COURSE SPECIFICATIONS

Faculty of Pharmacy

First level –Semester 1

2019-2020

CONTENTS:

COURSE SPECIFICATIONS

Pharmaceutical Analytical Chemistry I

First level –Semester 1
2019-2020

Course Specification of Analytical chemistry I

University: **Zagazig** Faculty: **Pharmacy**

A- Course specifications:

Program(s) on which the course is given: Bachelor of Pharmacy (Pharm D)

Major or Minor element of programs: Major

Department offering the program: -------

Department offering the course: Analytical Chemistry

Academic year / Level: First level– First Semester

Date of specification approval:

B- Basic information:

Title: Analytical Chemistry I Code: PA101

Credit Hours: ---

Lectures: 2 hrs/week

Practical: 1 hrs/week

Tutorials: ---

Total: 3 hrs/week

C- Professional information:

1-Overall Aims of the Course:

On completion of the course, students will be able to outline theoretical bases and applications of acid-base, preciptimetric and complexometric and gravimetric reactions.

DOMAIN 1- FUNDAMENTAL KNOWLEDGE	
1-1- COMPETENCY: 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.C1.1	Illustrate different types of volumetric analysis.
1.C1.2	Explain theories and mechanisms of neutralization, preciptimetric, complexometric and gravimetric reactions.
1.C1.3	Describe suitable methods and optimum conditions for separation, and determination of different compounds.
DOMAIN 2: PROFESSIONAL AND ETHICAL PRACTICE	
2-2- COMPETENCY Standardize pharmaceutical materials, formulate and manufacture pharmaceutical products, and participate in systems for dispensing, storage, and distribution of medicines.	
2.C2.1	perform neutralization, preciptimetric, complexometric and gravimetric reactions in determination of some inorganic and organic compounds and their mixtures with interpretation of results
2.C2.2	Calculate pH of different systems and during titration
2.C2.3	Select the most appropriate procedures for determination of different compounds and their mixtures
2-3- COMPETENCY Handle and dispose biologicals and synthetic/natural pharmaceutical materials/products effectively and safely with respect to relevant laws and legislations.	
2.C3.1	Handle and dispose chemicals safely.
2.C3.2	Adopt safety guidelines.
DOMAIN 4: PERSONAL PRACTICE	
4-1- COMPETENCY Express leadership, time management, critical thinking, problem solving, independent and team working, creativity and entrepreneurial skills.	
4.C1.1	Perform tasks within time limit.

2-Key elements of Analytical Chemistry I:

D- Contents:

Week No.	Lecture (2 hrs/week)	Practical session (1 hr /week)
1	- Theoretical basis of volumetric analysis -Acid base reactions and pH calculations	- Safety guidelines - Standardization of strong acids and bases
2	- Buffer solutions and neutralization indicators -Types of acid base indicators	- Determination of $NaOH/Na_2CO_3$
3	- Acid –base titration curve	- Determination of HCl/HAC mixture
4	- Application of neutralization reactions	- Determination of NH_4Cl (indirect) - Determination of boric acid/borax mixture
5	- Non-aqueous titrations and their application	-Determination of $Al_2(SO_4)_3$
6	- Theory of preciptimetry and solubility product rule	-Determination of Cu SO_4
7	Midterm exam	
8	- determination of different compounds and their mixtures.	- Determination of Cl^- by Mohr's method
9	- Theory of complexometry and complexometric indicators	- Determination of Ca^{2+}/Mg^{2+} mixture.
10	- Types of complexometric titrations and their applications	- Determination of Al^{3+}. - Determination of Cu^{2+}.
11	- Theory of gravimetry, contamination and purification of precipitate	Activity
12	- Application of gravimetric analysis	- Determination of Ni^{2+} (gravimetry)
13	Application of gravimetric analysis	**- Practical exam**
14	**-Revision**	
15	**Final exam**	

E- Teaching and Learning Methods:

- Lectures
- Practical sessions
- Think/pair/share

F- Student Assessment methods:

1- Written exams to assess: 1.C1.1, 1.C1.2, 1.C1.3

2- Practical exams to assess: 2.C2.1, 2.C2.2, 2.C2.3, 2.C3.1, 2.C3.2

3- Oral exam to assess: 1.C1.1, 1.C1.2, 1.C1.3

4- Activity to assess: 4.C1.1

Assessment schedule

Assessment (1): Midterm exam	Week 7
Assessment (2): Final written exam	Week 15
Assessment (3): activity	Week 11
Assessment (4): Practical exams	Week 13
Assessment (5): Oral exams	Week 15

Weighting of Assessment

Assessment method	Marks	Percentage
Midterm exam	10	10%
Activity	5	5%
Final written exam	50	50%
Practical practice & exam	25	25%
Oral exam	10	10%
TOTAL	100	100%

G- Facilities required for teaching and learning:

• For lectures : Black (white) boards, data show, air conditioned classroom

• For practical: Well-equipped labs

H- List of References:

1- Course Notes: Student book of Analytical chemistry I approved by Analytical chemistry department (2019).

- Practical notes of Analytical chemistry I approved by Analytical chemistry department (2019).

2- Essential (textbooks):

i- J. Mendham, et al., Vogel's Textbook of Quantitative Chemical Analysis (6^{th} edition);, Addison Wesley Publishing Co., 2000

ii-Daniel C. Harris, Quantitative Chemical Analysis (6^{th}Edition);. (2002).

3- Recommended books:

i. D. C. Harris, Quantitative Analytical Chemistry (9^{th} edition), W. H. Freeman and Co. (2015)

ii. D. Chowrasia, N. Sharma, Analytical Chemistry. A Qualitative & Quantitative Approach(General Techniques) Knoc education (2015).

4- Periodicals, Web Sites, etc

https://www.ekb.eg/

http://chemwiki.ucdavis.edu/

www.Pubmed.Com

www.sciencedirect.com

Course Coordinator: **Prof. Dr.**

Head of Department:

Date: **2019/10/ 8** **تم مناقشة و اعتماد توصيف المقرر من مجلس القسم بتاريخ**

Matrix I of Pharmaceutical Analytical Chemistry-1

Course Contents / Lectures		Key elements of Pharmaceutical Analytical Chemistry-1									
		1-1- COMPETENCY			2-2- COMPETENCY			2-3- COMPETENCY		4-1- COMPETENCY	
		1.C1.1	1.C1.2	1.C1.3	2.C2.1	2.C2.2	2.C2.3	2.C3.1	2.C3.2	4.C1.1	
1	-Theoretical basis of volumetric analysis -Acid base reactions and pH calculations	X	X			X					
2	- Buffer solutions and neutralization indicators -Types of acid base indicators		X			X					
3	- Acid –base titration curve		X	X	X	X					
4	- Application of neutralization reactions		X	X	X	X					
5	- Non-aqueous titrations and their application		X	X	X		X				
7	- Theory of preciptimetry and solubility product rule		X	X	X						
8	- Select the most appropriate procedures for determination of different compounds and their mixtures.		X	X	X		X				
9	- Theory of complexometry and complexometric indicators		X	X	X						
10	- Types of complexometric titrations and their applications		X	X	X		X				
11	- Theory of gravimetry, contamination and purification of precipitate		X	X	X						
12	- Application of gravimetric analysis		X	X	X		X				

1	- Safety guidelines - Standardization of strong acids and bases				X	X		X	X	X	X
2	- Determination of $NaOH/Na_2CO_3$				X	X		X	X	X	X
3	- Determination of HCl/HAC mixture - Determination of NH_4Cl				X	X		X	X	X	X
4	- Determination of boric acid/borax mixture.				X	X		X	X	X	X
5	- Determination of $Al_2(SO_4)_3$ -Determination of Cu SO_4				X			X	X	X	X
7	- Determination of Cl^- by Mohr's method				X			X	X	X	X
8	- Determination of Ca^{2+}/Mg^{2+} mixture.				X			X	X	X	X
9	- Determination of Al^{3+}. - Determination of Cu^{2+}.				X			X	X	X	X
10	Activity				X			X	X	X	X
11	- Determination of Ni^{2+} (gravimetry)				X			X	X	X	X
12	- Revision				X			X	X	X	X

Matrix II of Pharmaceutical Analytical Chemistry-1

National Academic Reference Standards NARS		Program key elements	Course key elements	Course contents	Sources	Teaching and learning methods			Weighting of assessment			
						lecture	practical session	self learning	written exam	practical exam	oral exam	Midterm exam
1.1.1	Demonstrate understanding of knowledge of pharmaceutical, biomedical, social, behavioral, administrative, and clinical sciences.	1.C1.1	1.C1.1 1.C1.2	- Basis of volumetric analysis. - Acid base reactions and pH calculations. - Buffer solutions and neutralization indicators -Types of acid base indicators. - Acid –base titration curve. - Theory of preciptimetry and solubility product rule. - Theory of complexometry and complexometric indicators. - Theory of gravimetry, contamination and purification of	Student book Essential books Recommended books	x			x		x	x

				precipitate								
1.1.3	Integrate knowledge from fundamental sciences to handle, identify, extract, design, prepare, analyze, and assure quality of synthetic/ natural pharmaceutical materials/products.	1.C1.9	1.C1.3	- Application of neutralization reactions. - Non-aqueous titrations and their application. - Select the most appropriate procedures for determination of mixtures. - Types of complexometric titrations and their applications. - Application of gravimetric analysis	Student book Essential books Recommended books	**x**			**x**		**x**	
2.2.1	Isolate, design, identify, synthesize, purify, analyze, and standardize synthetic/ natural pharmaceutical materials.	2.C2.1.	2.C2.1 2.C2.2	- Application of neutralization reactions. - Non-aqueous titrations and their application. - Select the most appropriate procedures for determination of mixtures. - Types of complexometric titrations and their applications.	Student book Essential books Recommended books Practical note	**x**	**x**		**x**	**x**	**x**	**x**

				- Application of gravimetric analysis - All practical sessions.								
2.2.3	Recognize the principles of various tools and instruments, and select the proper techniques for synthesis and analysis of different materials and production of pharmaceuticals.	2.C2.5.	2.C2.3	-Application of neutralization reactions. -Non-aqueous titrations and their application. -Select the most appropriate procedures for determination of mixtures. -Types of complexometric titrations and their applications. -Application of gravimetric analysis - All practical sessions.	Student book Essential books Recommended books Practical note	**X**	**X**		**X**	**X**	**X**	**X**
2.3.1	Handle, identify, and dispose biologicals, synthetic/natural materials, biotechnology-based and radio-labeled products, and other materials/products used	2.C3.1.	2.C3.1 2.C3.2	• Safety guidelines	Practical notes		**X**			**X**		

	in pharmaceutical field.											
4.1.1	Demonstrate responsibility for team performance and peer evaluation of other team members, and express time management skills..	4.C1.3	4.C1.2	Application of neutralization reactions. -Non-aqueous titrations and their application. -Select the most appropriate procedures for determination of mixtures. -Types of complexometric titrations and their applications. -Application of gravimetric analysis - All practical sessions.	Practical notebook		**x**	**x**		**x**		

Course Coordinator: Dr.

