COURSE SPECIFICATIONS

Eaculty of Pharmacy

First Level –Semester 1

Bachelor of Pharmacy
(Clinical Pharmacy Pharm D)
2019-2020

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COURSE SPECIFICATION

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 (clinical

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, complexometric and gravimetric reactions.

2-Key elements of Analytical Chemistry (1):

DOMA	IN 1- FUNDAMENTAL KNOWLEDGE					
1-1- C	OMPETENCY:					
standard	e knowledge from basic and applied pharmaceutical and clinical sciences to dize materials, formulate and manufacture products, and deliver population ent-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.					
DOMA	IN 2: PROFESSIONAL AND ETHICAL PRACTICE					
Standar	DMPETENCY dize pharmaceutical materials, formulate and manufacture pharmaceutical s, and participate in systems for dispensing, storage, and distribution of ses.					
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- CC	OMPETENCY					
	and dispose biologicals and synthetic/natural pharmaceutical ls/products effectively and safely with respect to relevant laws and ons.					
2.C3.1	Handle and dispose chemicals safely.					
2.C3.2	Adopt safety guidelines.					
	IN 4: PERSONAL PRACTICE					
Express	DMPETENCY leadership, time management, critical thinking, problem solving, dent and team working, creativity and entrepreneurial skills.					
4.C1.1	Perform tasks within time limit.					

D- Contents:

Week	Lecture	Practical session (1 hr /week)
No.	(2 hrs/week)	
1	- Theoretical basis of	- Safety guidelines
	volumetric analysis	- Standardization of strong acids
	-Acid base reactions and pH	and bases
	calculations	
2	- Buffer solutions and	- Determination of
	neutralization indicators	NaOH/Na ₂ CO ₃
	-Types of acid base indicators	
3	- Acid —base titration curve	- Determination of HCl/HAC
		mixture
4	- Application of neutralization	- Determination of NH ₄ Cl
	reactions	(indirect)
		- Determination of boric
		acid/borax mixture
5	- Non-aqueous titrations and	-Determination of Al ₂ (SO ₄) ₃
	their application	D
6	- Theory of preciptimetry and	-Determination of Cu SO ₄
	solubility product rule	
7		rm exam
8	- determination of different	- Determination of Cl ⁻ by Mohr's
	compounds and their mixtures.	method
9	- Theory of complexometry	- Determination of Ca ²⁺ /Mg ²⁺
	and complexometric indicators	mixture.
10		D (
10	- Types of complexometric	- Determination of Al ³⁺ .
	titrations and their applications	- Determination of Cu ²⁺ .
11	The come of a marriage at marriage	A
11	- Theory of gravimetry,	Activity
	contamination and purification	
10	of precipitate	- Determination of Ni ²⁺
12	- Application of gravimetric	
12	analysis	(gravimetry) - Practical exam
13	Application of gravimetric	- Fractical exam
14	analysis Pavision	
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

5- 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 (1) approved by Analytical chemistry department (2019).
- Practical notes of Analytical chemistry (1) approved by Analytical chemistry department (2019).

2- Essential (textbooks):

i- J. Mendham, et al., Vogel's Textbook of Quantitative Chemical Analysis (6th edition), Addison Wesley Publishing Co., 2000 ii-Daniel C. Harris, Quantitative Chemical Analysis (6thEdition); (2002).

3- Recommended books:

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

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

	Matrix I of Pharmaceutical Analytical Chemistry-1											
	Course Contents		Key elements of Pharmaceutical Analytical Chemistry-1									
			1-1- COMPETENCY			2-2- MPETEN	CY	2-3- COMPETENCY		4-1- COMPETENCY		
Lectures		1.C1.1	.C1.1				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	
2	- Determination of NaOH/Na ₂ CO ₃	X	X	X	X	X	
3	- Determination of HCl/HAC mixture - Determination of NH ₄ Cl	X	X	X	X	X	
4	- Determination of boric acid/borax mixture.	X	X	X	X	X	
5	- Determination of Al ₂ (SO ₄) ₃ -Determination of Cu SO ₄	X		X	X	X	
7	- Determination of Cl ⁻ by Mohr's method	X		X	X	X	
8	- Determination of Ca ²⁺ /Mg ²⁺ mixture.	X		X	X	X	
9	- Determination of Al ³⁺ Determination of Cu ²⁺ .	X		X	X	X	
10	Activity	X		X	X	X	
11	- Determination of Ni ²⁺ (gravimetry)	X		X	X	X	
12	- Revision	X		X	X	X	

Matrix II of Pharmaceutical Analytical Chemistry-1

Na	tional Academic	Program	Cours	Comme		Teaching and learning methods			Weighting of assessment			
Ref	erence Standards NARS	key elements	e key eleme nts	Course contents Sources		lecture	practical session	self learning	written	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.C2.8.	2.C2.3	-Application of neutralization reactionsNon-aqueous titrations and their applicationSelect the most appropriate procedures for determination of mixturesTypes of complexometric titrations and their applicationsApplication 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.C1.1	Application of neutralization reactionsNon-aqueous titrations and their applicationSelect the most appropriate procedures for determination of mixturesTypes of complexometric titrations and their applicationsApplication of gravimetric analysis - All practical sessions.	Practical notebook	X	X	x	

Course Coordinator: Dr.

Head of Department: Dr hisham Ezzat

COURSE SPECIFICATION

Pharmaceutical Organic Chemistry-1

First Level –Semester 1

2019-2020

Course Specification of Pharmaceutical organic chemistry I

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

A- Course specifications:

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

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:

The objective of this course is to provide students with the basic knowledge in pharmaceutical organic chemistry, which will serve as fundamentals for other courses offered during subsequent semesters. This course involves electronic structure of atom, alkanes [nomenclature, synthesis and reactions (free radical reactions)], and cycloakanes. Alkenes, alkadienes and alkynes. Alkyl halides (nomenclature, preparation and chemical reactions (SN1, SN2, E1, E2). Alcohols (nomenclature, synthesis and chemical reactions. Carbonyl compounds

(Aldehydes ,ketones, carboxylic acids & derivatives) nomenclature
synthesis and chemical reactions.
2 Very elements of whomes contical engagin Chemistry I.
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. Recognize the atomic structures, hybridization of atoms and their bonding, electron 1.C1.1 displacement, classification, acidity/basicity, IUPAC nomenclature and stereochemistry of organic compounds 1.C1.2 Give a systematic nomenclature to a given organic compound Outline different synthetic pathways and reactions of saturated and unsaturated aliphatic 1.C1.3 hydrocarbons, alcohols, alkyl halides and aliphatic carbonyl compounds. Classify organic compounds according to their chemical properties with assessment of 1.C1.4 their polarity, reactivity and stability **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. Identify qualitatively the main functional groups of organic raw materials of 2.C2.1 drugs. Write systematic laboratory reports including experimental procedures, 2.C2.2 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. Handle basic laboratory equipments and organic raw materials of drugs 2.C3.1 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 Set realistic targets and mange time to meet targets within deadlines

D- Contents:

Week	Lecture contents (2 hrs/lec.)	Practical session (2hrs/lab)
No.		
1	Atomic structure, covalent bonding,	Lab safety
	hybridization of carbon and elements of organic	
	compounds and molecular orbital theory	
2	Electronegativity, molecular polarity and dipole	Physical properties & solubility
	moment and hydrogen bonding between	
	molecules. Representation and classification of organic compounds.	
3	IUPAC nomenclature of organic compounds.	General chemical tests:
	101110 nomenous of organic compounds.	1. Action of 30% NaOH
4	Free radical halogenation of alkanes	2. Action of FeCl ₃
5	Preparation and reactions of alkenes	3. Action of conc. H ₂ SO ₄
6	Alkynes	Test of unsaturation
7	Periodic exam	1 tot of whomen with
8	Reactions of alkyl halides	Test of function group 1
9	Reactions of alcohols	Test of function group 2
10	Reactions of aldehydes	Test of function group 3
11	Reaction of aldehydes continued	Test of function group 4
12	Reaction of ketones	Test of function group 5
13	Reaction of carboxylic acids	Practical exam
14	Reaction of carboxylic acid derivatives	
15	Final written 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, 1.C1.4

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

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

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

9- 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
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 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.

4- Periodicals, Web Sites, etc

https://www.ekb.eg/

http://chemwiki.ucdavis.edu/

www.Pubmed.Com

www.sciencedirect.com

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		Key elements of Pharmaceutical organic Chemistry-1							
				1-			-2-	2-3-	4-1-	
	Lectures		COMPE	TENCY			ETENC Y	COMPETENCY	COMPETENC	SY
	Lectures	1.C1.1	1.C1.2	1.C1.3	1.C1.4	2.C2.1	2.C2.2	2.C3.1	4.C1.1	
1	Atomic structure, covalent bonding, hybridization of carbon and elements of organic compounds and molecular orbital theory	X								
2	Electronegativity, molecular polarity and dipole moment and hydrogen bonding between molecules. Representation and classification of organic compounds.	X								
3	IUPAC nomenclature of organic compounds.	X	X							
4	Free radical halogenation of alkanes		X	X	X					
5	Preparation and reactions of alkenes		X	X	X					
7	Alkynes		X	X	X					
8	Reactions of alkyl halides		X	X	X					
9	Reactions of alcohols		X	X	X					
10	Reactions of aldehydes		X	X	X					
11	Reaction of aldehydes continued		X	X	X					
12	Reaction of ketones		X	X	X					

13	Reaction of carboxylic acids	X	X	X					
14	Reaction of carboxylic acid derivatives	X	X	X					
1	Laboratory safety measures				X	X	X	X	
2	Physical properties & solubility				X	X	X	X	
3	General Chemical tests Action of 30% NaOH.				X	X	X	X	
4	Action of ferric chloride.				X	X	X	X	
5	Action of conc. H ₂ SO ₄				X	X	X	X	
7	Test of unsaturation				X	X	X	X	
8	Test for functional groups (1).				X	X	X	X	
9	Tests for functional groups (2).				X	X	X	X	
10	Tests for functional groups (3).				X	X	X	X	
11	Tests of functional groups (4).				X	X	X	X	
12	Tests of functional groups (5).				X	X	X	X	

Matrix II of Pharmaceutical organic chemistry-1 **Teaching and** learning Weighting of assessment Cours **National Academic** methods **Program** Course e key **Reference Standards** key **Sources** practical session practical oral exam self learning Midterm eleme contents lecture written exam exam **NARS elements** nts Atomic structure, covalent bonding, hybridization of carbon and elements of organic compounds and Demonstrate molecular orbital understanding of theory Electronegativity, knowledge of molecular polarity 1.C1.1 Student book and dipole moment pharmaceutical, Essential books 1.1.1 1.C1.1 and hydrogen Recommended X X X X biomedical, social, bonding between books behavioral, molecules. Representation and administrative, and classification of organic compounds. clinical sciences. **IUPAC** nomenclature of organic compounds. Free radical 1.C1.2 halogenation of

alkanes

			1.C1.3	Preparation and reactions of alkenes Alkynes Reactions of alkyl halides Reactions of alcohols Reactions of alcohols Reactions of aldehydes Reaction of aldehydes continued Reaction of ketones Reaction of carboxylic acids Reaction of carboxylic acid derivatives					
2.2.1	Isolate, design, identify, synthesize, purify, analyze, and standardize synthetic/ natural pharmaceutical materials.	2.C2.1.	2.C2.1 2.C2.2	Laboratory safety measures Physical properties & solubility General Chemical tests Action of 30% NaOH. Action of ferric	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	2.C3.1.	2.C3.1	chloride. Action of conc. H2SO4 Test of unsaturation Test for functional groups (1). Tests for functional groups (2). Tests for functional groups (3).	Practical notes	x		x	

	materials/products used in pharmaceutical field.		
	Demonstrate		
	responsibility for team		
4.1.1	performance and peer	4.C1.3	4.C1.1
	evaluation of other team	4.C1.5	4.C1.1
	members, and express		
	time management skills		

Tests of functional groups (4). Tests of functional groups (5).

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 SPECIFICATION

Pharmacy Orientation

First Level –Semester 1

2019-2020

Course specification of pharmacy orientation

Zagazig Faculty: Pharmacy University:

A- Course specifications:

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

PharmD)

Major Major or Minor element of programs:

Department offering the program:

Department offering the course: Pharmaceutics Department

Academic year Level: First level / semester 1

October 2019 Date of specification approval:

B- Basic information:

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

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					
care team t	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 Dispense different pharmaceutical dosage forms safely and effectively with application					
2.C1.1	Interpret the pharmaceutical order and follow the dispensing procedure					
DOMAIN	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	Lecture contents (1 hrs/lec.)
No.	
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
	Diug 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
	تعس الغرب والمستقيل على التورم والمستقيل
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

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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

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

Matrix I of pharmacy orientation course

		Key elements of orientation course												
Course contents			COMPETENCY 1.1						COMPETENCY 2.1			COMPETENCY4.2		
Lectures			1.C1.2	1.C1.3	1.C1. 4	1.C1.5	1.C1. 6	2.C1.1			4.C2.1			
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		х								X			
4	Drug and medicine: Definition of drugs, medicines and excipients, drug characteristics, sources, nomenclatures,			Х							Х			
5	Drug classifications			X							X			
6	Medical and pharmaceutical terminology	x					X				Х			
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	
	understar of knowl of pharmace	Demonstrate understanding of knowledge of pharmaceutical, biomedical, social, behavioral, administrative, and clinical sciences.	eal, 1.C1.2	1.C1.1	Introduction to pharmacy: -Pharmacy profession, pharmaceutics, pharmacists, pharmacy education, Pharmaceutical organizations	Student book	X			X			X
1-1-1	social, behavior administr and clinic				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			Х

				drugs, medicines and excipients, drug characteristics, sources, nomenclatures, Drug	Essential books Student	X		X		X
				classifications Routes of drug administration	book Student book	X		X		
			1.C1.4	Introduction to pharmaceutical dosage forms	Student book	X		X		
				Drug Dosage, Factors affecting dose	Student book	х		х		
			1.C1.5	History of pharmacy	Student book	X		Х		
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		х
2-1-1	Perform responsibilities and authorities in compliance with the legal and professional	2.C1.1	2.C1.1	Medical Prescription and medication order and their interpretation	Student book	x		x		
	structure and role of all members of			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 SPECIFICATION

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 (clinical

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: 2hrs/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 identify and prepare a crude drug from the farm to the firm, describe dusting powders, plant cell and cell contents as well as importance of natural products, preparation of natural products-derived drugs including collection, drying, storage, preservation and adulteration. Additionally, students will be able to describe different classes of secondary metabolites, the variability in occurrence of pharmacologically active substances in certain official medicinal leafy plants according to their WHO monographs as well as examples of botanical drugs of leaves in their

entire and powdered forms.

2- Key elements of Medicinal Plants

DOMAIN	N 1- FUNDAMENTAL KNOWLEDGE										
	MPETENCY: Integrate knowledge from basic and applied										
-	utical and clinical sciences to standardize materials, formulate and										
manufacti	ure products, and deliver population and patient-centered care.										
1.C1.1.	Describe different plant cells and contents										
1.C1.2.	Identify the different natural drugs and their productions.										
1 C1 2	Describe Morphological and Histological characters medicinal										
1.C1.3.	leaves.										
1.C1.4	Identify different active constituents and uses of medicinal leaves.										
1.C1.5	Outline adulteration of different medicinal leaves.										
DOMAIN 2: PROFESSIONAL AND ETHICAL PRACTICE											
	MPETENCY: Standardize pharmaceutical materials, formulate and										
	ure pharmaceutical products, and participate in systems for										
	g, storage, and distribution of medicines.										
2.C2.1	Use microscope and design protocols to examine medicinal plants										
2.C2.2.	Differentiate between different plant tissues and plant cells.										
2.C2.3	Examine different medicinal leaves in entire and powdered form.										
2-3- CON	IPETENCY										
Handle ar	nd dispose biologicals and synthetic/natural pharmaceutical										
materials	/products effectively and safely with respect to relevant laws and										
legislation	18										
2.C3.1	Handel and dispose chemicals in a safe way.										
DOMAIN	N 4: PERSONAL PRACTICE										
4-1- COM	1PETENCY										
Express leadership, time management, critical thinking, problem solving,											
independent and team working, creativity and entrepreneurial skills.											
4.C1.1.	Work as a member in a team.										

D- Contents:

Week No.	Lecture contents (2hrs/lecture)	Practical session (1 hr/lab)
1	Introduction on the course and giving the students the possible references, web sites, text books.	Laboratory safety measures Dealing with microscope.
2	Study of plant cell structure, types of cell walls and types of plant cells (parenchyma, collenchyma, sclerenchyma cells)	Identification of different types of plant cells
3	Study of Meristems and Tissues, permanent, complex secretory.	Identification of different types of plant tissues Activity (Net search on plant
4	Study of tissues and tissue systems.	tissues). Microscopical examination of different starches powders and their chemical tests.
5	Study of cell contents	Microscopical examination of dusting powder and their chemical tests.
6	Study of dusting powders	Macroscopical and microscopical examination of Hyoscyamous leaf in entire and powdered form.
7	Midterm I	Exam
8	Study of crude drugs production, cultivation, collection and preparation	Macroscopical and microscopical examination of Datura and Belladona leaves in entire and powdered form.
9	Study of Drying, packing, storage and adulteration of drugs	Practical examination for senna leaf including morphology and histology for entire and powdered forms.
10	General introduction for medicinal leaf. Identification of morphological and histological studies for Senna in entire	Practical examination for Neem leaf including morphology and histology for entire and powdered

	and powdered forms, active constituents,	forms.
	uses and chemical test and adulteration.	Activity (report on pharmaceutical
	uses and enomical test and additionation.	leaves).
11	Identification of morphological and histological studies for Digitalis and Squill, Buchu, Uva ursi, Witch- Hazel in entire and powdered forms, active constituents, uses and chemical test and adulteration.	Practical examination for Mentha leaf including morphology and histology for entire and powdered forms.
12	Identification of morphological and histological studies for, Neem leaves in entire and powdered forms, active constituents, uses and chemical test and adulteration in addition to Laurel, Oregano, Basil, Rosemary and peppermint as non-official leaves.	Practical exam
13	Morphological and histological studies for Hyoscyamus, Datura and Belladonna leaves in entire and powdered forms, active constituents, uses and chemical test and adulteration. In addition to Jaborandi, Boldo and Coca leaves. Revision	practical exam.
15	Written and oral exam	

E- Teaching and Learning Methods:

- Lectures
- Practical sessions
- Self learning (Activities, internet search).

F- Student Assessment methods:

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

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

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

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

Activities to assess: 4.C1.1

Assessment schedule

Assessment (1): Final Written exam	Week 15
Assessment (2): Activity	Week 3, 8
Assessment (3): Practical exams	Week 12. 13
Assessment (4): Oral exams	Week 15
Assessment (5): midterm exam	Week 7

Weighting of Assessment

Assessment method	Marks	Percentage
Written exams	50	50%
Mid term	10	10%
Activity	5	10%
Practical exam	25	25%
Oral exam	10	15%
TOTAL	100	100%

G- Facilities required for teaching and learning:

- For lectures: Black (white) boards, data show.
- For Labs: Chemicals, glassware, instruments, digital balances and water baths.

H- List of References:

1- Student's book approved by Pharmacognosy Department on 2019.

2- Text Books:

- 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

3- Recommended Books:

- "Encyclopedia of Common Natural Used in Food, Drugs and Cosmetics", Leung A.Y. and Faster.
- Pflanzenanatomischer, Grundkurs, Module für die differenzierte Gestaltung
- ISBN 978-3-662-47345-0 ISBN 978-3-662-47346-7 (eBook) DOI 10.1007/978-3-662-47346-7
- National Research Council (US) Panel on Neem. Neem: A Tree For Solving Global Problems. Washington (DC): National Academies Press (US); 1992. 3, The Tree. Available from: https://www.ncbi.nlm.nih.gov/books/NBK234651/

4- Periodicals, web sites, etc.:

- 1. BIOLOGY4ISC
- 2. https://biology4isc.weebly.com/b-anatomy-of-flowering-plants.html
- 3. https://www.researchgate.net/figure/SEM-micrographs-of-leaf-epidermis-a-b-
 Striated-cuticle-on-the-adaxial-surface-a_fig1_225594871
- **4.** https://mmegias.webs.uvigo.es/02-english/1-vegetal/v-imagenes-grandes/proteccion_tricomas.php
- **5.** https://www.researchgate.net/figure/Different-types-of-trichomes-in-Salvia-nemorosa-Glandular-trichomes-A-short-stalked_fig1_326247506
- **6.** https://www.easybiologyclass.com/collenchyma-cells-in-plants-structure-classification-and-functions-with-ppt/
- 7. http://www.pharmacy180.com/article/study-of-different-tissue-systems-19/
- **8.** http://tropical.theferns.info/viewtropical.php?id=Datura+stramonium
- **9.** https://www.sciencedirect.com/topics/chemistry/azadirachtin.
- **10.** https://www.bebeautiful.in/all-things-skin/everyday/7-reasons-why-neem-is-a-power-leaf.
- **11.** https://www.sciencedirect.com/topics/agricultural-and-biological-sciences/ocimum-basilicum.
- **12.** http://herbal-medicine.imedpub.com/rosmarinus-officinalis-rosemary-a-novel-therapeutic-agent-for-antioxidant-antimicrobial-anticancer-antidiabetic-antidepressant-neu.php?aid=20651.

- 13. https://www.medicalnewstoday.com/articles/265214.php.
- **14.** https://lavoirebeauty.wordpress.com/2014/01/03/four-herbs-mix-for-hair-and-skin/

Course Coordinator: Prof. Dr. Ehsan Abu Zaid

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

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

	Matrix I of Medicinal plants course													
						Key el	ements	of Med	icinal p	lants course				
Co	ourse Contents		1-1- C	OMPET	ENCY		2-2- C	OMPET	ENCY	2-3- COMPETENCY	4-1-	COMPE	TENCY	
	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.C3.1	4.C1.1			
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	<mark>on</mark>										
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).						*			x		
5	Examination of different cell content.						*					
6	Activity 1 discussion									X	 	
7	Practical examination for hyoscyamus leaf including morphology and histology for entire and powdered							*	*			

	forms.	1							
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)				*	*	X		
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				*	*	X		
11	Field visit to the experimental faculty farm				*				

	Matrix II of Medicinal plants course											
	onal Academic					Teachi	ng and lea	rning methods	W	eighting of	assessi	nent
	Reference ndards NARS	Program key elements	Course key elements	Course contents	Sources	lecture	practical session	Activities (reports and presentations) and Field visit	written exam	practical exam & activity	oral exam	Midterm exam
			1.C1.1	- Preparation and production of natural drugs	Student book Essential books	*			*	tten am exam & oral exam exam * * * * * * * * * * * * * * * * *	*	
1.1.1	Demonstrate understanding of knowledge of pharmaceutical, biomedical, social, behavioral, administrative,	1.C1.2	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	*			*		*	*
	and clinical sciences.		1.C1.3	Morphological and histological		*			*		*	*
			1.C1.4	studies for plant leaves in entire	Student book	*			*		*	*
			1.C1.5	and powdered forms, active constituents, uses and chemical test.	Essential books	*			*		*	*
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.C2.1	Uses of microscopes	Practical notes	*		*	
	Isolate, design, identify,		2.C2.2	Microscopical examination of starches, dusting powder and different types of cells	Practical notes	*		*	
2.2.1	synthesize, purify, analyze, and standardize synthetic/ natural pharmaceutical materials.	2.C2.1	2.C2.3	Morphological and histological studies for plant leaves in entire and powdered forms	Practical notes	*		*	
			2.C3.1	Morphological and histological studies for plant leaves in entire and powdered forms	Practical notes	*		*	
	Demonstrate			Activity 1 (researches and					
4.1.1	responsibility for team performance and peer evaluation of other team members, and express time management skills.	4.C1.1	4.C1.1	reports on cell differentiation, cell contents and different stages of production of natural drugs like drying). Activity 2 (researches	Self learning		*	*	

		and				
		presentation on				
		pharmaceutical				
		preparations				
		containing				
		leaves)				

Course Coordinator: Prof. Samih El-Dahmy

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

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

COURSE SPECIFICATION

Medical Terminology

First Level –Semester 1

2019-2020

Course Specification of Medical Terminology MD101

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University: Zagazig Faculty: Pharmacy

A- Course specifications:

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

(Clinical 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:

DOMAI	DOMAIN 1- FUNDAMENTAL KNOWLEDGE							
1-1- COM	IPETENCY							
Integrate k	nowledge from basic and applied pharmaceutical and clinical sciences to							
standardiz	e materials, formulate and manufacture products, and deliver population and							
patient-cei	ntered care.							
1.c1. 1	Outline the basic structure of a medical term							
1.c1.2	Explain the level of organization of the human body							
	Recognize the standard abbreviations for the different systems							
1.C1.3	of the human body and common pathological conditions and							
correlate them to their expanded forms.								
1.c1.4	Illustrate medical terms of each body system							

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

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

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

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

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

		Blood system	Text book	X	X
		Lymphatic and immune system	Text book	X	X
			Text book	X	X

COURSE SPECIFICATION

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

Clinical pharmacy)

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:

DOMA	DOMAIN 1- FUNDAMENTAL KNOWLEDGE										
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										
DOMA	IN 4: PERSONAL PRACTICE										
4.C1.1	Deliver different assignments within due time										
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	Microsoft word (Basics)
	Chapter 1: introduction to computers	
	Computer definition	
	Computer uses	
	Computer industry	
2	Chapter 1: introduction to computers	Microsoft word
	(Cont.)	
	Computer generations	
	Classification of computers	NG E 1 (D :)
3	Chapter 2: computer hardware	MS-Excel (Basics)
4	Chapter 3: computer software	MS-Excel (charts)
	Operating systems	
	GUI components	
5	Chapter 3: computer software (Cont.)	Internet search
	Utilities programs	
6	Chapter 3: computer software (Cont.)	Power point
	Application programs	
7	Midterm exam	
8	Chapter 4: Data representation	Assignment 1: Word: Design
	How computers store data	your CV
	Number representation	
9	Chapter 4: Data representation (Cont.)	Assignment 2: Word: Table
9	Chapter 4: Data representation (Cont.) Character representation	Design
	How the computer works	Design
	Trow the computer works	
10	Chapter 4: Data representation (Cont.)	Assignment 3: Excel
	Introduction to high levels languages	Assignment 4: Excel charts
11	Chapter 5: introduction to computers	
	networks	
	Introduction	
	advantages	
12	Chapter 5: introduction to computers	Assignment 6: powerpoint
	networks (Cont.)	
	Uses of computer networks	
	Types of computer networks	
13	Chapter 5: introduction to computers	Practical exam
	networks (Cont.)	
	Structure of computer networks	
14	Basic definitions	
14 15	-Revision	
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							
			Ke	y element	s of inforn	nation tech	nology	
Course Contents		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		Х					
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 Chapter 4: Data representation (Cont.)			х		X	
8	Character representation How the computer works			Х		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			х		
Practical sessions							
1	Microsoft word (Basics)						
	Microsoft word MS-Excel (Basics)		x	X		X	x
	MS-Excel (charts)						

		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	х	х	х	x	х

	Matrix II of information technology course											
National Academic Reference Standards (NARS)		Program	Course	Course	C	Teacl	ning and method	learning ls	Method of assessment			
		key elements	key elements	contents	Sources	lecture	practical session	Course assignments	written exam	practical exam	Course assignments	
	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			х			
1.1.1			1.C1.2	Chapter 2: computer hardware	student book	X			X			
				computer software Operating systems GUI components Utilities programs Application programs								

	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		х		X
4.2.2	Use contemporary technologies and media to demonstrate effective presentation skills.	4.C2.3	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

Course Coordinator: Dr. Khaled Hosni

COURSE SPECIFICATION

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

Clinical pharmacy)

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:

DOMA	IN 1- FUNDAMENTAL KNOWLEDGE								
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								
DOMA	IN 4: PERSONAL PRACTICE								
4.C1.1	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										
		Key	elements of	mathematics							
	Course Contents	FUNDA	IAIN 1- MENTAL /LEDGE	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	Midter	m 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)		х	X							

Matrix II of Mathematics course

National Academic		U	Course	Course	G	Teach	ning and method	learning ls	Method of assessment		
	Reference Standards (NARS)	key elements	key elements	contents	Sources	lecture	practical session	Course assignments	written exam	practical exam	Course assignments
	Demonstrate understanding of knowledge of pharmaceutical, biomedical, social, behavioral, administrative, and clinical	1.C1.1	1.C1.1	1.C1.1 Numbers and Variables- Functions of one variable operations on the functions matrices partial fractions derivative of	student book	x			х		
	sciences.		1.C1.2	functions: derivative of exponential functions, natural	student book	X			X		
1.1.1				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		

				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	

,	1		1	1	1	T	1
		order derivatives,					
		Application of					
		derivatives:					
		increasing					
		functions,					
		decreasing					
		function,					
		concavity and					
		inflection points,					
		relative maximum,					
		relative minimum,					
		absolute					
		maximum,					
		absolute					
		minimum, critical					
		pints,					
		1 /					
		Integration,					
		indefinite integral,					
		rules of					
		integration,					
		Techniques of					
		integration					
		Integration					
		applications					
		(Area – Arc					
		length- Volumes)					

Course Coordinator: Prof. Yasser abd elaziz

COURSE SPECIFICATION

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 (Clinical

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 102

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	I 1- FUNDAMENTAL KNOWLEDGE
1.C1.1	Define general terms and use vocabulary items in meaningful
1.C1.1	sentences
1.C1.2	Outline the structures of English language (e.g. English
1.01.2	Tenses; Interrogative; Punctuationetc) correctly
1C1.3	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	I 4: PERSONAL PRACTICE
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
T	
	in the 21st century
	Grammar: present perfect & present perfect continuous & writing activities
5	-
3	Unit 3:Online pharmacy
	Oral communication activities
6	Reading activities
U	Unit 3:Online pharmacy
	Grammar: past simple, past continuous, writing activities
7	
8	Midterm exam
O	Unit 4:Integrated technology is the key to
	success in hospital pharmacies
	Oral communication activities
0	Reading activities
9	Unit 4:Integrated technology is the key to
	success in hospital pharmacies
	Grammar: past perfect, past perfect continuous,
10	writing activities
10	Unit 5:Pharmacy informatics
	Oral communication activities
44	Reading activities
11	Unit 5:Pharmacy informatics
	Grammar: future simple, future continuous,
10	writing activities
12	Unit 6:The Future of Pharmacy
	Oral communication activities
10	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

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.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=go

ogle&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

Course Coordinator: Dr. Ahmed Abdel Salam Edries

Date: /9/2019

	Matrix I of English language 1 course												
		Key elements of English 1 course											
	Course Contents	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.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		х	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		Х
4	Unit 2:The changing role of the pharmacist in the 21st century Grammar: present perfect & present perfect continuous & writing activities		x	X								Х	
5	Unit 3:Online pharmacy Oral communication activities Reading activities	X			X	X	X	X	X	X	Х		X
6	Unit 3:Online pharmacy Grammar: past simple, past continuous, writing activities		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	
9	Unit 5:Pharmacy informatics Oral communication activities Reading activities	X			X	X	X		X	X	X		X
10	Unit 5:Pharmacy informatics Grammar: future simple, future continuous, writing activities		X	X				X				X	
11	Unit 6:The Future of Pharmacy Oral communication activities Reading activities	X			X	Х	Х		X	X			
12	Unit 6:The Future of Pharmacy Grammar: future perfect, future perfect continuous, writing activities		X	X				X				X	
13	Unit 7:Pharmacy Terms & abbreviations Grammar: interrogative, punctuation, writing activities		X	X				X				X	

				Matri	x II of English	language 1	l cours	e		
	National Academic Reference Standards NARS		Program Course key key		Course contents	Sources	Teac	Method of assessment		
			elements	elements	contents		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 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 Reading activities				
1.C1.2 1.C1.3	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 Grammar: past perfect, past perfect	Student 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	continuous, writing activities Unit 5:Pharmacy informatics Grammar: future simple, future continuous, writing activities Unit 6:The Future of Pharmacy Grammar: future perfect continuous, writing activities Unit 7:Pharmacy Terms & abbreviations Grammar: interrogative, punctuation, writing activities 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	Student book	X			X
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				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 Reading activities Reading activities				
4.2.2	Use contemporary technologies and media to demonstrate effective presentation skills.	4.C2.3	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 & writing activities Unit 3:Online pharmacy Grammar: past	Student book, essential book	X	X	

	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 SPECIFICATION

Human Rights and Fighting of Corruption

First Level –Semester 1

2019-2020

توصيف مقرر حقوق الانسان و محارية الفساد

كلية الصيدلة جامعة الزقازيق أ- مو اصفات المقرر:

البرنامج أو البرامج التي يقدم من خلالها المقرر: بكالوريوس الصيدلة - صيدلة اكلينيكية فارم دي المقرر يمثل عنصرا رئيسيا أو ثانويا بالنسبة للبرامج: ثانوياً

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

د. ياسمين أحمد شرف

المسئول عن تدريس المقرر: أ. د.محمد محمد بركة

السنة الدر اسية: المستوى الاول التيرم الأول.

تاريخ اعتماد التوصيف:

(ب) البيانات الأساسية:

العنوان: حقوق الإنسان و مكافحة الفساد الكود: UR101

الساعات المعتمدة: ساعة واحدة معتمدة

المحاضرات: ساعة واحدة أسبوعيا

العملى: ---

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:

_ المعرفة الاساسية	المجال 1
1-1	اختصاص
فة من العلوم الصيدلانية والسريرية الأساسية والتطبيقية لتوحيد المواد وصياغة	دمج المعر
وتصنيعها وتقديم رعاية تركز على السكان والمرضى	المنتجات
يعرف المقصود بحقوق الإنسان ومصدرها وأنواع حقوق الإنسان الفردية	1 C1 1
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:

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

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:

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

ترجيح التقييم:

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

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 المكتسبة لمادة حقوق الإنسان							
1-	التخصص 1						
1.1.3 1.1.2 1.1							
			X	- مقدمة -التطور التاريخي لفكرة حقوق الإنسان	1		
			Х	- التعريف بحقوق الإنسان - خصائص و مبادئ حقوق الإنسان			
			X	مصادر حقوق الإنسان	3		
			Х	أنواع حقوق الإنسان الفردية والجماعية	4		
		X		- مكافحة الفساد(مفهوم الفساد-أنواع وصور الفساد)	5		
		x		- أسباب الفساد	6		
		x		- آثار الفساد	7		
	X			- وسائل مجابهة الفساد (الإطار التشريعي لمكافحة الفساد)	8		
	X			- دور الأجهزة الرقابية الوطنية في مكافحة الفساد الإداري - هيئة الرقابة الإداري.	9		
	Х			- الجهاز المركزي للمحاسبات ودوره في مكافحة الفساد الإداري	10		
	X			- الجهاز المركزي للتنظيم والإدارة ودوره في مكافحة الفساد الإداري	11		
	х			 هيئة النيابة الإدارية ودورها في مكافحة الفساد الإداري 	12		
	X			- اللجان الأخرى المعنية بمكافحة للفساد فجمهورية مصر العربية:	13		
	X	X	X	مراجعة عامة و مناقشة حره	14		

	مصفوفة 2 مقرر حقوق الإنسان و مكافحة الفساد										
أسلوب التقييم	تعليم و التعلم		أساليب التعليم و ا		\$ 11 ml m	مفاتيح	مفاتيح	ر الأكاديمية المرجعية	المعايير		
الامتحان التحريري	التعلم الذاتي	الدروس العملية	المحاضرة	المصدر	محتويات المقرر	العناصر للمقرر	العناصر للبرنامج	ومية (NARS)	الق		
Х			X	المقرر الالكتروني	- مقدمة -التطور التاريخي لفكرة حقوق الإنسان						
X			X	المقرر الالكتروني	- التعريف بحقوق الإنسان - خصائص و مبادئ حقوق الإنسان			اظهار فهم المعرفة بالعلوم الصيدلانية والطبية الحيوية والاجتماعية والسلوكية والإكلينيكية.			
X			X	المقرر الالكتروني	مصادر حقوق الإنسان	1.1.1	1.C1.4		1-1-1		
X			X	المقرر الالكتروني	أنواع حقوق الإنسان الفردية والجماعية						
х			x	المقرر الالكتروني	- مكافحة الفساد(مفهوم الفساد-أنواع وصور الفساد)						
X			X	المقرر الالكترون <i>ي</i>	- أسباب الفساد	1.1.2	.2				
X			X	المقرر الالكتروني	- آثار الفساد						
x			X	المقرر الالكتروني	- وسائل مجابهة الفساد(الإطار التشريعي لمكافحة الفساد)	1.1.3					

X		х	المقرر الالكتروني	- دور الأجهزة الرقابية الوطنية في مكافحة الفساد الإداري - هيئة الرقابة الإدارية ودور ها في مكافحة الفساد الإداري.	
X		x	المقرر الالكتروني	- الجهاز المركزي للمحاسبات ودوره في مكافحة الفساد الإداري	
X		х	المقرر الالكتروني	- الجهاز المركزي للتنظيم والإدارة ودوره في مكافحة الفساد الإداري	
X		X	المقرر الالكتروني	- هيئة النيابة الإدارية ودور ها في مكافحة الفساد الإداري	
X		x	المقرر الالكترون <i>ي</i>	- اللجان الأخرى المعنية بمكافحة للفساد فجمهورية مصر العربية:	

منسق المقرر: د. ياسمين أحمد شرف رئيس القسم: التاريخ: