### Clinical Pharmacy Program

- a1-Know some of the most common diseases in respiratory system
- a2-Know list of guidelines for treatment of each of the studied disease.
- a3-Understand the process of patient monitoring for major diseases.

#### b-Intellectual Skills:

- By the end of this course, the student should be able to:
- b1-Solve some of the patient problems related to studied diseases.
- b2-Design a treatment diagram for studied diseases.
- b3-Evaluate optimal drug therapy for minimizing drug therapy problems.

#### c-Professional and Practical Skills:

- By the end of this course, the student should be able to:
- c1-Apply the benefit risk ratio according to patient case.
- c2-Select the most effective and appropriate drug with the least adverse events for the studied diseases.
- c3 Implement a self-patient monitoring system for achievement of desired therapeutic outcomes.

#### d-General Skills:

By the end of this course, the student should be able to:

- d1-Have the power to communicate with patients, caregivers, other health care professionals, and the public using appropriate listening, verbal, nonverbal and written communication skills.
- d2-Show informations gained about ethics for exhibiting a caring and respectful attitude.

3-Course contents:				
			No. of hours	
Topic	Lecturer	Lecture	Practical	Total
Introduction to Pulmonary Function Testing.	Dr. Azza Mansy	4h	2h	6
Asthma	Dr. Azza Mansy	2h	1 <b>h</b>	3







#### **Faculty of Pharmacy**

#### Clinical Pharmacy Program

Chronic obstructive pulmonary disease (COPD)	Dr. Azza Mansy Dr. Azza Mansy	2h	1h	3
Pulmonary Hypertension		2h	1h	3
Drug-Induced Pulmonary Diseases	Dr. Azza Mansy	2h	1h	3
Cystic Fibrosis	Dr. Marwa Kamal	4h	2h	6
Function and Evaluation of the Immune System	Dr. Marwa Kamal	2h	1h	3
Systemic Lupus Erythematosus	Dr. Marwa Kamal	2h	1h	3
Solid-Organ Transplantation	Dr. Marwa Kamal	4h	2h	6
Total		24	12	36

#### 4-Teaching and Learning Methods (lectures, open discussion, role plays, ..etc):

- Case study
- Active learning
- Self-Learning
- Interactive lectures&Open discussions
- Group-based learning for patient counseling

#### 5- Student Assessment:

#### a-Assessment Methods and Weighing:

Quizzes: 10%

Class participation: 5 % Practical exam: 20 %

Oral exam: 15 %

- Final exam: 50%

#### b-Assessment Schedule:/

Class participation: Quiz 1: Week 4-5

Quiz 2: Week 8-9

Other activities: throughout the semester

Practical exam:

Week 13-14

Oral exam:

According to semester timetable

Final exam:

According to semester timetable







#### **Clinical Pharmacy Program**

6-List of References:			
Course Notes			
Required Books	Pharmacotherapy A Pathophysiologic approach		
Recommended Books	Pharmacotherapy principal and practice		
Periodicals			
Web Sites	www.pubmed.com www.drugs.com		

Course Coordinator / Dr Azza Mansy

Head of Department: Prof. Mona Hetta

Date:

01/2019



جامعــــة الفيوم كلية الصيدلــــة وحدة ضمان الجودة

#### Course specification Y. 1A/Y. 19

Course name: Management of pediatric diseases

Fayoum university

Faculty of pharmacy

Program: Bachelor of Pharmacy (Clinical Pharmacy Pharm D)

**Department of Clinical Pharmacy** 

#### A- Course information:

Course Code:	PP+1+	
Course title:	Management of pediatric disease	
Academic level/ Semester	Level o / semester \.	
Credit hours/ week	Total: Y Lecture Y Practical	
Pre-requisites for this course (if any)	Pharmacology- III	
Course Coordinator	Dr. Marwa Kamal	
Approval date	1/7.19	

#### **B-Professional Information:**

1- Course aims:

#### By the end of this course, the student should be able to:

- \. Understand and explain the nutitional requirements in neonates and infants.
- Y. Understand and explain the pathophysiology, etiology & diagnosis & management of nutritional disorders.
- T. Understand and explain the the neonatology.
- 4. Understand and explain the Management of infectious disease in pediatric.
- •. Understand and explain the pathophysiology, etiology & diagnosis congenital heart disease.
- 1. Understand and explain the pathophysiology, etiology & diagnosis of endocrine, neurological, haematological, renal and respiratory disorder.