Head of Department: Dr

COURSE SPECIFICATIONS

Pharmaceutical Organic Chemistry-1

First level –Semester 1
2019-2020

Course Specification of Pharmaceutical organic chemistry I

University: **Zagazig** Faculty: **Pharmacy**

A- Course specifications:

Program(s) on which the course is given: Bachelor of Pharmacy (Pharm D)

Major or Minor element of programs: Major

Department offering the program: -------

Department offering the course: Pharmaceutical organic Chemistry

Academic year / Level: First level– First Semester

Date of specification approval: Sep 2019

B- Basic information:

Title: Pharmaceutical organic Chemistry I Code: PR 101

Credit Hours: ---

Lectures: 2 hrs/week

Practical: 1 hrs/week

Tutorials: ---

Total: 3 hrs/week

C- Professional information:

1-Overall Aims of the Course:

On completion of the course, students will be able to recognize different type of hybridization and geometry of carbon atoms and other multivalent atoms in organic compounds, different functional groups and their molecular structure in organic compounds, steps of nomenclature of organic compounds and qualitative identification of organic compounds, chemistry of aliphatic saturated and unsaturated hydrocarbon as well as aromatic and anti-aromatic organic compounds.

2-Key elements of pharmaceutical organic Chemistry I:

DOMAIN 1- FUNDAMENTAL KNOWLEDGE	
1.1. COMPETENCY: 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.C1.1	Recognize the atomic structures, hybridization of atoms and their bonding, electron displacement, classification, acidity/basicity, IUPAC nomenclature and stereochemistry of organic compounds
1.C1.2	Outline different synthetic pathways and reactions of alkanes, alkenes, alkynes and conjugated dienes.
1.C1.3	Identify aromatic and antiaromatic organic compounds.
DOMAIN 2: PROFESSIONAL AND ETHICAL PRACTICE	
2-2- COMPETENCY Standardize pharmaceutical materials, formulate and manufacture pharmaceutical products, and participate in systems for dispensing, storage, and distribution of medicines.	
2.C2.1	Identify qualitatively the main functional groups of organic raw materials of drugs.
2.C2.2	Select the appropriate methods for synthesis of drugs using appropriate organic raw materials.
2.C2.3	Write systematic laboratory reports including experimental procedures, observations and conclusions
2-3- COMPETENCY Handle and dispose biologicals and synthetic/natural pharmaceutical materials/products effectively and safely with respect to relevant laws and legislations.	
2.C3.1	Handle basic laboratory equipments and organic raw materials of drugs effectively and safely.
DOMAIN 4: PERSONAL PRACTICE	
4-1- COMPETENCY Express leadership, time management, critical thinking, problem solving, independent and team working, creativity and entrepreneurial skills.	
4.C1.1	Manage time wisely to achieve goals.

D- Contents:

Week No.	Lecture contents (2 hrs/lec.)	Practical session (1 hrs/lab)
1	Atomic structure, covalent bonding, hybridization of carbon and elements of organic compounds and molecular orbital theory	Laboratory safety measures, introduction to the concept of identification of organic compounds.
2	Electronegativity, molecular polarity and dipole moment and hydrogen bonding between molecules. Representation and classification of organic compounds.	General scheme for identification of organic compounds. • Physical properties (condition, color and odor).
3	IUPAC nomenclature of organic compounds.	• Determination of solubility • Acidity test
4	Isomerism and conformational stereoisomers.	General Chemical tests **1.** Action of 30% NaOH.
5	Configurational stereoisomers: Geometrical isomers and optically active isomers	**2.** Action of ferric chloride.
6	Optically active compounds that do not contain chiral centers.	**3.** Action of conc. H_2SO_4.
7	**Midterm exam**	
8	Nomenclature of configurational stereoisomers	Test for functional groups (1).
9	Theories of electron displacement inside organic molecules: Inductive and mesomeric effects.	Tests for functional groups (2).
10	Organic reactions and mechanism.	Tests for functional groups (3).
11	Sources and reactions of alkanes. Preparation of alkenes.	Tests of unsaturation
12	Reactions of alkenes.	Revision
13	Stereochemistry of alkenes reactions Stereospecific reactions.	Practical exam.
14	Preparation and reactions of alkynes and conjugated dienes Aromatic and anti-aromatic compounds.	Practical exam.
15	Final written exam	

E- Teaching and Learning Methods:

- Lectures
- Demonstration using models
- Practical sessions
- Think/pair/share

F- Student Assessment methods:

1- Written exams to assess: 1.C1.1, 1.C1.2, 1.C1.3

5- Practical exams to assess: 2.C2.1, 2.C2.2, 2.C2.3, 2.C3.1

6- Oral exam to assess: 1.C1.1, 1.C1.2, 1.C1.3

7- Activity (Report writing) to assess: 4.C1.1

8- Assessment schedule

Assessment (1): Midterm exam	Week 7
Assessment (2): Final written exam	Week 15
Assessment (3): report	Each lab
Assessment (4): Practical exams	Week 13,14
Assessment (5): Oral exams	Week 15

Weighting of Assessment

Assessment method	Marks	Percentage
Midterm exam	10	10%
Activity	5	5%
Final written exam	50	50%
Practical practice & exam	25	25%
Oral exam	10	10%
TOTAL	100	100%

G- Facilities required for teaching and learning:

• For lectures : Black (white) boards, data show, stereochemical molecular model, air conditioned classroom

• For practical: Well-equipped labs

H- List of References:

1- Course Notes: Student book of Pharmaceutical Organic chemistry approved by the department 2019.

2- Essential (textbooks):

- ✓ Francis A. Carey, 2009, Organic Chemistry; 9th Edition, McGraw-Hill
- ✓ T. W. Graham Solomons and Craig B. Fryhle, 2010, Organic Chemistry; 11th Edition, John willy & Sons Inc, USA.

Course Coordinator: Prof. Dr. Zakaria Abdelsamii

Head of Department: Prof. Dr. Hanan Abdelfatah

تم مناقشة و اعتماد توصيف المقرر من مجلس القسم بتاريخ 26 / 8 / 2019م

Matrix I of Pharmaceutical organic Chemistry-1										
Course Contents / Lectures		Key elements of Pharmaceutical organic Chemistry-1								
		1-1- COMPETENCY			2-2- COMPETENCY			2-3- COMPETENCY	4-1- COMPETENCY	
		1.C1.1	1.C1.2	1.C1.3	2.C2.1	2.C2.2	2.C2.3	2.C3.2	4.C1.1	
1	Atomic structure, covalent bonding, hybridization of carbon and elements of organic compounds and molecular orbital theory	x		X						
2	Electronegativity, molecular polarity and dipole moment and hydrogen bonding between molecules. Representation and classification of organic compounds.	x		X						
3	IUPAC nomenclature of organic compounds.	x		X						
4	Isomerism and conformational stereoisomers	x		X						
5	Configurational stereoisomers: Geometrical isomers and optically active isomers	x		X						
7	Optically active compounds that do not contain chiral centers.	x		X						
8	Nomenclature of configurational stereoisomers	x		X						
9	Theories of electron displacement inside organic molecules: Inductive and mesomeric effects.	x		x						
10	Organic reactions and mechanism.		X	X						

11	Sources and reactions of alkanes. Preparation of alkenes.		X	X						
12	Reactions of alkenes.		x	X						
13	Stereochemistry of alkenes reactions Stereospecific reactions.	x								
14	Preparation and reactions of alkynes and conjugated dienes Aromatic and anti-aromatic compounds.		x	x						
1	Laboratory safety measures, introduction to the concept of identification of organic compounds.				X	X	X	X	X	
2	Laboratory safety measures, introduction to the concept of identification of organic compounds.			X	X	X	X	X	X	
3	• Determination of solubility Acidity test			X	X	X	X	X	X	
4	General Chemical tests 1.Action of 30% NaOH.			X	X	X	X	X	X	
5	2. Action of ferric chloride.			X	X	X	X	X	X	
7	3. Action of conc. H_2SO_4			X	X	X	X	X	X	
8	Test for functional groups (1).			X	X	X	X	X	X	
9	Tests for functional groups (2).			X	X	X	X	X	X	
10	Tests for functional groups (3).			X	X	X	X	X	X	
11	Tests of unsaturation			X	x	X	X	X	X	

Matrix II of Pharmaceutical organic chemistry-1

National Academic Reference Standards NARS		Program key elements	Course key elements	Course contents	Sources	Teaching and learning methods			Weighting of assessment			
						lecture	practical session	self learning	written exam	practical exam	oral exam	Midterm exam
1.1.1	Demonstrate understanding of knowledge of pharmaceutical, biomedical, social, behavioral, administrative, and clinical sciences.	1.C1.1	1.C1.1 1.C1.3	Atomic structure, covalent bonding, hybridization of carbon and elements of organic compounds and molecular orbital theory Electronegativity, molecular polarity and dipole moment and hydrogen bonding between molecules. Representation and classification of organic compounds. IUPAC nomenclature of organic compounds. Isomerism and conformational stereoisomers Configurational	Student book Essential books Recommended books	x			x		x	x

				stereoisomers: Geometrical isomers and optically active isomers Optically active compounds that do not contain chiral centers. Nomenclature of configurational stereoisomers Theories of electron displacement inside organic molecules: Inductive and mesomeric effects.								
1.1.3	Integrate knowledge from fundamental sciences to handle, identify, extract, design, prepare, analyze, and assure quality of synthetic/ natural pharmaceutical materials/products.	1.C1.9	1.C1.2	Organic reactions and mechanism. Sources and reactions of alkanes. Preparation of alkenes. Reactions of alkenes. Stereochemistry of alkenes reactions Stereospecific reactions. Preparation and reactions of alkynes and conjugated dienes Aromatic and anti-aromatic compounds.	Student book Essential books Recommended books	**x**			**x**		**x**	

2.2.1	Isolate, design, identify, synthesize, purify, analyze, and standardize synthetic/ natural pharmaceutical materials.	2.C2.1.	2.C2.1 2.C2.3	Laboratory safety measures, introduction to the concept of identification of organic compounds. Laboratory safety measures, introduction to the concept of identification of organic compounds. •Determination of solubility Acidity test General Chemical tests 1.Action of 30% NaOH. 2.Action of ferric chloride. 3. Action of conc. H2SO4 Test for functional groups (1). Tests for functional groups (2). Tests for functional groups (3). Tests of unsaturation	Student book Essential books Recommended books Practical note		**X**			**X**		
2.3.1	Handle, identify, and dispose biologicals, synthetic/natural materials, biotechnology-based and radio-labeled products, and other materials/products used in pharmaceutical field.	2.C3.1.	2.C3.1		Practical notes		**X**			**X**		
4.1.1	Demonstrate responsibility for team performance and peer evaluation of other team members, and express time management skills..	4.C1.1	4.C1.1		Practical notebook		**X**			**X**		

Course Coordinator: Prof. Dr. Zakaria Abdelsamii

Head of Department: Prof. Dr. Hanan Abdelfatah

تم مناقشة و اعتماد توصيف المقرر من مجلس القسم بتاريخ 26 / 8 / 2019م

COURSE SPECIFICATIONS

Pharmacy Orientation

First level –Semester 1
2019-2020

Course specification of pharmacy orientation

University: Zagazig **Faculty: Pharmacy**

A- Course specifications:

Program (s) on which the course is given: Bachelor of Pharmacy (Pharm D)

Major or Minor element of programs: Major

Department offering the program: -------

Department offering the course: Pharmaceutics Department

Academic year Level: First level / semester 1

Date of specification approval: October 2019

B- Basic information:

Title: Pharmacy orientation Code: **PT 101**

Credit Hours: ---

Lectures: 1 hr/week

Practical: NA

Tutorials: NA

Total: 1 hrs/week

C- Professional information:

1-Overall aim of the course

On completion of the course, the student will be able to recognize the multiple aspects of the profession of pharmacy, including the mission of pharmacy, role of pharmacist in society and pharmacy careers, classification of medications, interpretation of prescriptions and medication orders, general dispensing procedure and factors affecting drug dosage, sources of drugs, different dosage forms and various routes of administration. In addition to the history of pharmacy practice in various civilizations

2- Key elements of Pharmacy Orientation:

DOMAIN 1- FUNDAMENTAL KNOWLEDGE	
1-1- COMPETENCY: Integrate knowledge from basic and applied pharmaceutical and clinical sciences to standardize materials, formulate and manufacture products, and deliver population and patient-centred care.	
1.C1.1.	Define different concepts related to pharmacy profession, duties of pharmacist at various pharmacy sittings, drug information sources and various pharmaceutical and medical terms
1.C1.2.	Identify the pharmacy careers and educational requirements
1.C1.3.	Describe drug, medicine and excipients
1.C1.4.	Enumerate different types of dosage forms and their routes of administration
1.C1.5	Summarize the history of pharmacy
1.C1. 6	Use the proper pharmaceutical, medical terms, abbreviations and symbols in pharmacy practice.
DOMAIN 2: PROFESSIONAL AND ETHICAL PRACTICE	
2-1- COMPETENCY: Work collaboratively as a member of an inter-professional health care team to improve the quality of life of individuals and communities, and respect patients'rights	
2.C1.1	Interpret the pharmaceutical order and follow the dispensing procedure
DOMAIN 4: PERSONAL PRACTICE	
4-2- COMPETENCY: Effectively communicate verbally, non-verbally and in writing with individuals and communities.	
4.C2.1.	Communicate effectively with patients and other health care professionals, including both written and oral communication

D-Course Content of Pharmacy Orientation:

Week No.	Lecture contents (1 hrs/lec.)
1	**Introduction to pharmacy:** -Pharmacy profession, pharmaceutics, pharmacists, pharmacy education, Pharmaceutical organizations
2	**Drug information sources (Pharmacopeias and Formularies)**
3	**Pharmacy careers and role of pharmacists**
4	**Drug and medicine:** Definition of drugs, medicines and excipients, drug characteristics, sources, nomenclatures,
5	**Drug classifications**
6	**Medical and pharmaceutical terminology**
7	**Periodical exam**
8	**Routes of drug administration**
9	**Introduction to pharmaceutical dosage forms**
10	**Introduction to pharmaceutical dosage forms**
11	**Drug Dosage, Factors affecting dose**
12	**Medical Prescription and medication order and their interpretation**
13	**General procedure of dispensing**
14	**History of pharmacy -** الدواء وبلاد ما بين النهرين- المصريين القدماء فضل العرب والمسلمين على الدواء والمداواة
15	**Final written exam**

E- Teaching and Learning Methods:

- Lectures
- General Discussion
- Think/pair/share

F- Student Assessment methods:

- Midterm & final written exam to assess: 1.C1.1, .1.C1.2, 1.C1.3, 1.C1.4,1.C1.5, 1.C1.6, 2.C1.1, 4.C2.1

Assessment schedule:

Assessment (1):Midterm exam	Week 7
Assessment (2):Final written exam	Week 15

Weighting of Assessment

Assessment method	Marks	Percentage
Midterm exam	25	25%

Final written exam	75	75%
TOTAL	100	100%

G- Facilities required for teaching and learning:

• For lectures : Black (white) boards, data show, air conditioned classroom

H- List of References:

1. **Course Notes:**
   - ✓ Student handout of pharmacy orientation approved by pharmaceutics department (2019).

2- Essential Books (Textbooks)

- ✓ Ansel's Pharmaceutical Dosage Forms and Drug Delivery Systems (2017):By Loyd Allen, 11th eddition
- ✓ Remington: the Science and Practice of Pharmacy" (2000), By Genars, Alfonso R. 20th edition
- ✓ Pharmaceutical Calculations (2010), By Howard C. Ansel and Mitchell J. Stoklosa 13th Edition

3-Periodicals and websites:

- ✓ Essential Medicines and Health Products Information Portal A World Health Organization resource Ensuring good dispensing practices Part II: Pharmaceutical managemen, chapter 30. March 2012 . http://www.msh.org/

Course Coordinator: Nagia Ahmed El-megrab:
Head of Department: Nagia Ahmed El-megrab:
The course description was discussed and approved by the department council on 28/10/2019

تم مناقشة و اعتماد توصيف المقرر من مجلس القسم بتاريخ 28 / 10 / 2019 م

Matrix I of pharmacy orientation course

Course contents		Key elements of orientation course											
		COMPETENCY 1.1						COMPETENCY 2.1			COMPETENCY4.2		
Lectures		1.C1.1	1.C1.2	1.C1.3	1.C1.4	1.C1.5	1.C1.6	2.1.1			4.2.1		
1	**Introduction to pharmacy:** -Pharmacy profession, pharmaceutics, pharmacists, pharmacy education, Pharmaceutical organizations	x									**x**		
2	**Drug information sources (Pharmacopeias and Formularies)**	**x**									**x**		
3	**Pharmacy careers and role of pharmacists**		x								**x**		
4	**Drug and medicine:** Definition of drugs, medicines and excipients, drug characteristics, sources, nomenclatures,			x							x		
5	**Drug classifications**			x							x		
6	**Medical and pharmaceutical terminology**	**x**					**x**				x		
7	**Routes of drug administration**	x			**x**						**x**		
8	**Introduction to pharmaceutical dosage forms**				x			**x**			**x**		
9	**Drug Dosage, Factors affecting dose**				**x**			x			**x**		
11	**Medical Prescription and medication order and their interpretation**							**x**	**x**		**x**		
12	**General procedure of dispensing**							**x**		x	x		
13	**History of pharmacy-**					x							

Matrix II of pharmacy orientation course

National Academic Reference Standards (NARS)		Program key elements	Course key elements	Course contents	Sources	Teaching and learning methods			Weighting of assessment			
						Lecture	Practical session	Self learning	Written exam	Practical exam	Oral exam	Midterm exam
1-1-1	Demonstrate understanding of knowledge of pharmaceutical, biomedical, social, behavioral, administrative, and clinical sciences.	1.C1.2	1.C1.1	**Introduction to pharmacy:** -Pharmacy profession, pharmaceutics, pharmacists, pharmacy education, Pharmaceutical organizations	Student book	x			X			X
				Drug information sources (Pharmacopeias and Formularies)	Student book	x			X			X
			1.C1.2	**Pharmacy careers and role of pharmacists**	Student book Essential books	x			X			X
			1.C1.3	**Drug and medicine:** Definition of	Student book	x			X			x

				drugs, medicines and excipients, drug characteristics, sources, nomenclatures,	Essential books							
				Drug classifications	Student book	x			x			X
			1.C1.4	**Routes of drug administration**	Student book	x			x			
				Introduction to pharmaceutical dosage forms	Student book	x			x			
				Drug Dosage, Factors affecting dose	Student book	x			x			
			1.C1.5	**History of pharmacy**	Student book	x			x			
1-1-2	- Utilize the proper pharmaceutical and medical terms, abbreviations and symbols in pharmacy practice	1.C1.8	1.C1.6	**Medical and pharmaceutical terminology**	Student book	x			x			x
2-1-1	Perform responsibilities and authorities in compliance with the legal and professional structure and role of all members of	2.1.1	2.C1.1	**Medical Prescription and medication order and their interpretation**	Student book	x			x			
				General procedure of	Student book	x			x			

	the health care professional team. Dispense different pharmaceutical dosage forms safely and effectively with application			**dispensing**								
4-2-1	Demonstrate effective communication skills verbally, non-verbally, and in writing with professional health care team, patients, and communities	4.C2.1	4.C2.1	**Routes of drug administration** **Introduction to pharmaceutical dosage forms** **Medical and pharmaceutical terminology** **Medical Prescription and medication order and their interpretation** **General procedure of dispensing**	Student book	x			x			

Course Coordinator: Nagia Ahmed El-megrab
Head of Department: Nagia Ahmed El-megrab

تم مناقشة و اعتماد توصيف المقرر من مجلس القسم بتاريخ 28 / 10 /2019م

COURSE SPECIFICATIONS

Medicinal plants

First level –Semester 1
2019-2020

Course specification of Medicinal plants

University: Zagazig Faculty: Pharmacy

A- Course specifications:

Program (s) on which the course is given: Bachelor of Pharmacy (Pharm D)

Major or Minor element of programs: Major

Department offering the program: -------

Department offering the course: Pharmacognosy Department

Academic year Level: First level/ semester 1

Date of specification approval: September 2019

B- Basic information:

Title: Medicinal plants Code: PG 101

Credit Hours: ---

Lectures: 2hr/week

Practical: 1hr/week

Tutorials: ---

Total: 3 hrs/week

C- Professional information:

1-Overall aim of the course

On completion of the course, students will be able to:

- Illustrate the different sources of natural drugs and their productions.
- Describe different plant tissues and cells and their contents
- Illustrate microscopical and macroscopical characters and uses of medicinal leaves as well as identification of different active constituents and adulteration.
- Analyze and interpret experimental results, interact effectively

and work as a member of a team.

2- Key elements of Medicinal plants:

DOMAIN 1- FUNDAMENTAL KNOWLEDGE	
1-1- COMPETENCY: 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.C1.1.	Illustrate the different natural drugs and their productions.
1.C1.2.	State the different plant cells and their contents.
1.C1.3.	Describe morphological and histological characters of medicinal leaves.
1.C1.4	Identify different active constituents of medicinal uses of plant leaves.
1.C1.5	Outline adulteration of different medicinal leaves.
DOMAIN 2: PROFESSIONAL AND ETHICAL PRACTICE	
2-2- COMPETENCY: Standardize pharmaceutical materials, formulate and manufacture pharmaceutical products, and participate in systems for dispensing, storage, and distribution of medicines.	
2.C2.1.	Handle microscope efficiently and design protocols to examine medicinal plants.
2.C2.2.	Use microscope to differentiate between different plant tissues and plant cells.
2.C2.3.	Examine plant leaves in entire and powdered form.
2.C2.4	Determine the active constituents of the studied drugs qualitatively.
DOMAIN 4: PERSONAL PRACTICE	
4-1- COMPETENCY: Express leadership, time management, critical thinking, problem solving, independent and team working, creativity and entrepreneurial skills.	
4.C1.1.	Work effectively as part of a team.
4.C1.2	Manage time and plan for work.
4-2- COMPETENCY Effectively communicate verbally, non-verbally and in writing with	

individuals and communities.	
4.C2.1	Develop information technology skills

D- Contents:

Week No.	Lecture contents (2hr/week)	Practical session (1hr/week)
1	**- Introduction of pharmacognosy.**	**- Laboratory safety measures** **- Uses of microscopes**
2	**- Preparation and production of natural drugs.** **- Sources of natural drugs.**	**- Microscopical examination of starches.**
3	**- Continue: Preparation and production of natural drugs.**	**- Microscopical examination of dusting powders.**
4	**- Cell and Cell differentiation.**	**- Microscopical examination of different cells. Activity 1 (researches and reports on cell differentiation, cell contents and different stages of production of natural drugs like drying).**
5	**- Types and nature of plant cell contents.**	**- Examination of different cell content.**
6	**- Chemical tests for identification of different cell contents.**	**-Activity 1 discussion**
7	**Midterm Exam**	
8	Introduction to medicinal leaves	Practical examination for hyoscyamus leaf including morphology and histology for entire and powdered forms.
9	Morphological and histological studies for leaves containing alkaloids in entire and powdered forms, active constituents, uses and chemical test.	Practical examination for datura leaf including morphology and histology for entire and powdered forms **Activity 2 (researches and presentation on pharmaceutical preparations containing leaves)**

10	Morphological and histological studies for leaves containing glycosides in entire and powdered forms, active constituents, uses and chemical test.	Practical examination for belladona leaf including morphology and histology for entire and powdered forms.
11	Morphological and histological studies for leaves containing tannins , volatile oils and colouring matters in entire and powdered forms, active constituents, uses and chemical test.	Morpholigical and histological study of senna in entire form **Activity 2 discussion**
12	Rest of all leaves	**Field visit** to the experimental faculty farm
13	**- Revision.**	- Final practical exam.
14	**- Open discussion**	
15	**Final Exam**	

E- Teaching and Learning Methods:

- Lectures
- Practical sessions
- Activities (reports and presentations)
- Field visit

F- Student Assessment methods:

1- Written exams to assess: 1.C1.1, 1.C1.2, 1.C1.3, 1.C1.4 and 1.C1.5

2- Activity: 4.C1.1, 4.C1.2, 4.C2.1

3- Practical exams to assess: 2.C2.1, 2.C2.2, 2.C2.3 and 2.C2.4

4- Oral exam to assess: 1.C1.1, 1.C1.2, 1.C1.3, 1.C1.4 , 1.C1.5

Assessment schedule

Assessment (1): Midterm exam	Week 7
Assessment (2): Final written exam	Week 15
Assessment (3): Activity 1(**research and report on cell differentiation, cell contents and different stages of production of natural drugs like drying).**	Week 6
Assessment (4): Activity 2 **(research and presentation on pharmaceutical preparations**	Week 11

containing leaves)	
Assessment (5): Practical exams	Week 13
Assessment (6): Oral exams	Week 15

Weighting of Assessment

Assessment method	Marks	Percentage
Midterm exam	10	10%
Final written exam	50	50%
Activities 1&2	5	5%
Practical practice & exam	25	25%
Oral exam	10	10%
TOTAL	100	100%

G- Facilities required for teaching and learning:

• For lectures: Black (white) boards, data show, air conditioned classroom

• For practical: Well-equipped labs

- Chemicals e.g. Hcl, KoH, glycerin and phloroglucinol, starches (maize, wheat, rice, potatoe), dusting powders (talc, diatoms, chalk), and leaves powders; glassware, slides, covers, digital balances, flame and water baths

• Experimental faculty farm

H- List of References:

1- Course Notes: Student book of Medicinal plants approved by Pharmacognosy department (2019)

2- Essential Books:

- VAN WYK, Ben-Erik; WINK, Michael. Medicinal plants of the world. CABI, 2018.
- PETROVSKA, Biljana Bauer. Historical review of medicinal

plants' usage. Pharmacognosy reviews, 2012, 6.11: 1.

- LAWRENCE, George Hill Mathewson, et al. Taxonomy of vascular plants. Scientific Publishers, 2017.
- SIMPSON, Michael G. Plant systematics. Academic press, 2010.
- Textbook of Pharmacognosy, 5t'" Ed., T.E.Wallis (1967).
- Trease and Evans, Pharmacognosy, 15t'" Ed., Saunders Company, Nottingham,U.K., Willium Charles Evans (2003).
- The Cambridge Illustrated Glossary of Botanical Terms, M. Hickey and C. King, Cambridge Univ. press (2000).
- Plant Systematic, Judd, W. ; Kellogg, E.; Stevens P. and Campbell, C. , Sinauer Associates' Inc. (2000).
- Plant Anatomy, Fahan, A. , Pergamon Press (2002).
- Natural products as sources of new drugs over the last 25 years. Newman D.J and Cragg, G.M., Journal of Natural Products 70, 461-477 (2007).
- Chinese Herbal Medicine: Dan Bensky, Steven Clavey, Erich Stoger and Andrew Gamble Materia Medica, Third Edition (2004).

3- Recommended Books:

- MABEY, Richard. The Cabaret of Plants: Forty Thousand Years of Plant Life and the Human Imagination. WW Norton & Company, 2016.
- WIART, Christophe. Medicinal plants of China, Korea, and Japan: bioresources for tomorrow's drugs and cosmetics. CRC Press, 2012.
- "Encyclopedia of Common Natural Used in Food, Drugs and Cosmetics", Leung A.Y. and Faster (1980).

4- Periodicals and websites:

- American .J. Nat. Prod.
- Phytochemistry
- Planta Medica
- Fitoterapia
- www.Sciencedirect.Com

Course Coordinator : Prof. Samih El-Dahmy

Head of department : Prof. Dr. Amal Al-Gendy

Date: / 9 / 2019 تم مناقشة وإعتماد توصيف المقرر من مجلس القسم بتاريخ

Matrix I of Medicinal plants course														
Course Contents		Key elements of Medicinal plants course												
		1-1- COMPETENCY					2-2- COMPETENCY				4-1- COMPETENCY		4-2- COMPETENCY	
Lectures		1.C1.1	1.C1.2	1.C1.3	1.C1.4	1.C1.5	2.C2.1	2.C2.2	2.C2.3	2.C2.4	4.C1.1	4.C1.2	4.C2.1	
1	**Introduction of pharmacognosy.**	*												
2	**Preparation and production of natural drugs. Sources of natural drugs.**	*												
3	**Continue: Preparation and production of natural drugs.**	*												
4	**Cell and Cell differentiation.**		*											
5	**Types and nature of plant cell contents.**		*											
6	**Chemical tests for identification of different cell contents.**		*											
7	Introduction to medicinal leaves			*	*	*								
8	Morphological and histological studies for leaves containing alkaloids			*	*	*								
9	Morphological and histological studies for leaves containing glycosides			*	*	*								
	Practical session													
1	**- Laboratory safety measures Uses of microscopes**						*							
2	**Microscopical examination of starches.**							*						
3	**Microscopical examination of dusting powders.**							*						
4	**Microscopical examination of**							*			*			

	different cells. Activity 1 (researches and reports on cell differentiation, cell contents and different stages of production of natural drugs like drying).													
5	**Examination of different cell content.**							*						
6	**Activity 1 discussion**											*	*	*
7	Practical examination for hyoscyamus leaf including morphology and histology for entire and powdered forms.								*	*				
8	Practical examination for datura leaf including morphology and histology for entire and powdered forms **Activity 2 (researches and presentation on pharmaceutical preparations containing leaves)**								*	*	*			
9	Practical examination for belladona leaf including morphology and histology for entire and powdered forms.								*	*				
10	Morpholigical and histological study of senna in entire form **Activity 2 discussion**								*	*		*	*	*
11	**Field visit** to the experimental faculty farm								*		*			

Matrix II of Medicinal plants course

National Academic Reference Standards NARS		Program key elements	Course key elements	Course contents	Sources	Teaching and learning methods			Weighting of assessment			
						lecture	practical session	Activities (reports and presentations) and Field visit	written exam	practical exam & activity	oral exam	Midterm exam
1.1.1	Demonstrate understanding of knowledge of pharmaceutical, biomedical, social, behavioral, administrative, and clinical sciences.	1.C1.2	1.C1.1	**- Preparation and production of natural drugs**	Student book Essential books	*			*		*	*
			1.C1.2	**- Cell and Cell differentiation. - Types and nature of plant cell contents. - Chemical tests for identification of different cell contents**	Student book Essential books	*			*		*	*
			1.C1.3	Morphological and histological studies for plant leaves in entire and powdered forms, active constituents, uses and chemical test.	Student book Essential books	*			*		*	*
			1.C1.4			*			*		*	*
			1.C1.5			*			*		*	*
1.1.3	Integrate knowledge from fundamental sciences to handle, identify, extract,	1.C1.9	1.C1.2	**- Preparation and production of natural drugs**	Student book Essential books	*	*	*	*	*	*	*

	design, prepare, analyze, and assure quality of synthetic/ natural pharmaceutical materials/products.		1.C1.3 1.C1.4 1.C1.5	Morphological and histological studies for plant leaves in entire and powdered forms, active constituents, uses and chemical test.	Self learning							
2.2.1	Isolate, design, identify, synthesize, purify, analyze, and standardize synthetic/ natural pharmaceutical materials.	2.C2.1	2.C2.1	**Uses of microscopes**	Practical notes		*			*		
			2.C2.2	**Microscopical examination of starches, dusting powder and different types of cells**	Practical notes		*			*		
			2.C2.3	Morphological and histological studies for plant leaves in entire and powdered forms	Practical notes		*			*		
			2.C2.4	Morphological and histological studies for plant leaves in entire and powdered forms	Practical notes		*			*		
4.1.1	Demonstrate responsibility for team performance and peer evaluation of other team members, and express time management skills.	4.C1.1 4.C1.3	4.C1.1 4.C1.2	**Activity 1 (researches and reports on cell differentiation, cell contents and different stages of production of natural drugs like drying). Activity 2 (researches**	Self learning			*		*		
			4.2C.1					*		*		
								*		*		
								*		*		

4.2.2	Use contemporary technologies and media to demonstrate effective presentation skills.	4.C2.2		**and presentation on pharmaceutical preparations containing leaves)**								

Course Coordinator : Prof. Samih El-Dahmy

Head of department : Prof. Dr. Amal Al-Gendy

Date: / 9 / 2019 تم مناقشة وإعتماد توصيف المقرر من مجلس القسم بتاريخ

COURSE SPECIFICATIONS

Medical Terminology

First level –Semester 1
2019-2020

Course Specification of Medical Terminology MD101

University: **Zagazig** Faculty: **Pharmacy**

A- Course specifications:

Program(s) on which the course is given: **:** Bachelor of Pharmacy (Pharm D).
Major or Minor element of programs: Major

Department offering the program: -------

Department offering the course: Pharmacology and Toxicology department

Academic year/Level: Level 1, semester 1

Date of specification approval: October 2019

B- Basic information:

Title: Medical Terminology Code: MD101

Credit Hours: ---

Lectures : 1

Practical: ------

Tutorials: ---

Total: 1 hr

C- Professional information:

1-Overall Aims of the Course:

On completion of the course, the student will be able to:

- Illustrate the basics of medical terminology required in pharmaceutical studies
- Identify medical abbreviations, medical idioms, prefixes, suffixes and medical terms pertaining to major body systems

2-Key elements of Medical terminology course:

DOMAIN 1- FUNDAMENTAL KNOWLEDGE	
1-1- COMPETENCY 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.c1. 1	Outline the basic structure of a medical term
1.c1.2	Explain the level of organization of the human body
1.c1.3	Illustrate medical terms of each body system
1.C1.4	Recognize the standard abbreviations for the different systems of the human body and common pathological conditions and correlate them to their expanded forms.
DOMAIN 4: PERSONAL PRACTICE	
4-2- COMPETENCY Effectively communicate verbally, non-verbally and in writing with individuals and communities.	
4.c2. 1	Communicate effectively -by writing- with patients and other health care team

D- Contents:

Week No.	Lecture (1hr/week)
1	Analysis of term components
2	Fields of medical practice.
3	Medical records, patient records
4	Nervous system
5	Endocrine system
6	Integumentary system
7	Periodic exam
8	Musculoskeletal System
9	Respiratory Systems
10	Cardiovascular system
11	Blood system
12	Lymphatic and immune system
13	Eye
14	Revision
15	Final exam

E- Teaching and Learning Methods:

- Lectures

F- Student Assessment Methods:

Written exam to assess 1.c1. 1, 1.c1.2, 1.c1.3, 1.c1.4, 4.c2.1

Assessment schedule:

Assessment (1): Periodic exam	Week 7
Assessment (2): Final written exam	Week 15

Weighting of Assessment:

Assessment method	Marks	Percentage
Periodic exam	15	15%
Activity	10	10%
Final written exam	75	75%
TOTAL	100	100%

G- Facilities Required for Teaching and Learning:

- Black (white) board, computer and data show.

H- List of References:

1- Essential books: Text book reference:

Marjorie C. Willis (1996): Medical Terminology, the basic language of health care, first edition. Williams & Wilkins Press, Baltimore

3- Recommended books:

Andrew R. Hutton (2002): An introduction to medical terminology for health care, A self-teaching package, third edition. Churchill-Livingstone-Elsevier Press, Edinburgh

4- Periodicals and websites:

http.www.youtube.com

Course Coordinator: Prof.Dr. Rasha Abdel Ghany

Head of Department: Prof. Dr. Mona Fouad

Date: تم مناقشة و اعتماد توصيف المقرر من مجلس القسم بتاريخ / /2019 م

Matrix I of Medical Terminology course						
Course Contents		**Key elements**				
		DOMAIN 1- FUNDAMENTAL KNOWLEDGE				**DOMAIN 4: PERSONAL PRACTICE**
Lectures		1.c1. 1	1.c1.2	1.c1.3	1.C1.4	4.c2. 1
1	Analysis of term components	x			x	
2	Fields of medical practice	x			x	
3	Medical records, patient records	x			x	
4	Nervous system		x	x	x	x
5	Endocrine system		x	x	x	x
6	Integumentary system		x	x	x	x
7	Musculoskeletal System		x	x	x	x
8	Respiratory Systems		x	x	x	x
9	Cardiovascular system		x	x	x	x
10	Blood system		x	x	x	x
11	Lymphatic and immune system		x	x	x	x
13	Revision	x	x	x	x	x

Matrix II of Medical Terminology course							
National Academic Reference Standards (NARS)		Program Domain competency	Course key element	Course contents	Sources	Teaching and learning methods	Method of assessment
						Lecture	Written exam
1-1-1	Demonstrate understanding of knowledge of pharmaceutical, biomedical, social, behavioral, administrative, and clinical sciences.	1.C1.2	1.C1.1 1.C1.2	Fields of medical practice	Text book	x	x
				Medical records, patient records	Text book	x	x
				Analysis of term components	Text book	x	x
1-1-2	Utilize the proper pharmaceutical and medical terms, abbreviations and symbols in pharmacy practice	1.c1.8	1.c1.3 1.c1.4	Nervous system	Text book	x	x
				Endocrine system	Text book	x	x
				Integumentary system	Text book	x	x
				Musculoskeletal System	Text book	x	x
				Respiratory Systems	Text book	x	x
				Cardiovascular system	Text book	x	x

				Blood system	Text book	x	x
				Lymphatic and immune system	Text book	x	x
					Text book	x	x
4-2-1	Demonstrate effective communication skills verbally, non-verbally, and in writing with professional health care team, patients, and communities	4.c2.1	4.c2.1	Analysis of term components, Fields of medical practice, Medical records, patient records, Nervous, Endocrine, Integumentary, Musculoskeletal, Respiratory, Cardiovascular, Blood, Lymphatic and immune systems	Text book	x	x
				Nervous, Endocrine, Integumentary, Musculoskeletal, Respiratory, Cardiovascular, Blood, Lymphatic and immune systems			

COURSE SPECIFICATIONS

Information Technology

First level –Semester 1
2019-2020

Course Specification of Information Technology

University: Zagazig Faculty: Pharmacy

A- Course specifications:

Program(s) on which the course is given: Bachelor of Pharmacy (PharmD)

Major or Minor element of programs: Major

Department offering the program: -------

Department offering the course: Faculty of engineering, computer science department

Academic year/ Level: First level /Semester 1

Date of specification approval: Sep. 2019

B- Basic information:

Title: Information Technology Code: NP 101

Credit Hours: ---

Lectures : 1hr/week

Practical: 1 hr/week

Tutorials: ---

Total: 2 hrs/week

C- Professional information:

1-Overall Aims of the Course:

On completion of the course, students will be able to recognize the concept of information technology including: number systems and data representation, computer system components: hardware & software, storage and input/output systems, Operating systems and Utility Systems, software applications. Also it gives an overview about computer networks and internet: data communication, transmission modes, transmission media, computer networks, internet protocol, and internet services. It practices some computer applications in the laboratory such as Internet Access, word

processing, excel and power point. It gives students a practical experience on developing projects related to the specialty of each faculty.

2- Key elements of information technology:

DOMAIN 1- FUNDAMENTAL KNOWLEDGE	
1-1- COMPETENCY 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.C1.1	Define different terminologies related to computer industry, its uses and generations
1.C1.2	Describe computer hardware and software
1.C1.3	Illustrate different methods of data representation
1.C1.4	Demonstrate advantages of computer networks, uses, types and structure
DOMAIN 4: PERSONAL PRACTICE	
4-1- COMPETENCY Express leadership, time management, critical thinking, problem solving, independent and team working, creativity and entrepreneurial skills.	
4.C1.1	Deliver different assignments within due time
4-2- COMPETENCY Effectively communicate verbally, non-verbally and in writing with individuals and communities	
4.C2.1	Demonstrate good IT skills including internet search and data presentation
4.C2.2	Use word, excel and power point programs effectively

D- Contents:

Week No.	Lecture (1 hr/week)	Practical session (1 hr/week)
1	Course orientation Chapter 1: introduction to computers Computer definition Computer uses Computer industry	Microsoft word (Basics)
2	Chapter 1: introduction to computers (Cont.) Computer generations Classification of computers	Microsoft word
3	Chapter 2: computer hardware	MS-Excel (Basics)
4	Chapter 3: computer software Operating systems GUI components	MS-Excel (charts)
5	Chapter 3: computer software (Cont.) Utilities programs	Internet search
6	Chapter 3: computer software (Cont.) Application programs	Power point
7	**Midterm exam**	
8	Chapter 4: Data representation How computers store data Number representation	Assignment 1: Word: Design your CV
9	Chapter 4: Data representation (Cont.) Character representation How the computer works	Assignment 2: Word: Table Design
10	Chapter 4: Data representation (Cont.) Introduction to high levels languages	Assignment 3: Excel
11	Chapter 5: introduction to computers networks Introduction advantages	Assignment 4: Excel charts
12	Chapter 5: introduction to computers networks (Cont.) Uses of computer networks Types of computer networks	Assignment 5: internet search
13	Chapter 5: introduction to computers networks (Cont.) Structure of computer networks Basic definitions	Assignment 6: powerpoint
14	-Revision	**Practical exam**
15	**Final exam**	

E- Teaching and Learning Methods:

- Lectures
- Computer applications
- Solving different assignments

F- Student Assessment Methods:

1- Written exams to assess 1.C1.1, 1.C1.2, 1.C1.3, 1.C1.4

2- Assignments to assess 4.C1.1, 4.C2.2

3- Practical exam to assess 4.C2.1, 4.C2.2

Assessment schedule:

Assessment (1): Final Written exam	Week 15
Assessment (2): assignments	Week 8-13
Assessment (3): Practical exams	Week 14
Assessment (4): midterm exam	Week 7

Weighting of Assessment:

Assessment method	Marks	Percentage
Final Written exam	60	60%
Midterm exam	10	10%
assignments	5	5%
Practical exam	25	25%
TOTAL	100	100%

G- Facilities Required for Teaching and Learning:

- Black (white) board, Data show, computer lab

H- List of References:

1- Course Notes: Student book of Information Technology approved by Computer science department 2019.

2- Essential Books:

Sharma V. Essentials Of Information Technology As Per Cce Guidelines Vol 2, Pb, Dhanpat Rai & Co.(P) Ltd-Delhi (2015)

3- Recommended books

"Information Technology Essentials: Basic Foundations for Information Technology Professionals" by Eric Frick, 2011

Course Coordinator: Dr. Khaled Hosni

Matrix I of Information Technology course

Course Contents		Key elements of information technology						
		DOMAIN 1- FUNDAMENTAL KNOWLEDGE				DOMAIN 4: PERSONAL PRACTICE		
Lectures		1.C1.1	1.C1.2	1.C1.3	1.C1.4	4.C1.1	4.C2.1	4.C2.2
1	Course orientation Chapter 1: introduction to computers Computer definition Computer uses Computer industry	x						
2	Chapter 1: introduction to computers (Cont.) Computer generations Classification of computers	x						
3	Chapter 2: computer hardware		x					
4	Chapter 3: computer software Operating systems GUI components		x					
5	Chapter 3: computer software (Cont.) Utilities programs		x				x	x
6	Chapter 3: computer software (Cont.) Application programs		x				x	x

7	Chapter 4: Data representation How computers store data Number representation			x			x	
8	Chapter 4: Data representation (Cont.) Character representation How the computer works			x			X	
9	Chapter 4: Data representation (Cont.) Introduction to high levels languages			x				
10	Chapter 5: introduction to computers networks Introduction advantages				X			
11	Chapter 5: introduction to computers networks (Cont.) Uses of computer networks Types of computer networks				X			
12	Chapter 5: introduction to computers networks (Cont.) Structure of computer networks Basic definitions	x			x			
Practical sessions								
1	Microsoft word (Basics) Microsoft word MS-Excel (Basics) MS-Excel (charts)		x	x			x	x

	Internet search Power point							
2	Assignment 1: Word: Design your CV Assignment 2: Word: Table Design Assignment 3: Excel Assignment 4: Excel charts Assignment 5: internet search Assignment 6: powerpoint		x	x		x	x	x

Matrix II of information technology course

National Academic Reference Standards (NARS)		Program key elements	Course key elements	Course contents	Sources	Teaching and learning methods			Method of assessment		
						lecture	practical session	Course assignments	written exam	practical exam	Course assignments
1.1.1	Demonstrate understanding of knowledge of pharmaceutical, biomedical, social, behavioral, administrative, and clinical sciences.	1.C1.1	1.C1.1	**Chapter 1: introduction to computers** Computer definition Computer uses Computer industry Computer generations Classification of computers	student book	x			x		
			1.C1.2	**Chapter 2: computer hardware**	student book	x			x		
				Chapter 3: computer software Operating systems GUI components Utilities programs Application programs	student book	x			x		

			1.C1.3	**Chapter 4: Data representation** How computers store data Number representation Character representation How the computer works Introduction to high levels languages	student book, essential books	x			x		
			1.C1.4	**Chapter 5: introduction to computers networks** Introduction advantages Uses of computer networks Types of computer networks Structure of computer networks Basic definitions	student book	x			x		

4.1.1	Demonstrate responsibility for team performance and peer evaluation of other team members, and express time management skills	4.C1.3	4.C1.1	Assignment 1: Word: Design your CV Assignment 2: Word: Table Design Assignment 3: Excel Assignment 4: Excel charts Assignment 5: internet search Assignment 6: powerpoint	Practical notes			x			x
4.2.2	Use contemporary technologies and media to demonstrate effective presentation skills.	4.C2.2	4.C2.1 4.C2.2	Microsoft word (Basics) Microsoft word MS-Excel (Basics) MS-Excel (charts) Internet search Power point Assignment 1: Word: Design your CV Assignment 2: Word: Table Design Assignment 3: Excel Assignment 4: Excel charts Assignment 5: internet search Assignment 6: powerpoint	Practical notes		x	x		x	x

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Course Coordinator: Dr. Khaled Hosni

COURSE SPECIFICATIONS

Mathematics
First level –Semester 1
2019-2020

Course Specification of Mathematics

University: Zagazig Faculty: Pharmacy

A- Course specifications:

Program(s) on which the course is given: Bachelor of Pharmacy (PharmD)

Major or Minor element of programs: Minor

Department offering the program: -------

Department offering the course: Faculty of science, Mathematics department

Academic year/ Level: First level /Semester 1

Date of specification approval: Sep. 2019

B- Basic information:

Title: Mathematics Code: NP 102

Credit Hours: ---

Lectures : 1hr/week

Practical: 0 hr/week

Tutorials: ---

Total: 1 hr/week

C- Professional information:

1-Overall Aims of the Course:

On completion of the course, students will be able to recognize definition of Number, Variable, Function, composition of functions, different types of functions. Definition of Limits of one variable functions, continuity, differentiability and applications of these concepts. Definition of the definite and indefinite integrals. The fundamental theorem of calculus and applications of definite integral. Determined the area arc length, volumes and surfaces of revolutions. Differentiation and integrations of exponential, logarithmic, trigonometric and transcendental functions.

Techniques of integrations, trigonometric and transcendental functions. Techniques of integrations. Matrix Algebra and system of linear equations

2- Key elements of Mathematics:

DOMAIN 1- FUNDAMENTAL KNOWLEDGE	
1-1- COMPETENCY 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.C1.1	Define Number, Variable, Function, Limits of one variable functions, continuity, differentiability as well as definite and indefinite integrals
1.C1.2	Describe different types of functions, techniques of integration, matrices, partial fractions as well as applications of derivatives and definite integral
DOMAIN 4: PERSONAL PRACTICE	
4-1- COMPETENCY Express leadership, time management, critical thinking, problem solving, independent and team working, creativity and entrepreneurial skills.	
4.C1.1	Find effective solutions for a given problem

D- Contents:

Week No.	Lecture (1 hr/week)
1	Course orientation **Numbers and Variables- Functions of one variable operations on the functions**
2	**matrices**
3	**Matrices (Cont.)**
4	**partial fractions**
5	**derivative of functions:** **derivative of exponential functions, natural logarithm functions, Trigonometric functions, derivative of inverse Trigonometric functions, Higher-order derivatives,**
6	**derivative of functions: (Cont.)**
7. Midterm exam	
8	**Application of derivatives:** **increasing functions, decreasing function, concavity and inflection points, relative maximum, relative minimum, absolute maximum, absolute minimum, critical pints,**
9	**Application of derivatives: (cont.)**
10	**Integration, indefinite integral, rules of integration, Techniques of integration**
11	**Integration, indefinite integral, rules of integration, Techniques of integration (cont.)**
12	**Integration applications** **(Area – Arc length- Volumes)**
13	**Integration applications (Cont.)**
14	-Revision
15	**Final exam**

E- Teaching and Learning Methods:

- Lectures
- Problem Solving

F- Student Assessment Methods:

1- Written exams to assess 1.C1.1, 1.C1.2, 4.C1.1

Assessment schedule:

Assessment (1): Final Written exam	Week 15
Assessment (2): midterm exam	Week 7

Weighting of Assessment:

Assessment method	Marks	Percentage
Final Written exam	75	75%
Midterm exam & activity	25	25%
TOTAL	100	100%

G- Facilities Required for Teaching and Learning:

- Black (white) board, Data show

H- List of References:

1- Course Notes: Student book of Mathematics 2019.

2- Essential Books:

Dumas and McCarthy, Transition to Higher Mathematics: Structure and Proof - Second Edition.

3- Recommended books

Loe Moser, An Introduction to the Theory of Numbers, The Trillia Group.

Course Coordinator:

Prof. Yasser abd elaziz

Matrix I of Mathematics course

Course Contents		Key elements of mathematics		
		DOMAIN 1- FUNDAMENTAL KNOWLEDGE		DOMAIN 4: PERSONAL PRACTICE
Lectures		1.C1.1	1.C1.2	4.C1.1
1	Numbers and Variables- Functions of one variable operations on the functions	X	X	
2	matrices	X	X	X
3		X	X	X
4	partial fractions	X	X	X
5	derivative of functions:	X	X	X
6	derivative of exponential functions, natural logarithm functions, Trigonometric functions, derivative of inverse Trigonometric functions, Higher-order derivatives,	X	X	X
7	Midterm exam			
8	Application of derivatives: increasing functions, decreasing function, concavity and inflection points, relative		X	x
9	maximum, relative minimum, absolute maximum, absolute minimum, critical pints,		X	X
10		X	X	X
11	Integration, indefinite integral, rules of integration, Techniques of integration	x	X	X
12			x	X
13	Integration applications (Area – Arc length- Volumes)		x	x

xxx

Matrix II of Mathematics course

National Academic Reference Standards (NARS)		Program key elements	Course key elements	Course contents	Sources	Teaching and learning methods			Method of assessment		
						lecture	practical session	Course assignments	written exam	practical exam	Course assignments
1.1.1	Demonstrate understanding of knowledge of pharmaceutical, biomedical, social, behavioral, administrative, and clinical sciences.	1.C1.1	1.C1.1	Numbers and Variables- Functions of one variable operations on the functions matrices partial fractions derivative of functions: derivative of exponential functions, natural logarithm functions, Trigonometric functions, derivative of inverse Trigonometric functions, Higher-order derivatives, Application of derivatives: increasing functions, decreasing function, concavity and inflection points,	student book	x			x		
			1.C1.2		student book	x			x		
					student book	x			x		

				relative maximum, relative minimum, absolute maximum, absolute minimum, critical pints, Integration, indefinite integral, rules of integration, Techniques of integration Integration applications (Area – Arc length- Volumes)							
4.1.2	Retrieve and critically analyze information, identify and solve problems, and work autonomously and effectively in a team.	4.C1.5	4.C1.1	Numbers and Variables- Functions of one variable operations on the functions matrices partial fractions derivative of functions: derivative of exponential functions, natural logarithm functions, Trigonometric functions, derivative of inverse Trigonometric functions, Higher-	Student book	x			x		

				order derivatives, Application of derivatives: increasing functions, decreasing function, concavity and inflection points, relative maximum, relative minimum, absolute maximum, absolute minimum, critical pints, Integration, indefinite integral, rules of integration, Techniques of integration Integration applications (Area – Arc length- Volumes)							

Course Coordinator: **Prof. Yasser abd elaziz**

COURSE SPECIFICATIONS

English language I

First level –Semester 1

2019-2020

Course specification of English Language 1

University: Zagazig Faculty: Pharmacy

A- Course specifications:

Program(s) on which the course is given: Bachelor of Pharmacy (pharmD)

Major or Minor element of programs: Major

Department offering the program: -------

Department offering the course: English Department/ Faculty of Education

Academic year/ Level: First level /semester 1

Date of specification approval: September 2019

B- Basic information:

Title: English language-1 Code: UR 101

Credit Hours: ---

Lectures: 1 hr/week

Practical: ---

Tutorials: ---

Total: 1 hr/week

C- Professional information:

1-Overall Aims of the Course:

On completion of the course, students will be able to recognize the fundamental knowledge of the English language in the following areas: grammar, reading, writing, listening, and speaking.

2-Key elements of English language 1:

DOMAIN 1- FUNDAMENTAL KNOWLEDGE	
1-1- COMPETENCY 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.C1.1	Define general terms and use vocabulary items in meaningful sentences
1.C1.2	Outline the structures of English language (e.g. English Tenses; Interrogative; Punctuation...etc) correctly
1..C1.3	Recognize the appropriate uses of Affixes (prefixes; suffix; combining form) as well as antonyms and synonyms
1.C1.4	Enumerate vocabulary items related to everyday life
1.C1.5	Identify the role of contextual references
1.C1.6	Distinguish the different meanings of homonymic words
DOMAIN 4: PERSONAL PRACTICE	
4-1- COMPETENCY Express leadership, time management, critical thinking, problem solving, independent and team working, creativity and entrepreneurial skills.	
4.C1.1	Deliver assignments in due time
4.C1.2	Develop critical thinking and problem solving skills
4-2- COMPETENCY Effectively communicate verbally, non-verbally and in writing with individuals and communities.	
4.C2.1	Answer oral questions using accurate and appropriate scientific English
4.C2.2	Talk about scientific topics accurately and fluently
4.C2.3	Read aloud a given scientific text coherently with ease and understanding.
4.C2.4	Listen to oral scientific and general English with recognition of the main idea
4.C2.5	Present authentic scientific and General English materials relevant to given topics
4.C2.6	Speak scientific English correctly and appropriately for academic and general purposes

D- Contents:

Week No.	Lecture (1hr/week)
1	Unit 1: pharmacy apps: a new frontier on the digital landscape Oral communication activities Reading activities
2	Unit 1: pharmacy apps: a new frontier on the digital landscape Grammar: present simple &present continuous Writing activities
3	Unit 2:The changing role of the pharmacist in the 21st century Oral communication activities Reading activities
4	Unit 2:The changing role of the pharmacist in the 21st century Grammar: present perfect & present perfect continuous & writing activities
5	Unit 3:Online pharmacy Oral communication activities Reading activities
6	Unit 3:Online pharmacy Grammar: past simple, past continuous, writing activities
7	Midterm exam
8	Unit 4:Integrated technology is the key to success in hospital pharmacies Oral communication activities Reading activities
9	Unit 4:Integrated technology is the key to success in hospital pharmacies Grammar: past perfect, past perfect continuous, writing activities
10	Unit 5:Pharmacy informatics Oral communication activities Reading activities

11	Unit 5:Pharmacy informatics Grammar: future simple, future continuous, writing activities
12	Unit 6:The Future of Pharmacy Oral communication activities Reading activities
13	Unit 6:The Future of Pharmacy Grammar: future perfect, future perfect continuous, writing activities
14	Unit 7:Pharmacy Terms & abbreviations Grammar: interrogative, punctuation, writing activities
15	Final exam

E- Teaching and Learning Methods:

- Lectures
- Self learning (exercises….)
- Group discussion
- Blended learning

F- Student Assessment Methods:

Written exam to assess 1.C1.1, 1.C1.2, 1.C1.3, 1.C1.4, 1.C1.5, 1.C1.6, 4.C2.1

Assignments to assess 4.C1.1, 4.C1.2, 4.C2.2, 4.C2.3, 4.C2.4, 4.C2.5, 4.C2.6

Assessment schedule:

Assessment (1): Midterm exam	Week 7
Assessment (1): Written exams	Week 15

Weighting of Assessment:

Assessment method	Marks	Percentage
Midterm exam &	25	25%

assignments		
Final Written exam	75	75%
TOTAL	100	100%

G- Facilities Required for Teaching and Learning:

- Black (white) board, Data show.

H- List of References:

1- Course Notes: Student book of English approved by English department 2019

2- Essential Books (Text Books)

• Miriam Diaz-Gilbert (2008) English for Pharmacy Writing and Oral Communication: 1st Edition, LWW

• Buchler M., Jaehnig K., Matzig G. and Weindler T. (2010) English for the Pharmaceutical Industry, Oxford University Press

• English for science and technology: a handbook for nonnative speaker: Thomas N. Huckin, Leslie A. Olsen; McGraw-Hill, 1983 - Language Arts & Disciplines

• Speaking English for Medical Purposes; by Kenneth Beare

• English for Science and Technology; by JEAN PARKINSON

• English for Science and Technology; By Brian Paltridge2 and Sue Starfield 3 Jean Parkinson; Published Online: 13 SEP 2012

• English for Science and Technolog; by Thomas Orr; Published Online: 5 NOV 2012

• English for Science and Technology : A Discourse Approach (Cambridge Language Teaching Library) by Louis Trimble, Michael Swan (Editor), Paperback: 192 pages, Publisher: Cambridge University Press

• Science, Medicine, and Technology: English Grammar and Technical Writing by Peter Antony Master, Paperback: 320 pages, Publisher: Prentice Hall

• Using English in Science and Technology; by RAM KRISHNA SINGH

D. Periodicals, Journals, Web Sites, etc

Medical for Pharmacist
http://www.englishmed.com/pharmacists/
Medical English for Pharmacist
http://www.englishmed.com/pharmacists/
Learn English Vocabulary for the Pharmacy
https://www.canlearnenglish.com/english-at-the-pharmacy/
English at the Pharmacy
https://www.canlearnenglish.com/english-at-the-pharmacy/
English for Pharmacist
https://competencyrx.com/images/pdf/English_for_Pharmacist.pdf
Medical English
https://www.medicalenglish.com/
English as a Second Language
https://learn.saylor.org/course/index.php?categoryid=29&utm_source=google&utm_medium=keyword&utm_campaign=google_keyword_ad_esl
The English Journal
http://www.ncte.org/journals/ej
TESOL Quarterly
http://www.tesol.org/read-and-publish/journals/tesol-quarterly
ESL Journal
http://www.esljournal.org/
ESP journal
http://www.esp-world.info/
International Dental Journal
http://www.fdiworlddental.org/resources/journals/international-dental-journal

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Course Coordinator: Dr. Ahmed Abdel Salam Edries

Date: /9/2019

Matrix I of English language 1 course

Course Contents		Key elements of English 1 course													
		DOMAIN1: Knowledge and understanding						DOMAIN 4: PERSONAL PRACTICE							
		1.C1.1	1.C1.2	1.C1.3	1.C1.4	1.C1.5	1.C1.6	4.C1.1	4.C1.2	4.C2.1	4.C2.2	4.C2.3	4.C2.4	4.C2.5	4.C2.6
1	Unit 1: pharmacy apps: a new frontier on the digital landscape Oral communication activities Reading activities	x			**x**	**x**	**x**			**x**	**x**	**x**	**x**		**x**
2	Unit 1: pharmacy apps: a new frontier on the digital landscape Grammar: present simple &present continuous Writing activities		x	**x**				**x**	**x**					**x**	
3	Unit 2:The changing role of the pharmacist in the 21st century Oral communication activities Reading activities	**x**			**x**	**x**	**x**			x	x	x	x		x
4	Unit 2:The changing role of the pharmacist in the 21st century Grammar: present perfect & present perfect continuous & writing activities		**x**	**x**				**x**	**x**					x	
5	Unit 3:Online pharmacy Oral communication activities Reading activities	x			**x**	**x**	**x**			x	x	x	x		x
6	Unit 3:Online pharmacy Grammar: past simple, past continuous, writing activities		**x**	**x**				**x**	**x**					x	
7	Unit 4:Integrated technology is the key to success in hospital pharmacies	x			**x**	**x**	**x**			x	x	x	x		x

	Oral communication activities Reading activities														
8	Unit 4:Integrated technology is the key to success in hospital pharmacies Grammar: past perfect, past perfect continuous, writing activities		x	**x**				**x**	**x**					**x**	
9	Unit 5:Pharmacy informatics Oral communication activities Reading activities	x			x	x	x			x	**x**	**x**	**x**		**x**
10	Unit 5:Pharmacy informatics Grammar: future simple, future continuous, writing activities		**x**	x				x	x					**x**	
11	Unit 6:The Future of Pharmacy Oral communication activities Reading activities	**x**			x	x	x			**x**	**x**	**x**			
12	Unit 6:The Future of Pharmacy Grammar: future perfect, future perfect continuous, writing activities		**x**	x				x	x					**x**	
13	Unit 7:Pharmacy Terms & abbreviations Grammar: interrogative, punctuation, writing activities		**x**	x				x	x					**x**	

Matrix II of English language 1 course								
National Academic Reference Standards NARS		**Program key elements**	**Course key elements**	**Course contents**	**Sources**	**Teaching and learning methods**		**Method of assessment**
						Lecture	Self learning assignments	Written exam
1-1-1-	Demonstrate understanding of knowledge of pharmaceutical, biomedical, social, behavioral, administrative, and clinical sciences.	1.C1.1	1.C1.1 1.C1.4 1.C1.5 1.C1.6	Unit 1: pharmacy apps: a new frontier on the digital landscape Oral communication activities Reading activities Unit 2:The changing role of the pharmacist in the 21st century Oral communication activities Reading activities Unit 3:Online pharmacy Oral communication activities Reading activities Unit 4:Integrated technology is the key to success in hospital pharmacies Oral communication activities Reading activities	Student book	x		x

				Unit 5:Pharmacy informatics Oral communication activities Reading activities Unit 6:The Future of Pharmacy Oral communication activities Reading activities				
4.1.1	Demonstrate responsibility for team performance and peer evaluation of other team members, and express time management skills.	4.C1.3	1.C1.2 1.C1.3 4.C1.1	Unit 1: pharmacy apps: a new frontier on the digital landscape Grammar: present simple &present continuous Writing activities Unit 2:The changing role of the pharmacist in the 21st century Grammar: present perfect & present perfect continuous & writing activities Unit 3:Online pharmacy Grammar: past simple, past continuous, writing activities Unit 4:Integrated technology is the key to success in hospital pharmacies	Student book Student book		x	x

4.1.2	Retrieve and critically analyze information, identify and solve problems, and work autonomously and effectively in a team.	4.C1.5	4.C1.2	Grammar: past perfect, past perfect continuous, writing activities Unit 5:Pharmacy informatics Grammar: future simple, future continuous, writing activities Unit 6:The Future of Pharmacy Grammar: future perfect, future perfect continuous, writing activities Unit 7:Pharmacy Terms & abbreviations Grammar: interrogative, punctuation, writing activities	Recommended book		x	x
4.2.1	Demonstrate effective communication skills verbally, non-verbally, and in writing with professional health care team, patients, and communities.	4.C2.1	4.C2.1 4.C2.2 4.C2.3 4.C2.4 4.C2.6	Unit 1: pharmacy apps: a new frontier on the digital landscape Oral communication activities Reading activities Unit 2:The changing role of the pharmacist in the 21st century Oral communication activities	Student book	x		x

				Reading activities Unit 3:Online pharmacy Oral communication activities Reading activities Unit 4:Integrated technology is the key to success in hospital pharmacies Oral communication activities Reading activities Unit 5:Pharmacy informatics Oral communication activities Reading activities Unit 6:The Future of Pharmacy Oral communication activities Reading activities		x		x
4.2.2	Use contemporary technologies and media to demonstrate effective presentation skills.	4.C2.2	4.C2.5	Unit 1: pharmacy apps: a new frontier on the digital landscape Grammar: present simple &present continuous Writing activities Unit 2:The changing role of the pharmacist in the 21st century Grammar: present perfect & present perfect continuous &	Student book, essential book		x	x

				writing activities Unit 3:Online pharmacy Grammar: past simple, past continuous, writing activities Unit 4:Integrated technology is the key to success in hospital pharmacies Grammar: past perfect, past perfect continuous, writing activities Unit 5:Pharmacy informatics Grammar: future simple, future continuous, writing activities Unit 6:The Future of Pharmacy Grammar: future perfect, future perfect continuous, writing activities Unit 7:Pharmacy Terms & abbreviations Grammar: interrogative, punctuation, writing activities				

Course Coordinators: Dr. Ahmed Abdel Salam Edries **Date:** **/9/2019**

COURSE SPECIFICATIONS

Human Rights and Fighting of Corruption

First level –Semester 1
2019-2020

توصيف مقرر حقوق الإنسان و مكافحة الفساد

أ- مواصفات المقرر:

البرنامج أو البرامج التى يقدم من خلالها المقرر: بكالوريوس الصيدلة- فارم دي

المقرر يمثل عنصرا رئيسيا أو ثانويا بالنسبة للبرامج: ثانوياً

القسم العلمي المسئول عن البرنامج: ----------

المسئول عن تدريس المقرر: أ. د.محمد محمد بركة د. ياسمين أحمد شرف

السنة الدراسية: الفرقة الأولى – التيرم الأول.

تاريخ اعتماد التوصيف:

(ب) البيانات الأساسية:

العنوان : حقوق الإنسان و مكافحة الفساد الكود : **UR 102**

الساعات المعتمدة : ساعة واحدة معتمدة

المحاضرات : ساعة واحدة أسبوعيا

العملي: ---

الدروس العملية : ---

المجموع : ساعة واحدة في الأسبوع

(ج) البيانات المهنية:

1) الأهداف العامة للمقرر:

عند إتمام المقرر سوف يكون الطلاب قادرين على

- معرفة أهمية حقوق الإنسان وواجباته نحو المجتمع وكيفية حماية تلك الحقوق.
- معرفة الفساد وانواعه واسبابه واثاره وكيفية مجابهة الفساد

2) النتائج التعليمية المستهدفة لمقرر حقوق الإنسان و مكافحة الفساد:

المجال 1 – المعرفة الاساسية	
مهارة 1-1 دمج المعرفة من العلوم الصيدلانية والسريرية الأساسية والتطبيقية لتوحيد المواد وصياغة المنتجات وتصنيعها وتقديم رعاية تركز على السكان والمرضى	
يعرف المقصود بحقوق الإنسان ومصدرها وأنواع حقوق الإنسان الفردية والجماعية وكيفية حمايتها	1.C1.1
يفهم الفساد وانواعه واسبابه واثاره	1.C1.2
يعرف كيفية مجابهة الفساد ودور الاجهزة الرقابية في مجابهة الفساد داخل الدولة	1.C1.3

د- المحتويات:

الأسبوع	المحاضرة (1 ساعة/ الأسبوع)
1	- مقدمة -التطور التاريخي لفكرة حقوق الإنسان
2	- التعريف بحقوق الإنسان - خصائص و مبادئ حقوق الإنسان
3	مصادر حقوق الإنسان
4	أنواع حقوق الإنسان الفردية والجماعية
5	- مكافحة الفساد -مفهوم الفساد -أنواع وصور الفساد
6	- أسبابو اثار الفساد
7	الامتحان نصف الفصل
8	- وسائل مجابهة الفساد الإطار التشريعي لمكافحة الفساد
9	- دور الأجهزة الرقابية الوطنية في مكافحة الفساد الإداري -هيئة الرقابة الإدارية ودورها في مكافحة الفساد الإداري.
10	- الجهاز المركزي للمحاسبات ودوره في مكافحة الفساد الإداري
11	- الجهاز المركزي للتنظيم والإدارة ودوره في مكافحة الفساد الإداري
12	- هيئة النيابة الإدارية ودورها في مكافحة الفساد الإداري
13	- اللجان الأخرى المعنية بمكافحة للفساد فجمهورية مصر العربية:
14	- مراجعة عامة و مناقشة حره
15	- الامتحان النهائي

هـ- أساليب التعليم و التعلم:

- المحاضرة
- المناقشة
- **المقرر الكتروني Internet**

و-أساليب تقييم الطلبة:

1- **الامتحان التحريري يقيم: 1.1.1 و 1.1.2 و 1.1.3**
2- **الامتحان نصف الفصل يقيم: 1.1.1 و 1.1.2 و 1.1.3**

الجدول الزمني التقييم:

تقييم (1): امتحان نصف الفصل	**الأسبوع السابع**
تقييم (2): الامتحان التحريري	**الأسبوع الخامس عشر**

ترجيح التقييم:

طريقة التقييم	الدرجات	النسب المئوية
الامتحان التحريري	75	%75
امتحان نصف الفصل	25	%25
الإجمالي	100	%100

ز- التسهيلات اللازمة للتعليم و التعلم:

1- للمحاضرات: اللوحات (البيضاء) و السوداء و جهاز العرض المرئي (داتا شو) والانترنت.

ي- قائمة المراجع:

1-الانترنت : المقرر الالكتروني

2- كتب مقترحة

القانون الدولي الإنساني

4- مجلات دورية، مواقع انترنت، الخ

مجلات حقوق الإنسان

منسق المقرر: د. ياسمين أحمد شرف
التاريخ:

مصفوفة 1 مقرر حقوق الإنسان و مكافحة الفساد						
محتويات المقرر		نتائج التعلم المنشودة لمادة حقوق الإنسان و مكافحة الفساد				
		مهارة 1-1				
		1.1.1	1.1.2	1.1.3		
1	- مقدمة -التطور التاريخي لفكرة حقوق الإنسان	x				
2	- التعريف بحقوق الإنسان - خصائص و مبادئ حقوق الإنسان	x				
3	مصادر حقوق الإنسان	x				
4	أنواع حقوق الإنسان الفردية والجماعية	x				
5	- مكافحة الفساد(مفهوم الفساد-أنواع وصور الفساد)		x			
6	- أسباب الفساد		x			
7	- آثار الفساد		x			
8	- وسائل مجابهة الفساد(الإطار التشريعي لمكافحة الفساد)			x		
9	- دور الأجهزة الرقابية الوطنية في مكافحة الفساد الإداري -هيئة الرقابة الإدارية ودورها في مكافحة الفساد الإداري.			x		
10	- الجهاز المركزي للمحاسبات ودوره في مكافحة الفساد الإداري			x		
11	- الجهاز المركزي للتنظيم والإدارة ودوره في مكافحة الفساد الإداري			x		
12	- هيئة النيابة الإدارية ودورها في مكافحة الفساد الإداري			x		
13	- اللجان الأخرى المعنية بمكافحة للفساد فجمهورية مصر العربية:			x		
14	مراجعة عامة و مناقشة حره	x	x	x		

مصفوفة 2 مقرر حقوق الإنسان و مكافحة الفساد

المعايير الأكاديمية المرجعية القومية (NARS)		مفاتيح العناصر للبرنامج	مفاتيح العناصر للمقرر	محتويات المقرر	المصدر	أساليب التعليم و التعلم			أسلوب التقييم
						المحاضرة	الدروس العملية	التعلم الذاتي	الامتحان التحريري
1-1-1	اظهار فهم المعرفة بالعلوم الصيدلانية والطبية الحيوية والاجتماعية والسلوكية والإدارية والإكلينيكية.	1.C1.4	1.1.1	- مقدمة -التطور التاريخي لفكرة حقوق الإنسان	المقرر الالكتروني	x			x
				- التعريف بحقوق الإنسان - خصائص و مبادئ حقوق الإنسان	المقرر الالكتروني	x			x
				مصادر حقوق الإنسان	المقرر الالكتروني	x			x
				أنواع حقوق الإنسان الفردية والجماعية	المقرر الالكتروني	x			x
			1.1.2	- مكافحة الفساد(مفهوم الفساد-أنواع وصور الفساد)	المقرر الالكتروني	x			x
				- أسباب الفساد	المقرر الالكتروني	x			x
				- آثار الفساد	المقرر الالكتروني	x			x
			1.1.3	- وسائل مجابهة الفساد(الإطار التشريعي لمكافحة الفساد)	المقرر الالكتروني	x			x

			- دور الأجهزة الرقابية الوطنية في مكافحة الفساد الإداري -هيئة الرقابة الإدارية ودورها في مكافحة الفساد الإداري.	المقرر الالكتروني	x			x
			- الجهاز المركزي للمحاسبات ودوره في مكافحة الفساد الإداري	المقرر الالكتروني	x			x
			- الجهاز المركزي للتنظيم والإدارة ودوره في مكافحة الفساد الإداري	المقرر الالكتروني	x			x
			- هيئة النيابة الإدارية ودورها في مكافحة الفساد الإداري	المقرر الالكتروني	x			x
			- اللجان الأخرى المعنية بمكافحة للفساد فجمهورية مصر العربية:	المقرر الالكتروني	x			x
			أنواع حقوق الإنسان الفردية والجماعية	المقرر الالكتروني	x			x
			- مكافحة الفساد(مفهوم الفساد-أنواع وصور الفساد)	المقرر الالكتروني	x			x

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منسق المقرر: د. ياسمين أحمد شرف

رئيس القسم:

التاريخ: