COURSE SPECIFICATIONS Faculty of Pharmacy

First year – Second Term

2019-2020

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COURSE SPECIFICATIONS

Analytical Chemistry-2

First year – second Term 2019-2020

Course Specification of Analytical Chemistry -2

University: Zagazig Faculty: Pharmacy

A- Course specifications:

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

Major or Minor element of programs: Major

Department offering the program: -----

Department offering the course: Analytical Chemistry Department

Academic year / Level: First year / Second term

Date of specification approval: 9-2019

B- Basic information:

Title: Analytical Chemistry -2 Code: AC122

Credit Hours: ---

Lectures: 1 hr/week

Practical: 2 hrs/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 explain fundamentals of qualitative analysis of different inorganic compounds (anions): Carbonates and bicarbonates, Sulfur containing anions, Halides, Cyanogen anions, Arsenic containing anions, Phosphates and nitrates to overcome difficulties encountered during anions separation: oxidizing agents, phosphates, insoluble matters, organic matters.

2-Intended Learning Outcomes of Analytical Chemistry -1:

A- l	Knowledge and Understanding									
a1	Summarize principles of qualitative analysis of anions.									
a2	Describe methods of identification and separation of groups of anions.									
a3	Recognize difficulties encountered during separation of metal ions									
B- I	Professional and Practical Skills									
b1	Handle and dispose chemicals safely.									
b2	Separate and identify various groups of anions.									
C- 1	Intellectual Skills									
c1	Apply qualitative analysis techniques for separation of anions.									
c2	Solve difficulties encountered during separation of metal ions									
D- (D- General and Transferable Skills									
d1	Develop critical thinking and decision making skills									

D- Contents:

Week	Lecture (1 hr/week)	Practical Session (2 hrs/week)				
No.						
1	- Carbonates and bicarbonates	- Laboratory safety measures				
		- Accreditation and quality				
		appraisal				
2	- Sulfur containing anions	Carbonates and bicarbonates mixture				
3	- Sulfur containing anions	Separation of Sulfur containing anions				
4	- Halides	Separation of Sulfur containing anions				
5	- Cyanogen anions	Separation of halide gp anions				
6	Cyanogen anions	Separation of halide gp anions				
7		Midterm				
8	-Arsenic & phosphate	Separation of cyanogen gp anions				
	containing anions					
9	-Arsenic & phosphate	Separation of cyanogen gp anions				
	containing anions					
10	- Nitrogen containing anions	Separation of Arsenic & phosphate gp				
	<u>-</u>	anions				
11	- Difficulties: Oxidizing agents	Revision I				
12	- Difficulties: Phosphates	Revision II				

13	- Difficulties: Insolubles	-Practical exam
14	- Difficulties: Organic matter	
15	Final written exam	

E- Teaching and Learning Methods:

- Lectures
- Practical sessions
- Critical thinking through laboratory sessions

F- Student Assessment Methods:

1- Written exam to assess a1, a2, a3, c2, d1

2- Practical exam to assess b1, b2, c1, c2, d1

3- Oral exam to assess a1, a2, a3, c2, d1

Assessment Schedule:

Assessment (1): Final written exam	Week 15
Assessment (2): Practical exam	Week 13
Assessment (3): Oral exam	Week 15

Weighting of Assessment:

Assessment method	Marks	Percentage
Written exam	30	60%
Practical exam	10	20%
Oral exam	10	20%
TOTAL	50	100%

G- Facilities Required for Teaching and Learning:

• Black (white) board, Data show, Laboratory equipment and Chemicals.

H-List of References:

1- Course Notes:

- Student book of analytical chemistry-2 approved by analytical chemistry department (2019)
- Practical notes approved by analytical chemistry department (2019)

2- Essential Books

- G. Svehla, Vogel's Qualitative Inorganic Analysis, Addison Wesley, Longman Ltd, 7th Edition, (1996).
 - Analytical chemistry: Qualitative analysisby F. P Treadwel, (2011).
 - Vogel's Textbook of Macro and Semimicro Qualitative Inorganic Analysis (5th edition) G. Svehla; Longman Inc., New York (1979).

3- Recommended Books

- "Introduction to Semimicro Qualitative Analysis" Joseph T Lagowski, C. H. Sorum, (8th edition), Pearson (2004).
- "Analytical Chemistry," Gary D. Christian, Purnendu K. Dasgupta, Kevin A. Schug, 7th Edition, John Wiley and Sons Inc, Hoboken (2014).

4- Periodicals, Web Sites, etc

- Analytical Letters Journal
- Analyst Journal
- Journal of pharmaceutical and biomedical analysis

Course Coordinator: Prof. Dr. Hisham Ezzat Abdel-Latif

Head of Department: Prof. Dr. Hisham Ezzat Abdel-Latif

2019- 9 تم مناقشة و اعتماد توصيف المقرر من مجلس القسم بتاريخ

	Matrix I of Analytical Chemistry-2 course									
		ILOs of the course								
	Course Contents		wledge lerstanc		Prac ski	etical ills		ectual ills	General and transferable and skills	
		a1	a2	a3	b1	b2	c1	c2	d1	
	Lectures									
1	- Carbonates and bicarbonates	×	×				×		×	
2	- Sulfur containing anions	×	×				×		×	
3	- Sulfur containing anions	×	×				×		×	
4	- Halides	×	×				×		×	
5	- Cyanogen anions	×	×				×		×	
6	- Cyanogen anions	×	×				×		×	
7	- Arsenic & phosphate containing anions	×	×				×		×	
8	- Arsenic & phosphate containing anions	×	×				×		×	
9	- Nitrogen containing anions	×	×				×		×	
10	- Difficulties: Oxidizing agents	×		×				×		
11	- Difficulties: Phosphates	×		×				×		
12	- Difficulties: Insolubles	×		×				×		
13	- Difficulties: Organic matter	×		×				×		
Prac	Practical sessions									

1	Laboratory safety measures		×				
2	Carbonates and bicarbonates mixture			×	×		×
3	Separation of sulphate gp anions			×	×		×
4	Separation of sulphate gp anions			×	×		×
5	Separation of halide gp anions			×	×		×
6	Separation of halide gp anions			×	×		×
7	Separation of cyanogen gp anions			×	×		×
8	Separation of cyanogen gp anions			×	×		×
9	Separation of Arsenic & phosphate gp anions			×	×		×
10	Revision I			×	×	×	×
11	Revision II			×	×	×	×

Matrix II of Analytical Chemistry-2 course

	deference Standards		Course	Course contents	Sources	Teaching an	nd learning nods	Metho	d of asses	sment
	(NARS)	ILOs	ILOs			Lecture	Practical session	Written exam	Practical exam	Oral exam
2.1	Principles of basic, pharmaceutical, medical, social, behavioral, management, health and environmental sciences as well as pharmacy practice.	A1	a1	- Carbonates &Bicarbonates - Sulfur Containing Anions - Halides Containing Anions - Cyanogen Containing Anions - Nitrogen Containing Anions - Arsenic & phosphate Containing Anions - Difficulties - Carbonates &Bicarbonates - Sulfur Containing Anions - Halides Containing Anions - Cyanogen Containing Anions - Nitrogen Containing Anions - Nitrogen Containing Anions - Arsenic & phosphate Containing Anions	Student book Essential books Recommended books Internet	×		×		×
			a3	- Difficulties						

2.3	Principles of different analytical techniques using GLP guidelines and validation procedures.	A11	a2	 Carbonates & Bicarbonates Sulfur Containing Anions Halides Containing Anions Cyanogen Containing Anions Nitrogen Containing Anions Arsenic & phosphate Containing Anions 	Student book Essential books Recommended books Internet	×		×		×
3.2	Handle and dispose chemicals and pharmaceutical preparations safely	B2	b1	Laboratory safety measures	Practical notes		×		×	
3.4	Extract, isolate, synthesize, purify, identify, and/or	В6	b2	-Separation and identification	Practical notes		×		×	
3.4	standardize active substances from different origins.	ВО	62	of anion groups and mixtures	Practical notes		×		×	
	Apply qualitative and quantitative analytical		c1		Practical notes		×		×	
4.3	and biological methods for QC and assay of raw materials as well as pharmaceutical	C6	c2		Student book Essential books Recommended books Internet	×	×	×	×	×
	preparations				Practical notes		×		×	

	Implement writing and						
5.10	thinking, problem-	D11	41	Practical notes	V		
5.10	solving and decision-	D11	u i	Fractical notes	*	×	
	making abilities.						

Course Coordinator: Prof. Dr. Hisham Ezzat Abdel-Latif Head of Department: Prof. Dr. Hisham Ezzat Abdel-Latif

تم مناقشة و اعتماد توصيف المقرر من مجلس القسم بتاريخ

9 -2019

COURSE SPECIFICATIONS

Pharmaceutical Organic Chemistry (2)

First year – second Term 2019-2020

Course specification of Pharmaceutical Organic Chemistry (POC 121)

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Institution: Zagazig University Faculty: Pharmacy

A- Course identification:

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

2. Major or Minor element of programs: Major

3. Department offering the course: Pharmaceutical Organic Chemistry

4. Academic year Level: First Year/ First Semester

5. Date of specification approval: 8/2019

B- Basic information:

1. Title: Pharmaceutical Organic Chemistry	Code: POC 121
2. Teaching Hours: 2 hours Theory and 2 hours Practical/ week	Total = 3 hours/week

C- Professional information:

1- Overall aim of the course:

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

- Identify aromatic and antiaromatic organic compounds.
- Describe the physical and chemical properties of aromatic organic compounds.
- Outline the chemical reactions of primary, secondary and tertiary amines.
- Outline the preparations and chemical reactions of aromatic diazonium salts.
- Describe the reactions of aromatic nucleophilic substitution reactions.
- Outline the reactions and stereochemistry of haloalkanes (S_N1 , S_N2 , E1 and E2).

2- Intended Learning Outcomes (ILOs):

A-	Knowledge and Understanding:						
a1	Outline the principles of aromaticity and antiaromaticity.						
a2	Illustrate the chemical reactions of benzene, aromatic sulphonic acids nitro compounds, amines						
az	and halo compounds.						
В-	Professional and Practical skills:						
b1	Handle basic laboratory equipments and organic raw materials of drugs effectively and safely.						
b2	Identify qualitatively the main functional groups of organic raw materials of drugs and write						
02	laboratory reports including experimental procedures, observations and conclusions						
C-	Intellectual skills:						
c1	Manipulate function groups attached to aromatic rings.						
c2	Classify organic compounds according to their chemical properties.						
D -0	D-General and Transferable skills:						
d1	Communicate effectively with others and work as part of a team.						
d2	Set realistic targets and mange time to meet targets within deadlines						

D- Contents:

Week No.	Lecture contents (2 hrs lec.)	Practical session (2hrs/lab)
1	Aromatic compounds: Criteria for aromaticity, Hückel rule, antiaromaticity, molecular orbital explanation of aromaticity and antiaromaticity, consequences of aromaticity on the reactivity of organic compounds	Laboratory safety measures
2	Nomenclature of benzene derivatives & electrophilic substitution reaction: Halogenation & sulphonation, desulphonation.	Identification of aromatic compounds (e.g benzene).
3	Electrophilic Substitution reactions continued: Nitration and Friedle-Craft alkylation and acylation).	Preparation of nitrobenzene
4	Arenes: Structure, nomenclature, preparation and chemical properties.	Identification of benzoic acid
5	Aromatic nitro compounds: Structure, nomenclature, preparation and chemical properties.	Preparation of m-Nitrobenzoic acid.
6	Aromatic sulphonic acids: Structure, nomenclature, preparation and chemical properties.	Identification of phenol; Preparation of 2,4,6- Trinitrophenol (Picric acid).
7	Midterm exam	
8	Amines (aromatic and aliphatic): Physical properties, preparation, chemical properties and reactions	Identification of aniline Preparation of monophenylurea
9	Aromatic diazonium salts: Nomenclature, preparation, stability and chemical properties.	Preparations and reactions of aromatic diazonium salts
10	Halo compounds (aliphatic and aromatic): Classification and nomenclature, preparation and physical properties.	Preparation of Tribromophenol.
11	Halocompounds: Aliphatic substitution reaction S_N1 , S_N2 , and their stereochemistry.	Identification of acetanilide; Preparation of p-bromoacetanilide
12	Halo compounds: Elimination reaction E1, E2, and their stereochemistry.	Identification aniline HCl & urea
13	Halocompounds: Aromatic Nucleophilic substitution reactions and Electrophilic substitution reactions	Practical exam
14	Criteria of aromatic and antiaromatic organic compounds	Practical exam
15	Final exam	

E- Teaching and Learning Methods: Lectures and practical sessions

F- Students Assessment Methods:

1. Written exams to assess: a1, a2, c1, c2

2. Practical exams to assess: b1, b2, c1, c2, d1, d2

3. Oral exam to assess: a1, a2, c1, c2

4. Writing reports: b1, b2, c1, c2, d1, d2

Assessment schedule and weighting of each assessment

	Assessment method	Week Due	Marks (percentage)
1	Midterm written exam	7	10 marks (10 %)
2	Final written exam	Week 15	50 marks (50%)
3	Practical exam	Week 13 & 14	20 marks (20%)
4	Writing reports	Each lab	5 marks (5%)
5	Oral exam	Week 15	15 marks (15%)

G- Facilities required for teaching and learning:

• For lectures: Black and white boards and data show

• For practical labs: Well-equipped labs

H- List of References:

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

2- Essential Books:

i- Organic Chemistry vol.1- The Fundamental principles; Finar L.; Long man Group (2002).

ii- Organic Chemistry (eighth edition); Solomons T.W.G. & Fryhle C.B.; John Wiley and Sons Inc., USA (2004).

3- Recommended Books:

i- Organic Chemistry (sixth edition); Morrison R.T. and Boyd R.N.; Allyn and Bacon, Prentice-Hall Inc, USA (1992).

ii- Organic Chemistry; McMurry; J. Brooks; Cole publishing company (2000).

Course Coordinator: Prof. Dr. Zakaria Abdelsamii

Head of Department: Prof. Dr. Hanan Abdelrazik Abdelfatah

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

Matrix I of pharmaceutical organic chemistry 2 course ILOs of pharmaceutical organic chemistry 2 course **Course Contents** Knowledge Professional General and Intellectual and practical and transferable skills understanding skills skills Lectures **a2 b1 b2 c2** d1**d2** a1 c1 Benzene structure and aromaticity X Electrophilic substitution reactions X Aromatic halocompounds: preparations and electrophilic substitution reactions X X X Aromatic halocompounds: aromatic nucleophilic substitution reactions X Aliphatic halocompounds: substitution reactions X Aromatic nitro compounds: nomenclature and preparation X X aromatic nitro compounds: physical and chemical properties X Amines (aliphatic and aromatic) X X X Aromatic diazonium salts Х X X Aromatic sulphonic acids 11 X X X Arenes: nomenclature, preparations. X X Arenes:chemical reactions

Х

	Practical sessions						
1	Laboratory safety measures		X			X	
2	Introduction the concept of identification of organic compounds		X	X		X	
3	General scheme for identification of aliphatic and aromatic carboxylic acids/salts		Х	X	X	х	X
4	Activities						X

Matrix II of pharmaceutical organic chemistry 2 course

	National Academic						Teaching and learning methods			Method of assessment		
]	Reference Standards (NARS)	Program Course ILOs ILOs		Course contents Sources		Lecture	Practical session	Self learning	Written exam	Practical exam	Oral exam	
				Benzene structure and aromaticity Electrophilic substitution reactions	Student book Essential books	x x			x x		x x	
	Principles of basic, pharmaceutical, medical, social, behavioral,	Fluerenes	Student book Essential books Recommended books Internet	X		х	x		x			
2.1	management, health and environmental sciences as well as pharmacy	ement, and al Aromatic halocompounds: preparations and electrophilic substitution		X			x		x			
	practice.			Aromatic halocompounds: aromatic nucleophilic substitution reactions	Student book Essential books	х			X		X	
				Aliphatic halocompounds: substitution		X			X		x	

				reactions					
				Aromatic nitro compounds: nomenclature and preparation		х		X	х
				aromatic nitro compounds: physical and chemical properties		x		x	x
				Amines (aliphatic and aromatic)		X		X	Х
				Aromatic diazonium salts		X		X	Х
				Aromatic sulphonic acids		X		X	Х
				Arenes: nomenclature, preparations.	Student book Essential books Recommended books Internet	X	X	х	х
				Arenes:chemical reactions	Student book Essential books	Х		X	x
2.5	Principles of drug design,	A15	a2	Aromatic halocompounds: preparations and electrophilic substitution reactions	Student book Essential	X		X	х
2.5	development and synthesis.	THIS	u2	Aromatic nitro compounds: nomenclature and preparation	books	Х		X	х
				Amines		X		X	X

				(aliphatic and aromatic) Aromatic diazonium salts Aromatic sulphonic acids Arenes: nomenclature,		X X		x x		x x
				preparations. Laboratory safety measures			X		X	
3.2	Handle and dispose chemicals and pharmaceutical preparations	B2	b1	Introduction the concept of identification of organic compounds	Practical notes		X		x	
	safely			Scheme for identification of organic compounds			X		х	
	Synthesize, purify, identify,			Identification of organic compounds			X		х	
3.4	and/or standardize active substances from different origins.	В7	b2	Scheme for identification of aliphatic and aromatic compounds	Practical notes		X		x	
4.5	Select the appropriate methods of isolation, synthesis,		c1	Scheme for identification of aliphatic and aromatic compounds	Practical notes		X		X	
7.0	purification, identification, and standardization of active	C9	c2	Aromatic halocompounds: preparations and electrophilic substitution	Student book Essential books	X		X		х

	substances from different origins.			reactions							
				Aromatic nitro compounds: nomenclature nd preparation		x			X		x
				Amines (aliphatic and aromatic)		X			X		X
				Aromatic diazonium salts		X			X		X
				Aromatic sulphonic acids		X			X		X
				Arenes: nomenclature, preparations.	Student book Essential books Recommended books Internet	X		X	х		х
5.1	Communicate		d1	Laboratory safety measures			X			X	
	clearly by verbal and non- verbal means	D1	a1	Identification of organic compounds	Practical notes		X			x	
5.3.	Work effectively in a team	D3		Scheme for identification of organic compounds	Practical notes		X			х	
5.8	Demonstrate creativity and time management abilities	D9	d2	General scheme for identification of aliphatic and aromatic carboxylic acids/salts	Practical notes Recommended books Internet		X			х	
				Activities			X	X		X	

Course Coordinators: Prof. Dr. Zakaria Abdelsamii

Head of Department:Prof. Dr. Hanan Abdelrazik Abdelfatah

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

COURSE SPECIFICATIONS

Pharmacognosy 1

First year – second Term 2019-2020

Course Specification of Pharmacognosy 1

University: Zagazig Faculty: Pharmacy

A- Course specifications:

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

Major or Minor element of programs: Major

Department offering the program: ------

Department offering the course: Pharmacognosy

Academic year/ Level: First year/Second term

Date of specification approval: September 2019

B- Basic information:

Title: Pharmacognosy 1 Code: **PG121**

Credit Hours: ---

Lectures: 3 hrs/week

Practical: 2 hrs/week

Tutorials: ---

Total: 4 hrs/week

C- Professional information:

1. Overall Aims of the Course:

On completion of the course, students will be able to illustrate microscopical and macroscopical characters and uses of medicinal leaves, flowers, barks, woods and seeds as well as identification of their different active constituents and adulteration.

2. Intended Learning Outcomes of Pharmacognosy 1:

A-	Knowledge and Understanding							
a1	Describe morphological and histological characters of medicinal Leaves, flowers, barks, woods and seeds.							
a2	Outline adulteration of different medicinal Leaves, flowers, barks, woods and seeds.							
a3	Identify different active constituents of medicinal uses of Leaves, flowers, barks, woods and seeds.							
B-	Professional and Practical Skills							
b1	Handle and dispose chemicals in a safe way.							
b2	Use equipments effectively.							
b3	Examine drugs of plant origin in entire and powdered form.							
b4	Determine the active constituents of the studied drugs.							
C-	Intellectual Skills							
c1	Adopt GLP and safety guidelines in the lab.							
c2	Differentiate between drugs in entire and powdered form.							
c3	Investigate active constituents of different drugs.							
D-	General and Transferable Skills							
d1	Work as a member of a team.							
d2	Develop internet search and communications skills.							
d3	Manage time and plan of work.							
d4	Write and present reports.							

D-Course contents:

Week	Lecture (3 hrs/week)	Practical session
No		(2 hrs/week)
1	Overview on the course in pharmacognosy I and Introduction to medicinal leaves.	Laboratory safety measures. Examination of plant leaves and T.S. of leaves.
2	Study of the general solanaceous leaves characters. Study morphological and histological characters, constituents, uses, chemical tests and detection of adulteration in entire and powdered form of leaves containing alkaloids and glycosides.	Macroscopical and microscopical examination of Hyoscamous and Datura leaves.
3	Study morphological and histological characters, constituents, uses, chemical tests and detection of adulteration in entire and powdered form of leaves containing cardiac glycosides and miscellaneous leaves.	Microscopical examination of powdered Senna and Digitalis leaves. Activity (report on pharmaceutical leaves)
4	Introduction to medicinal flowers.	Identification of Clove, Chamomile and Santonica in entire and powdered form.
5	Study morphological and histological characters, constituents, uses, chemical tests and detection of adulteration in entire and powdered form of clove, German and Roman chamomile.	Identification of Calendula, Lavander, Karkadeh and Tilia in powdered form.
6	Study morphological and histological characters, constituents, uses, chemical tests and detection of adulteration in entire and powdered form of Pyrethrum and Santonica. Unofficial flowers.	Identification of Cinchona and Cinnamon in entire and powdered form.
7	Midterm	
8	Introduction to medicinal barks.	Identification of Cassia in entire and powdered form.
9	Study morphological and histological characters, constituents, uses, chemical tests and detection of adulteration in entire and powdered form of Cinnamon, Cassia, Cascarilla, Canella and Quillaia.	Identification of Quassia wood in entire and powdered form.
8	Study morphological and histological characters, constituents, uses, chemical tests and detection of adulteration in entire and powdered form of Pomegranate, Cinchona, Cascara and Frangula.	Identification of Galls in powdered form. Activity (report on pharmaceutical bark)
9	Introduction to medicinal Wood. Study morphological and histological characters, constituents, uses, chemical tests and detection of adulteration in entire and powdered form of Quassia wood and Galls	Identification of Linseed and Black mustard in entire and powdered form.

10	Introduction to medicinal seeds. Study morphological and histological characters, constituents, uses, chemical tests and detection of adulteration in entire and powdered form of Linseed, Cardamom and Nutmeg.	Identification of Fenugreek in entire and powdered form. Identification of Cardamom and Nux vomica in powdered form.
11	Study morphological and histological characters, constituents, uses, chemical tests and detection of adulteration in entire and powdered form of Foenugreek, Colchicum and Nux vomica.	Revision
12	Study morphological and histological characters, constituents, uses, chemical tests and detection of adulteration in entire and powdered form of Strophanthus and Mustard.	Practical exam
13	Study other medicinally importance seeds (unofficial seeds).	Practical exam
14	Revision	
15	Written and oral exam	

E- Teaching and Learning Methods:

- Lectures (interactive lecture, data show and board)
- Practical sessions
- Self-learning (collect different marketed herbal products &demonstrate the structure, active constituents and uses of the herb in the form of report)
- Field visit

F- Student Assessment Methods

- Written exam to assess a1, a2, a3, c1, c2,c3
- 2- Practical exam to assess b1, b2, b3,b4
- 3- Oral exam to assess a1, a2, a3, c1, c2,c3
- 4- Activities (group discussion, presentation, net search and pamphlets' of natural drugs) to assess d1, d2, d3,d4

Assessment schedule:

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

Weighting of Assessment:

Assessment method	Marks	Percentage
Written exams	75	50%
Mid term	15	10%
Activity	10	7%
Practical exam	30	20%
Oral exam	20	13%
TOTAL	150	100%

G- Facilities Required for Teaching and Learning:

- For lectures: Black (white) boards, data show.
- For Labs: Chemicals, glassware, water bathes.
- Zagazig University Farm

H-List of References:

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

2- Essential Books:

- pharmacognosy , fundmentals, applications and strategies by simone Badal and Rupika Delgoda (2018)
- -Trease and Evans, Pharmacognosy, 15thed., Saunders company, Nottingham, U.K. Willium Charles Evans (2003).

3- Recommended Books

Leung A.Y. and Faster" Encyclopedia of Common Natural Ingredients Used in Food,

Drugs and Cosmetics".

- Janice, Glimn-Lacy and Peter B. Kaufman, Botany Illustrated, Introduction to plants, major groups, flowering plants families, 2nd ed. Springer **2006**.
- Martindale, "The extrapharmacopeia". 31st Edn., by James, E.F Reynolds. And Kathleen Parfitt, Royal Pharmaceutical Society, London (2007).

4- Periodicals, web sites, etc

Amer. J. Nat. Prod., Phytochemistry, Planta Medica, Fitoterapia.

- A. Fahan, Plant Anatomy, Pergamon Press. 2002.
- http://www.scribd.com/doc/75980088/Atlas-of-Medicinal-Plants-II
- http://pharmacystudent-prep.blogspot.com
- http://www.pharma-board.com/board/fopgal/index.php

Course Coordinators: Prof. Dr. Afaf abd El-Ghany

Head of department:

تم مناقشة و إعتماد توصيف المقرر من مجلس القسم بتاريخ /2019/9

Matrix I of Pharmacognosy-1 Course

Г	Matrix I of I harmacognosy-1 Course															
			ILOs of Pharmacognosy-1													
		Course Contents	Knowledge and understanding				ofessi oractio			Intellectual skills			Transferable and general skills			
			a1	a2	a3	b1	b2	b3	b4	c1	c2	c3	d1	d2	d3	d4
		Lectures														
	1	Overview on the course in pharmacognosy 1 and Introduction to medicinal leaves.	X													
	2	Study of the general solanaceous leaves characters. Study morphological and histological characters, constituents, uses, chemical tests and detection of adulteration in entire and powdered form of leaves containing alkaloids	×	×	×							×				
	3	Study morphological and histological characters, constituents, uses, chemical tests and detection of adulteration in entire and powdered form of leaves containing glycosides and miscellaneous leaves.	X	×	×							×				
	4	Introduction to medicinal flowers. Study morphological and histological characters, constituents, uses, chemical tests and detection of adulteration in entire and powdered form of clove,	×													
	5	Study morphological and histological characters, constituents, uses, chemical tests and detection of adulteration in entire and powdered form of, German and Roman chamomile, and Pyrethrum.	×	×	×\							×				

6	Study morphological and histological characters, constituents, uses, chemical tests and detection of adulteration in entire and	×	×	×							×			
	powdered form of Santonica. Unofficial flowers.													
7	Introduction to medicinal barks. Study morphological and histological characters, constituents, uses, chemical tests and detection of adulteration in entire and powdered form of Cinnamon, Cassia, Cascarilla, Canella and Quillaia.	×												
8	Study morphological and histological characters, constituents, uses, chemical tests and detection of adulteration in entire and powdered form of Pomegranate, Cinchona, Cascara and Frangula.	×	×	×							×			
9	Introduction to medicinal Wood. Study morphological and histological characters, constituents, uses, chemical tests and detection of adulteration in entire and powdered form of Quassia wood and Galls	×	×	×							×			
10	Introduction to medicinal seeds. Study morphological and histological characters, constituents, uses, chemical tests and detection of adulteration in entire and powdered form of Linseed, Cardamom and Nutmeg.	×	×	×										
11	Study morphological and histological characters, constituents, uses, chemical tests and detection of adulteration in entire and powdered form of Foenugreek, Colchicum and Nux vomica.	×	×	×						×	×			
12	Study morphological and histological characters, constituents, uses, chemical tests and detection of adulteration in entire and powdered form of Strophanthus and Mustard. Study other medicinally importance seeds (unofficial seeds).	×	×	×							×			
	Practical sessions													

		1	1					l	l					
17	Laboratory safety measures. Dealing with microscope.			×	×					×				
	- Examination of plant leaves and T.S. of leaves.													
18	Macroscopical and microscopical examination of Hyoscamous and Datura					×	X							
	leaves.													
19	Microscopical examination of powdered Senna and Digitalis leaves.					×	X				×		X	
17	Activity (report on pharmaceutical leaves)					^	А						21	
20	Identification of Clove in entire and powdered form.					×	X							
	-													
21	Identification of Clove, Chamomile and Santonica in entire and powdered					×	X							
	form.					^	21							
22	Identification of Calendula, Lavander, Karkadeh and Tilia in powdered form.					×	X							
	identification of Calcilidata, Lavander, Karkaden and Tina in powdered form.					^	А							
23	Identification of Cinchona, Cinnamon in entire and powdered form.					×								
	Tomanous of Caronous, Caronous in China and Fortune					. ,								
24	Identification of Cassia in entire and powdered form.					×								
25	Identification of Quassia wood in entire and powdered form.					×								
	Identification of Galls in powdered form.													-
26	Activity (Presentation, (report on pharmaceutical bark))					X	X				×		X	
	Identification of Linseed and Black mustard in entire and powdered form.													
27	identification of Efficed and Black mustard in entire and powdered form.					×	X							
	Identification of Fenugreek in entire and powdered form.													
28	Identification of Cardamom and Nux vomica in powdered form.													
40	ruchunication of Cardaniom and Nux voinica in powdered form.					×								
29	Revision				×	×				×	×	×		
	TO FISION				^	^						^		
								l	l					_

Matrix II of Pharmacognosy-1 Course

	tional Academic erence Standards	Program	Course	Course contents	Sources	Teach	ing and lea	arning	W	assessment	
	NARS	ILOs	ILOs		Sources	Lecture	Practical session	Self learning		Practical exam	Oral exam
Lectures											
2.1	Principles of basic, pharmaceutical, medical, social, behavioral, management, health and environmental sciences as well as pharmacy practice.	A2	a1	- Overview of pharmacognosy I Introduction to medicinal leaves, flowers Study morphological and histological characters of flowers, barks, woods and seeds in entire and powdered form Study of the general solanaceous leaves characters. Study morphological and histological characters, constituents, uses, chemical tests and detection of adulteration in entire and powdered form	Student's book	×			×		×

		T	1	
				of leaves containing
	\mathbf{z}			alkaloids
N.	AR	Outline the basics		Study morphological and
	S	of macro and	A3	histological characters,
		microscopical		constituents, uses,
		characters of		chemical tests and
		different medicinal		detection of adulteration in
		plant organs,		entire and powdered form
		detection of		of leaves containing
		adulteration as		glycosides and
		well as, their		miscellaneous leaves.
		proper collection,		Introduction to medicinal
		storage and		flowers.
		marketing in		Study morphological and
		addition to chemo		histological characters,
		taxonomical		constituents, uses,
		classification of		chemical tests and
		medicinal plants.		detection of adulteration in
				entire and powdered form
				of clove,
				Introduction to medicinal
				barks.
				Study morphological and
				histological characters,
				constituents, uses,
				chemical tests and
				detection of adulteration in
				entire and powdered form
				of Cinnamon, Cassia,
				Cascarilla, Canella and
				Quillaia.

			a2	Outline adulteration of different plant organs using microscope and chemical tests. Study morphological and histological characters, constituents, uses, chemical tests and detection of adulteration in entire and powdered form of Santonica. Unofficial flowers.	Student's book	×		×		×
2.4	Principles of isolation, synthesis, purification, identification, and standardization methods of pharmaceutical compounds.	A12	a3	- Identify different active constituents and medicinal uses of Leaves, flowers, barks, wood and seeds.	Student's book	×		×		×
4.5	Select the appropriate methods of isolation, synthesis, purification, identification, and standardization of	С9	c2	- Differentiate between drugs obtained from different medicinal leaves, flowers, barks, wood and seeds in entire and powdered form.	Student's book	×		×		×
	active substances from different origins.		c3	- Study the active constituents of medicinal flowers, barks, wood and seeds.	Student's book	×		×		×
				Practic	al sessions					
	Handle and dispose chemicals and		b1	- Laboratory safety measures. Dealing with microscope	Practical notes				×	
3.2	pharmaceutical preparations safely	B2	b2	Examination of plant leaves and T.S. of leaves.	Practical notes				×	

3.4	Extract, isolate, synthesize, purify, identify, and/or standardize active substances from different origins.	В6	b3	Identification of Clove in entire and powdered form. Identification of Clove, Chamomile and Santonica in entire and powdered form. Identification of Calendula, Lavander, Karkadeh and Tilia in powdered form. Identification of Cinchona, Cinnamon in entire and powdered form. Identification of Cassia in entire and powdered form. Identification of Quassia wood in entire and powdered form. Identification of Galls in powdered form. Activity (Presentation, (pamphlet containing A.C)) Identification of Linseed and Black mustard in entire and powdered form. Identification of Fenugreek in entire and powdered form. Identification of Cardamom and Nux vomica in powdered form.	Practical notes		×	
			b4	- Identification of different secondary metabolites using chemical tests.	Practical notes		×	
4.2	Comprehend and apply GLP,GPMP, GSP and GCP guidelines in pharmacy practice	C3	c1	- Safety measures lab.	Practical notes		×	

4))	Work effectively in a team	D3	d1	- Activity (report on pharmaceutical leaves ,bark ,seeds)	Internet, essential and recommended books.	×		
-	5.4	Use numeracy, calculation and statistical methods as well as information technology tools	D5	d2	- Activity (pharmaceutical preparation containing herbal constituents)	Internet, essential and recommended books.	×		
5	5.8	Demonstrate creativity and time management abilities	D9	d3	- Activity (Presentation)	Internet, essential and recommended books.	×		
5		Implement writing and presentation skills	D10	d4	- Activity	Internet, essential and recommended books.	×		

Course Coordinators: Prof. Dr. Afaf abd El-Ghany

Head of department:

تم مناقشة و إعتماد توصيف المقرر من مجلس القسم بتاريخ /2019/9

COURSE SPECIFICATIONS

Pharmaceutics-2

First year – second Term 2019-2020

Course specification of pharmaceutics-2

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University: Zagazig Faculty: Pharmacy

A- Course specifications:

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

Major or Minor element of programs: Major

Department offering the program: ------

Department offering the course: Pharmaceutics Dept.

Academic year Level: First year/Second semester

Date of specification approval: November 2019

B- Basic information:

Title: Pharmaceutics-2 Code: PC121

Credit Hours: ---

Lectures: 2 hrs/week

Practical: 2 hrs/week

Tutorials: ---

Total: 3 hrs/week

C- Professional information:

1-Overall aim of the course

On completion of the course, the student will be able to describe; Types of flow, Determination of viscosity, The rheology of pharmaceutical dosage forms, Buffer and isotonic solution, Intermolecular forces, Liquid-solid ,liquid-gas and liquid-liquid interfaces, Surfactants, Structure of micelles and liquid crystals, Liquid-solid interface, Adsorption, Metal complexes, Organic molecular complexes, Occlusion compound, Complexation and drug action, Method of analysis, State of matter, Kinetic molecular theory and Phase equilibrium as well as Solubility of solid in liquid.

2-Intended Learning Outcomes of pharmaceutics-2 (ILOs):

A- Kno	owledge and Understanding
a1	Outline types of flow, viscosity, rheology, surfactants, complexation and adsorption
a2	Define buffer, isotonicity, adsorption, kinetic molecular theory, solubility and mention the colligative properties of solution
a3	Outline intermolecular forces and states of matter
a4	Illustrate liquid-solid, liquid-gas and liquid-liquid interfaces
a5	Summarize the structure of micelles and liquid crystals
B- Pro	fessional and Practical Skills
	Perform experiments for measurement of liquids viscosity, surface
b_1	tension and CMC, adsorption and solubility of certain substances such as
	benzoic acid and salicylic acid
C- Inte	ellectual Skills
c1	Select the appropriate pharmaceutical ingredients based on their
CI	physicochemical properties for safe and effective formulation
c2	Interpret different results from physical measurements
D- Ger	neral and Transferable Skills
d1	Work effectively in a team
d2	Develop the decision making and problem solving abilities
d3	Communicate effectively in oral and written manner

D- Contents:

Week No.	Lecture contents (2hrs/week)	Practical session (2hrs/week)
1	State of matter and intermolecular forces: -Types of inter and intra molecular	Introduction
	forces	
2	State of matter: Gaseous state, Liquid state and solid state	Pharmaceutical calculation
3	Phase equilibrium and Phase rule	Pharmaceutical calculation
4	Rheological flow characteristics of liquids and semi-solids	Determination of viscosity of certain liquids
5	The rheology of pharmaceutical dosage forms	Determination of viscosity of certain liquids
6	Surface and Interfacial phenomenon	Determination of surface tension of liquids
7	Midterm e	exam
8	Surface characteristics and surface active agents	Determination of surface tension of liquids
9	Adsorption	Determination of percentage of adsorbed substances
10	Solubility of solid in liquid Properties of solutions	Determination of solubility of certain substances
11	Buffer solutions	Solve problems of pharmaceutical buffer solutions
12	Isotonic solutions	Solve problems of isotonic solutions
13	Complexation and protein binding: Metal complexes Organic molecular complexes	Practical Exam
14	inclusion compounds Complexation and drug action Method of analysis	
15	final written exam	

E- Teaching and Learning Methods:

- Lectures
- Practical session
- Activity

F- Student Assessment methods:

1-Written exams to assess: a1, a2, a3, a4, a5, c1, c2, d2, d3

2- Practical exams to assess: b1, d2

3- Activity within labs: d1, d2, d3

3- Oral exam to assess: a1, a2, a3, a4, a5, c1, c2, d3

Assessment schedule

Assessment (1): Written midterm exam	Week 7
Assessment (2): Practical exams	Week 13
Assessment (3): Activity within labs	each lab
Assessment (4): Written final exam	Week 15
Assessment (5): Oral exams	Week 15

Weighting of Assessment

Assessment method	Marks	Percentage
Written midterm exam	10	10%
activities	5	5%
Practical exam	20	20%
Written final exam	50	50%
Oral exam	15	15%
TOTAL	100	100%

G- Facilities required for teaching and learning:

For lectures: Black (white) boards, data show

For labs: Chemicals, glass ware, instruments, digital balance, water bathes

H- List of References:

1- Course Notes: Student book of pharmaceutics-2 approved by

pharmaceutics department 2019

2- Essential Books:

- i- Physical pharmacy, Martin, A., 4th edition, Philadelphia, London. (1993).
- ii- Pharmaceutical calculations, Stoklosa, M., and Ansel, H. C., Philadelphia, London. (1997).
- iii- Martin's physical pharmacy and pharmaceutical sciences: Patrick J. Sinko, Alfred N. Martin, Lippincott Williams & Wilkins, (2006).

3- Recommended Books

- i- The science of dosage form design, Aulton, M. E., 2nd edition, Churchill Livingstone, London. (2002).
- ii- Applied physical pharmacy, Mansoor M. Amiji, Beverly J. Sandmann, McGraw-Hill, (2003).
- ✓ Remington: the Science and Practice of Pharmacy" Genars, Alfonso R edition, 2000.

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Course Coordinator: Nagia Ahmed El-megrab

Head of Department: Nagia Ahmed El-megrab
تم مناقشة و اعتماد توصيف المقرر من مجلس القسم بتاريخ / 11 / 2019 م

Matrix I of pharmaceutics 2 course

							ILOs of pl	harmaceut	ics 2 cours	e		
	Course Contents	Knowledge and understanding					Professional and practical skills	Intellectual skills		Transferable and general skills		
	Lectures	a1	a2	a3	a4	a5	b1	c1	c2	d1	d2	d3
1	State of matter and intermolecular forces: -Types of inter and intra molecular forces	X		x								
2	State of matter: -Gaseous state, Liquid state and solid state	X		х								
3	Phase equilibrium and Phase rule	X										
4	Rheological flow characteristics of liquids and semi-solids:	X						X	x			
5	The rheology of pharmaceutical dosage forms	X						X	x			
6	Surface and Interfacial phenomenon	X			х	X						
7	Surface characteristics and surface active agents	X				х	x	х				
8	Adsorption	X	X		X				X			

9	Solubility of solid in liquid	X	X				х			
10	Properties of solutions	X	X				Х			
11	Buffer solutions	X	X						X	
12	Isotonic solutions	x	X						X	
13	Complexation and protein binding: Metal complexes Organic molecular complexes	X			X					
14	inclusion compounds Complexation and drug action Method of analysis	x	X							
	Practical Session									
15	Determination of viscosity of certain liquids					х	x	X	X	х

16	Determination of surface tension of liquids			x	х	X	X	Х
17	Determination of percentage of adsorbed substances			X	X	X		X
18	Determination of solubility of certain substances			X	X	X	x	X
19	Solve problems of pharmaceutical buffer solutions					X	X	X
20	Solve problems of isotonic solutions					X	х	Х

		Matı	rix II of Pharma	aceutics 2	2 cours	e				
NARS	Program ILOS	Course ILOS	Course content	Sources	lear	ing and ning hods	Method of assessmen			
	ILOS	ILOS			Lecture	Practical session	Written exam	Practical exam	Oral exam	
2.1 Principles of basic, pharmaceutical, medical, social, behavioral, management, health and environmental sciences as well as pharmacy practice. 2.2 Physical-chemical properties of various substances used in preparation of medicines including inactive and active ingredients as well as	A2	aı	State of matter and intermolecular forces: -Types of inter and intra molecular forces State of matter: -Gaseous state, Liquid state and solid state Phase equilibrium and Phase rule Rheological flow characteristics of liquids and semisolids The rheology of pharmaceutical dosage forms Surface and Interfacial phenomenon Surface characteristics	Student book Essential books	X		X		X	

biotechnology
and radio-
labeledproducts

İ	and aurife				
	and surface				
	active agents				
	Adsorption				
	Solubility of solid				
	in liquid				
	Properties of				
	solutions				
	Buffer solutions				
	Isotonic solutions				
	Complexation				
	and protein				
	binding: Metal				
	complexes				
	Organic				
	molecular				
	complexes				
	inclusion				
	compounds				
	Complexation				
	and drug action				
	Method of				
	analysis				
	Adsorption				
	Solubility of solid				
	in liquid				
	Properties of	Student			
	solutions	book			
a ₂	Buffer solutions	Essential	X	X	X
	Isotonic solutions	books			
	inclusion	DOOKS			
	compounds				
	Complexation				
	and drug action				

	Method of analysis				
a 3	State of matter and intermolecular forces: -Types of inter and intra molecular forces State of matter: -Gaseous state, Liquid state and solid state	Student book Essential books	X	X	x
a 4	Surface and Interfacial phenomenon	Student book	X	X	X
	Adsorption	Essential books			
a 5	Surface and Interfacial phenomenon Surface characteristics and surface active agents Complexation and protein binding: Metal complexes Organic	Student book Essential books	x	x	x

			molecular complexes									
3.4 Extract, isolate,			Determination of viscosity of certain liquids	Practical notes		х		Х				
synthesize, purify, identify, and /or	В6		Determination of surface tension of liquids	Practical								
standardize active substances					b ₁	Determination of percentage of adsorbed substances	notes		Х		х	
from different origins.				Determination of solubility of certain substances	Practical notes		Х		Х			
			Determination of surface tension of liquids	Practical notes		X		X				
4.1 Apply pharmaceutical knowledge in the formulation of safe and effective medicines as well as in dealing with new drug delivery systems.	C1 C18	C 1	Rheological flow characteristics of liquids and semisolids: The rheology of pharmaceutical dosage forms Surface characteristics and surface active agents	Student book Essential books Internet	X		x		x			
4.13 Analyze and interpret		c2	Phase equilibrium and	Student book	Х	X	Х	X	Х			

experimental results as well as published literature.			Phase rule Rheological flow characteristics of liquids and semisolids The rheology of pharmaceutical dosage forms Adsorption Solubility of solid in liquid Properties of solutions Buffer solutions	Essential books Internet Practical notes			
5.1 Communicate clearly by verbal and means.	D1	d3	Determination of viscosity of certain liquids Determination of surface tension of liquids				x
5.3 Work effectively in a team.	D3	d1	Determination of percentage of adsorbed substances Determination of solubility of certain substances	Practical notes	X	X	

5.10 Implement Solve problems of	
writing and pharmaceutical	
thinking, D11 d2 buffer solutions	
problem- solving Solve problems of	
and decision- making abilities.	

Course Coordinator: Nagia Ahmed El-megrab

Head of Department: Nagia Ahmed El-megrab تم مناقشة و اعتماد توصيف المقرر من مجلس القسم بتاريخ / 11 / 2019 م

COURSE SPECIFICATIONS

Mathematics and Statistics

First year – second Term 2019-2020

توصيف مقرر الرياضيات و الاحصاء

كلية الصيدلة جامعة الزقازيق أ- مو اصفات المقرر:

البرنامج الذي يقدم المقرر: بكالوريوس الصيدلة

المقرر يمثل عنصرا رئيسيا أو ثانويا بالنسبة للبرامج: ثانوياً

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

القسم العلمي المسئول عن تدريس المقرر: كلية العلوم- قسم الرياضيات

السنة الدراسية: الفرقة الأولى - التيرم الثاني.

تاريخ اعتماد التوصيف: سبتمبر 2019

(ب) البيانات الأساسية:

العنوان: رياضيات و احصاء الكود: MS120

الساعات المعتمدة: ---

المحاضرات: ساعة أسبوعيا

العملى: ---

الدروس العملية: ---

المجموع: 1ساعة في الأسبوع

(ج) البيانات المهنية:

1) الأهداف العامة للمقرر:

عند إتمام المقرر سوف يكون الطلاب قادرين على تطبيق علم الرياضيات والاحصاء في مجال الصبدلة.

2) النتائج التعليمية المستهدفة لمقرر الرياضيات و الاحصاء:

مرفة و الفهم	أ_ الم
يلم بمباديء علم الرياضيات.	1 أ
يلم بمباديء علم الإحصاء.	اً 2
يحدد الطرق المختلفة للتحليل الإحصائي.	31
لهارات الفكرية	ج- اله
يستخدم الطرق الإحصائية المختلفة لتفسير نتائج الأبحاث المعملية.	ج1
ارات عامة و تواصلية	د۔ مھ
يجيد التعامل مع الأرقام و الطرق الإحصائية.	د1
يكتسب مهارات حل المشكلات و اتخاذ القرارات.	د2

د_ المحتويات:

المحاضرة (1ساعة/الأسبوع)	رقم الأسبوع
- المقدمة - نظرية ذي الحدين	1
- الكسور الجزئية	2
- توفيق المنحنيات	3
- المصفوفات و المحددات	4
- جبر المصفوفات و المحددات	5
- حل المعادلات الخطية باستخدام المصفوفات أو المحددات	6
امتحان النصف فصلى	7
- النهايات و حساب التفاضل - بعض التطبيقات في حساب التفاضل: المعدلات الزمنية	8
- معادلة المماس و العمودي	9
- النهايات العظمى و الصغرى للدوال	10
- رسم المنحنى	11
- مقدمة في الاحتمالات و الإحصاء: - حساب المتوسط الحسابي	12
- الانحراف القياسي	13
- التباين بعض التطبيقات الرياضية في مجال الصيدلة	14

الامتحان التحريرى

15

هـ أساليب التعليم و التعلم:

- المحاضرة
- التعلم الذاتي

و-أساليب تقييم الطلبة:

1- الامتحان التحريري يقيم: أ1و أ2و أ3و ج1ود1و د2

الجدول الزمني التقييم:

الاسبوع السابع	تقييم (1): الامتحان نصف الفصلي
الأسبوع الخامس عشر	تقييم (2): الامتحان التحريري

ترجيح التقييم:

النسب المئوية	الدرجات	طريقة التقييم
%20	10	الامتحان نصف الفصلي
%80	40	الامتحان التحريري
%100	50	الإجمالي

ز- التسهيلات اللازمة للتعليم و التعلم:

1- للمحاضرات: اللوحات (البيضاء) و السوداء.

ي- قائمة المراجع:

1- مذاكرات المقرر: كتاب الطالب الرياضيات العامة والاحصاء (2019)

2- الكتب الدراسية

الرياضيات العامة والاحصاء

3_ كتب مقترحة

التفاضل والتكامل سلسلة شوم والاحصاء الرياضي

منسق المقرر: أ.د / ياسر عبد العزيز عامر

التاريخ: /2019/9

مصفوفة (1) مقرر الرياضيات و الاحصاء									
نىيات	ة لمادة الرياط	عليمية المستهدف	ئج الت	النتا					
مهارات عامة و تواصلية		المهارات الفكرية	المعرفة و الفهم		المعر	محتويات المقرر			
د2	13	ج1	31	21	11				
					X	المقدمة- نظرية ذات الحدين	1		
X	X				X	الكسور الجزئية	2		
X	X				X	توفيق المنحنيات	3		
X	X				X	المصفوفات و المحددات	4		
X	X				X	جبر المصفوفات و المحددات	5		
X	x				Х	حل المعادلات الخطية باستخدام المصفوفات أو المحددات	6		
х	х				X	النهايات و حساب التفاضل	7		
x	X				x	بعض التطبيقات في حساب التفاضل: المعدلات الز منية	8		
х	x				х	معادلة المماس و العمودي	9		
Х	X				Х	النهايات العظمي و الصغري للدوال	10		
X	х				Х	رسم المنحنى	11		
X	X		x	х		مقدمة في الاحتمالات و الإحصاء: حساب المتوسط الحسابي	12		
х	х		Х			الانحر اف القياسي	13		
х	X		х			التباين- اختبار ت- اختبار ف	14		
		х				بعض التطبيقات الرياضية في مجال الصيدلة	15		

	مصفوفة (2) مقرر الرياضيات و الاحصاء										
أسلوب التقييم	تعليم و التعلم			المصدر	محتويات المقرر	نتائج التعلم	نتائج التعلم	المعايير الأكاديمية المرجعية			
الامتحان التحريري	التعلم الذاتي	الدروس العملية	المحاضرة	المصدر	معتویات المعرر	المنشودة للمقرر	المنشودة للبرنامج	القومية (NARS)			
X			X	كتاب الطالب	المقدمة- نظرية ذي الحدين	11	1 1	2-1 الأساسية و مباديء العلوم و الطبية و الاجتماعية و الصيدلانية			
x			X	كتاب الطالب	مقدمة في الاحتمالات و الإحصاء: حساب المتوسط الحسابي	2أ	1)	و الصُحة و السلوكية الإدارة فضلاعن ممارسة العلوم البينية الصيدلة			
x			x	كتاب الطالب	مقدمة في الاحتمالات و الإحصاء: حساب المتوسط الحسابي	31 351		2-17			
X			X	كتاب الطالب	الانحر اف القياسي		351	طرق التحليل الاحصانية و الحسابات الدوانية			
X			X	كتاب الطالب	التباین- اختبار ت- اختبار ف						
x	X		x	كتاب الطالب و الكتب المقترحة والانترنت	بعض التطبيقات الرياضية في مجال الصيدلة	ج1	ج19	4-14 تحليل و تفسير النتانج التجريبية و كذلك الأبحاث المنشورة			

X	X	X	كتاب الطالب و كتب مقترحة و الانترنت	الكسور الجزئية توفيق المنحنيات المصفوفات و المحددات جبر المصفوفات و المحددات باستخدام المصفوفات أو المعادلات الخطية المعادلات الخطية التفاضل التفاضل عمادلة المماس و العمودي المعادلات الزمنية معادلة المماس و العمودي الصغرى للدوال النهايات العظمى و رسم المنحنى مقدمة في الإحتمالات و حساب المتوسط الحسابي الإحصاء:	12	5.2	4-5 يستخدم الأرقام و الحساب و الطرق الإحصائية فضلا عن تكنولوجيا المعلومات
х		Х	كتاب الطالب	الكسور الجزئية توفيق المنحنيات المصفوفات و المحددات جبر المصفوفات و المحددات المحددات	د2	د11	ينمي مهارات التفكير 10-5 حل المشكلات و اتخاذ النقدي و القرارات

حل المعادلات الخطية باستخدام المصفوفات أو المحددات	
المحددات النهایات و حساب التفاضل	
بعض التطبيقات في حساب التفاضل: المعدلات الزمنية	
معادلة المماس و العمودي	
النهايات العظمي و الصغرى للدو ال	
رسم المنحنى مقدمة في الاحتمالات و الإحصاء:	
حساب المتوسط الحسابي الانحراف القياسي التباين-	

منسق المقرر: أ.د / ياسر عبد العزيز عامر

التاريخ: /2019/9

COURSE SPECIFICATIONS

Human Rights and Professional Ethics

First year – second Term 2019-2020

توصيف مقرر حقوق الإنسان و أخلاقيات المهنة

كلية الصيدلة جامعة الزقازيق أ- مو اصفات المقرر:

البرنامج أو البرامج التي يقدم من خلالها المقرر: بكالوريوس الصيدلة

المقرر يمثل عنصرا رئيسيا أو ثانويا بالنسبة للبرامج: ثانوياً

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

د. ياسمين أحمد شرف المسئول عن تدريس المقرر: دمي احمد محمد

السنة الدراسية: الفرقة الأولى – التيرم الثاني.

تاريخ اعتماد التوصيف:

(ب) البيانات الأساسية:

العنوان: حقوق الإنسان و أخلاقيات المهنة الكود: HR120

الساعات المعتمدة: ---

المحاضرات: ساعتان أسبوعيا

العملي: ---

الدروس العملية: ___

المجموع: 2 ساعة 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:

لمعرفة والفهم	
يعرف المقصود بحقوق الإنسان ومصدرها وأنواع حقوق الإنسان الفردية والجماعية وكيفية حمايتها	11
وكيفية حمايتها	1'
يفهم الفساد وانواعه واسبابه واثاره	اً 2
يعرف كيفية مجابهة الفساد ودور الاجهزة الرقابية في مجابهة الفساد داخل الدولة	31
مهارات العامة والمنقولة	r- 1
يعمل بكفاءة كأحد أفراد الفريق.	د1
ينمي شخصية الفرد من خلال معرفة الحقوق الفردية و الجماعية للإنسان.	د2

د_ المحتويات:

المحاضرة (2ساعة/ الأسبوع)	الأسبوع
<u> </u>	1
- معدمه -التطور التـاريخي لفكرة حقوق	1
الإنسان	
- التعريف بحقوق الإنسان	2
ريب رون م - 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 ودور ها في كاف ة النبياد الإدارية	
مكافحة الفساد الإداري. - الجهاز المركزي للمحاسبات	10
و دوره في مكافحة الفساد الإداري	10
و دوره في منت المسافية المسافية و الإدارة	11
ودوره في مكافحة الفساد الإداري	11
- 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: أ1و أ2و أ3و د1و د2 و د3

2- الامتحان نصف الفصل يقيم: أ1و أ2و أ3و د1و د2 و د3

الجدول الزمني التقييم:

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

ترجيح التقييم:

النسب المئوية	الدرجات	طريقة التقييم
%80	80	الامتحان التحريري
%20	20	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 أخلاقيات المهنة							
ق	محتويات المقرر						
_	ات عام راصلية	•	لفهم	مرفة و ا	مأا		
32	د2	14	31	اً 2	11		
					х	- مقدمة -التطور التاريخي لفكرة حقوق الإنسان	1
					х	- التعريف بحقوق الإنسان - خصائص و مبادئ حقوق الإنسان	2
					Х	مصادر حقوق الإنسان	3
X	х	X			Х	أنواع حقوق الإنسان الفردية والجماعية	4
				X		 مكافحة الفساد(مفهوم الفساد-أنواع وصور الفساد) 	5
				X		- أسباب ا ل فساد	6
				х		- آثار الفساد	7
X	х	X	X			- وسائل مجابهة الفساد(الإطار التشريعي لمكافحة الفساد)	8
			х			- دور الأجهزة الرقابية الوطنية في مكافحة الفساد الإداري - هيئة الرقابة الإداري.	9
			X			- الجهاز المركزي للمحاسبات ودوره في مكافحة الفساد الإداري	10
			X			- الجهاز المركزي للتنظيم والإدارة ودوره في مكافحة الفساد الإداري	11
			X			 - هيئة النيابة الإدارية ودورها في مكافحة الفساد الإداري 	12
			X			 اللجان الأخرى المعنية بمكافحة للفساد فجمهورية مصر العربية: 	13
X	x	X	X	X	X	مراجعة عامة و مناقشة حره	14

مصفوفة 2 مقرر حقوق الإنسان و أخلاقيات المهنة أسلوب أساليب التعليم و التعلم نتائج نتائج التقييم التعلم التعلم المعايير الأكاديمية المرجعية محتويات المقرر المصدر المنشودة المنشودة القومية (NARS) الدروس العملية الامتحان التعلم المحاضرة للمقرر للبرنامج الذاتي التحريري ـ مقدمة المقر ر -التطور التاريخي لفكرة حقوق الإنسان X Х الالكتروني المقرر - التعريف بحقوق الإنسان الالكترونى - خصائص و مبادئ حقوق الإنسان X X اً 1 المقرر مصادر حقوق الإنسان الالكتروني X Х مبادىء العلوم الأساسية و الصيدلانية و الطبية و الاجتماعية و السلوكية و المقرر أنواع حقوق الإنسان الفردية والجماعية 2.1 الإدارة و الصحة و العلوم الالكتروني البيئية فضلا عن ممارسة X X الصبدلة المقرر - مكافحة الفساد(مفهوم الفساد-أنواع وصور الالكترونى X X الفساد) المقرر - أسباب الفساد اً2 X X الالكترونى المقرر - آثار الفساد X X الالكتروني المقرر - وسائل مجابهة الفساد(الإطار التشريعي ار 3 X X الالكتروني لمكافحة الفساد)

х	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				
х	X	المقرر الالكتروني	- الجهاز المركزي للتنظيم والإدارة ودوره في مكافحة الفساد الإداري				
х	х	المقرر الالكتروني	- هيئة النيابة الإدارية ودور ها في مكافحة الفساد الإداري				
х	х	المقرر الالكتروني	- اللجان الأخرى المعنية بمكافحة للفساد فجمهورية مصر العربية:				
х	Х	المقرر الالكتروني	أنواع حقوق الإنسان الفردية والجماعية				
х	х	المقرر الالكتروني	- مكافحة الفساد(مفهوم الفساد-أنواع وصور الفساد)				
x	x	المقرر الالكتروني	- أسباب ا ل فساد				
х	x	المقرر الالكتروني	- اللجان الأخرى المعنية بمكافحة للفساد فجمهورية مصر العربية:				
x	X	المقرر الالكترون <i>ي</i>	أنواع حقوق الإنسان الفردية والجماعية	د1	د أفراد الفريق	يعمل بكفاءة كأح	5.3

x	x	المقرر الالكتروني المقرر	- مكافحة الفساد (مفهوم الفساد-أنواع وصور الفساد) الفساد) - أسباب الفساد		32		
X	X	الالكتروني					
X	X	المقرر الالكتروني	- مقدمة -التطور التاريخي لفكرة حقوق الإنسان				
X	X	المقرر الالكتروني	- التعريف بحقوق الإنسان - خصائص و مبادئ حقوق الإنسان	د2	78	ينمي المهارات الإدارية و التي تشمل التمويل و التسويق و	5.7
X	X	المقرر الالكتروني	مصادر حقوق الإنسان			المبيعات	
X	X	المقرر الالكتروني	أنواع حقوق الإنسان الفردية والجماعية				
X	X	المقرر الالكتروني	- مكافحة الفساد(مفهوم الفساد-أنواع وصور الفساد)				
х	х	المقرر الالكتروني	- أسباب الفساد -				
Х	х	المقرر الالكتروني	- آثار الفساد	52 د	112	ينمي مهارات التفكير النقدي و حل المشكلات و اتخاذ القرارات	5.10
		المقرر الالكتروني	- وسائل مجابهة الفساد(الإطار التشريعي لمكافحة الفساد)				
X	X						

منسق المقرر: د. ياسمين أحمد شرف رئيس القسم: التاريخ: \2019/9