V. Understand and explain the pediatric emergencies.

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جامعـــــة الفيوم كلية الصيدلــــة وحدة ضمان الجودة

#### Y- Competencies, key elements and learning outcomes of the course:

Domain	Competencies	NARS (* 14) Key Elements
I- Fundamental Knowledge	1.1. Integrate knowledge from basic and applied pharmaceutical and clinical sciences to standardize materials, formulate and manufacture products, and deliver population and patient-centered care.	1-1-1- Demonstrate understanding of knowledge of pharmaceutical, biomedical, social, behavioral, administrative, and clinical sciences.  1-1-1- Utilize the proper pharmaceutical and medical terms, abbreviations and symbols in pharmacy practice.  1-1-1- Articulate knowledge from fundamental sciences to explain drugs' actions and evaluate their appropriateness, effectiveness, and safety in individuals and populations.
II- Professional and Ethical Practice	Y, 1. Work collaboratively as a member of an interprofessional health care team to improve the quality of life of individuals and communities, and respect patients' rights.	Y-1-1 Perform responsibilities and authorities in compliance with the legal and professional structure and role of all members of the health care professional team. Y-1-Y Adopt ethics of health care and pharmacy profession respecting patients' rights and valuing people diversity. Y-1-Y Recognize own personal and professional limitations and accept the conditions of referral to or guidance from other members of the health care team
	pharmaceutical materials, formulate and manufacture pharmaceutical products, and participate in systems for dispensing, storage, and distribution of medicines.	r-r-t Adopt the principles of pharmaceutical calculations, biostatistical analysis, bioinformatics, pharmacokinetics, and bio-pharmaceutics and their applications in new drug delivery systems, dose modification, bioequivalence studies, and pharmacy practice

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Domain	Competencies	NARS (Y . 1Y) Key Elements
	tyr. Handle and dispose biologicals and synthetic/natural pharmaceutical materials/products effectively and safely with respect to relevant laws and legislations	۲-۳-۲ Recognize and adopt ethical, legal, and safety guidelines for handling and disposal of biologicals, and pharmaceutical materials/products.
	r, £. Actively share professional decisions and proper actions to save patient's life in emergency situations including poisoning with various xenobiotics, and effectively work in forensic fields	r-t-1 Ensure safe handling/use of poisons to avoid their harm to individuals and communities. r-t-r Demonstrate understanding of the first aid measures needed to save patient's life. r-t-r Take actions to solve any identified medicine-related and pharmaceutical care problems
	Y, e. Contribute in pharmaceutical research studies and clinical trials needed to authorize medicinal products	Y-o-1 Fulfill the requirements of the regulatory framework to authorize a medicinal product including quality, safety, and efficacy requirements. Y-o-Y Retrieve, interpret, and critically evaluate evidence-based information needed in pharmacy profession. Y-o-Y Contribute in planning and conducting research studies using appropriate methodologies
	pharmacoeconomic analysis and develop promotion, sales, marketing, and business administration skills.	Y-Y-Y-Y-Y-Y-Y-Y-Y-Y-Y-Y-Y-Y-Y-Y-Y-Y-Y-
III- Pharmaceutical Care	To 1. Apply the principles of body functions to participate in improving health care services using evidence-based data.	pathophysiology, laboratory diagnosis, and clinical features of infections/diseases and their pharmacotherapeutic

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Domain	Competencies	NARS (Y. Y.) Key Elements approaches.
	*, *. Provide counseling and education services to patients and communities about safe and rational use of medicines and medical devices.	r-Y-1 Integrate the pharmacological properties of drugs including mechanisms of action, therapeutic uses, dosage, contra-indications, adverse drug reactions and drug interactions. r-Y-Y Apply the principles of clinical pharmacology and pharmacovigilance for the rational use of medicines and medical devices.
IV-	£, \. Express leadership, time management, critical thinking, problem solving, independent and team working, creativity and entrepreneurial skills.	£-1-1 Demonstrate responsibility for team performance and peer evaluation of other team members, and express time management skills.  £-1-Y Retrieve and critically analyze information, identify and solve problems, and work autonomously and effectively in a team.  £-1-Y Demonstrate creativity and apply entrepreneurial skills within a simulated entrepreneurial activity
Personal Practice	£, Y. Effectively communicate verbally, non-verbally and in writing with individuals and communities.	t-Y-1 Demonstrate effective communication skills verbally, nonverbally, and in writing with professional health care team, patients, and communities. t-Y-Y Use contemporary technologies and media to demonstrate effective presentation skills.
	t.", Express self-awareness and be a life-long learner for continuous professional improvement.	t-۳-1 Perform self-assessment to enhance professional and personal competencies. t-۳-۲ Practice independent learning needed for continuous professional development.

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جامع ــــــة الفيوم كلية الصيدل ــــة وحدة ضمان الجودة

#### \*. Course Contents:

Week no.	Lecture (* credit hours /week)	Practical /tutorial (* credit hours /wcek)
1	Diabetes mellitus: pathophysiology, types, etiology & risk factors	jaundice: pathophysiology, types, etiology , risk factors and cases
۲	diagnosis & management of Gastroenteritis	diagnosis & management of diabetes mellitus cases
<b>"</b>	pathophysiology, etiology & diagnosis & management of Viral hepatitis	Cases on Gastroenteritis
<u> </u>	FS &Status epilepticus and febrile convulsions	Viral hepatitis cases
0	Midter	m Exam
۲,	Management of Nutritional requirement and disorders	Cases on FS &Status epilepticus and febrile convulsions
Υ	pathophysiology, etiology & diagnosis Rickets	Management of Nutritional requirement and disorders cases
λ	pathophysiology, etiology & diagnosis of Rheumatic fever	Cases about Rickets
٩	Neonatal respiratory distress	Rheumatic fever cases
1.	Diagnosis & management Meningitis in pediatrics	Neonatal respiratory distress cases

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Week no.	Lecture (Y credit hours /week)	Practical /tutorial (* credit hours /week)
11	Diagnosis & management Otitis media in pediatrics	Practical exam
١٢	Pathophysiology, diagnosis & management of Attention-Deficit Hyperactivity Disorder in pediatrics	<del>-</del>
1.	Pinal	exam
Total.	YA credit hours	YA [14 credit hours]
Course Total Hours	The cred	it hours

#### 4. Teaching and learning methods:

#### **Examples:**

- 1- Lectures
- Y- Practical laboratory class (tutorial classes, practical training and demonstration)
- **~-** Training visits
- <sup>£</sup>- Self learning (Assignments, reports, poster or oral presentations).
- o- Summer training
- ٦- Assays and reviews
- Y- Discussion groups
- A- Online learning and teaching (using platforms such as thinqi, Microsoft teams or zoom meetings to share material or provide supplementary explanations for students).
- 9- Teaching and learning methods for students with special needs (please specify if any).

o. Student Assessment:

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T. Oral Exams to assess outcomes 1-1-1, 1-1, 1-1-1, 1-1, 1-1-1, 1-1-1, 1-1-1, 1-1-1, 1-1-1, 1-1-1, 1-1-1, 1	a. Assessme Methods	1-2, 4-4-1, 4-4-4	Y. Practical exams to assess outcomes 1-1-1, 1-1-4, Y-	
b. Assessment Schedule  Assessment Periodicals Practical exam Week 11 Written exam Oral exam Week 17  C. Assessments weights  Assessment Written exam Oral exam  Assessment Written exam Oral exam			ss outcomes 1-1-1	, 1-1-7, 1-1-8, ٣-1-
Schedule    Periodicals   Two times per semester     Practical exam   Week \ \ \ \ Written exam   Week \ \ \ \ \ \ Oral exam   Week \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				utcomes 1-1-1 , 1-1-
Periodicals Two times per semester  Practical exam Week \ \ \ \ Written exam Week \ \ \ \ \ Oral exam Week \ \ \ \ \ Oral exam Week \ \ \ \ \ \  C.  Assessments weights  Assessment Practical exam Practical exam Practical exam Practical exam Pro \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	b. Assessm	ent		
Practical exam   Week 11     Written exam   Week 17     Oral exam   Week 17	Schedule	Assessment		Date
Written exam   Week \ \		Periodicals	Two	times per semester
C. Assessments weights  Assessment  Practical exam Periodical Oral exam Veek \frac{1\tau}{\tau}  Piercentage Vo. \tau \tau \tau \tau \tau \tau \tau \tau		Practical exam	ı	Week 11
c. Assessments weights  Assessment Written exam Practical exam Periodical Oral exam  1. 1.7.		Written exam		Week17
Assessments weights  Assessment Written exam Practical exam Periodical Oral exam  Narks  percentage		Oral exam		Week ۱۳
Assessments weights  Assessment Written exam Practical exam Periodical Oral exam Vo Vo% Vo% Vo% Vo% Vo% Vo% Vo% Vo% Vo%				
Weights         Written exam         o.         o.//.           Practical exam         Yo         Yo%           Periodical         Yo         Yo%           Oral exam         Yo         Yo	c.			
Practical exam Periodical Oral exam  Yo  Yo  Yo  Yo  Yo  Yo  Yo  Yo  Yo  Y	Assessmen	ts Assessment	Marks	percentage
Periodical 10 10% Oral exam 1. 1.%	weights	Written exam	٥,	- ,
Oral exam 1. 1.%		Practical exam	70	70%
		Periodical	10	10%
Total Ver		Oral exam	1 +	1 • %
		Total		
				*

#### V. Facilities Required for Teaching and Learning:

#### **Examples:**

- · Classrooms.
- Laboratory facilities.
- white board, smart board, Data show.
- Library.
- Computers.
- Online educational platforms for teaching, discussing research projects and E-exams (Google classrooms, Google drive and Microsoft Teams).
- **A- Textbooks and references:**

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Fayoum University
Faculty of Pharmacy
<b>Quality Assurance Unit</b>



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Lecture and practical notes prepared by the stu  A, Y. Essential textbooks:	II members of the department.
۸٫۳. Recommended textbooks:	••••••
۸٫٤. Journals, websitesetc.	••••••
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Course coordinator:	
Course coordinator:  Name: Dr. Marwa Kamal	Signature:
Course coordinator:  Name: Dr. Marwa Kamal  Head of Department:	Signature:
Name: Dr. Marwa Kamal	Signature:

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#### **Clinical Pharmacy Program**

#### **Course Specifications**

A-Basic Information	
Course code:	PP012
Course name:	Treatment of cardiovascular disease disease
Credit hours of the course:	Lecture: 2h Practical: 1h Total:3h
Pre-requisite of the course:	Pathology, pharmacology-2
Department teaching the course:	Department of pharmacy practice
Program for which the course is given:	Clinical Pharmacy Program
Course Co-ordinator:	Dr. Azza Mansy
Head of the Department:	Prof. Mona Hetta
Date of specifications approval:	01/2019

#### **B-Professional Information**

#### 1-Overall aims of the course:

This course aims to familiarizing the student with disease comprising cardiovascular system, symptoms, prognosis drugs, selection, patients advice with hospital setting practice.

#### 2-Intended learning outcomes (ILO's):

#### a-Knowledge and Understanding:

By the end of this course, the student should be able to:

Page 1 of 4

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#### Clinical Pharmacy Program

- a1-Know some of the most common diseases in respiratory system
- a2-Know list of guidelines for treatment of each of the studied disease.
- a3-Understand the process of patient monitoring for major diseases.

#### **b-Intellectual Skills:**

- By the end of this course, the student should be able to:
- b1-Solve some of the patient problems related to studied diseases.
- b2-Design a treatment diagram for studied diseases.
- b3-Evaluate optimal drug therapy for minimizing drug therapy problems.

#### c-Professional and Practical Skills:

- By the end of this course, the student should be able to:
- c1-Apply the benefit risk ratio according to patient case.
- c2-Select the most effective and appropriate drug with the least adverse events for the studied diseases.
- c3 Implement a self-patient monitoring system for achievement of desired therapeutic outcomes.

#### d-General Skills:

- By the end of this course, the student should be able to:
- d1-Have the power to communicate with patients, caregivers, other health care professionals, and the public using appropriate listening, verbal, nonverbal and written communication skills.
- d2-Show informations gained about ethics for exhibiting a caring and respectful attitude.

3-Course contents:				
	i i		No. of hours	
Topic	Lecturer	Lecture	Practical	Total
Cardiovascular Testing	Dr. Azza Mansy	4h	2h	6
Cardiopulmonary Arrest	Dr. Azza Mansy	2h	1 <b>h</b>	3

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#### **Faculty of Pharmacy**

#### **Clinical Pharmacy Program**

Chronic obstructive pulmonary disease	Dr. Azza Mansy	2h	1h	3
(COPD)		·		
Hypertension	Dr. Azza Mansy	2h	1h	3
Heart Failure	Dr. Azza Mansy	2h	1 <b>h</b>	3
Ischemic Heart Disease	Dr. Marwa Kamal	4h	2h	6
Acute Coronary Syndromes	Dr. Marwa Kamal	2h	1 <b>h</b>	3
The Arrhythmias.	Dr. Marwa Kamal	2h	1h	3
Diastolic Heart Failure	Dr. Marwa Kamal	2h	1h	3
Venous Thromboembolism	Dr. Marwa Kamal	2h	1h	3
Total		24	12	36

#### 4-Teaching and Learning Methods (lectures, open discussion, role plays, ..etc):

- Case study
- Active learning
- Self-Learning
- Interactive lectures&Open discussions
- Group-based learning for patient counseling

#### 5- Student Assessment:

#### a-Assessment Methods and Weighing:

- Quizzes: 10%

Class participation: 5 %Practical exam: 20 %

Oral exam: 15 %Final exam: 50%

#### b-Assessment Schedule:

- Class participation: Quiz 1: Week 4-5

Quiz 2: Week 8-9

Other activities: throughout the semester

- Practical exam:

Week 13-14

Oral exam:

According to semester timetable







#### Clinical Pharmacy Program

- Final exam:	According to semester timetable

6-List of References:	
Course Notes	
Required Books	Pharmacotherapy A Pathophysiologic approach
Recommended Books	Pharmacotherapy principal and practice
Periodicals	
Web Sites	www.pubmed.com www.drugs.com

Course Coordinator:

Dr. Azza Mansy

Head of Department: Prof. Mona El Naa,

Date: 01/2019