Republic of Iraq Ministry of Higher Education & Scientific Research Supervision and Scientific Evaluation Directorate Quality Assurance and Academic Accreditation InternationalAccreditation Dept.

Academic Program Specification Formfor the Academic Year 2015-2016

University: AL-Mustansaria College: Pharmacy College Number of Departments in the College: 6 Date of Form Completion: 15-5-2016

Dean's Name

Assist. Prof. Monther F.

Mahdi

Date: 15 / 5 / 2016

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Signature

Dean's Assistant forScientific Affairs Lect. Dr. Inam S. Arif Head of department Lect. Dr. Kadhim A. Kadhim

Date: 15 / 5 / 2016 Signature

Date: 15/5/2016 Signature

The College Quality Assurance and University Performance Manager

TEMPLATE FOR PROGRAMME SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

PROGRAMME SPECIFICATION

This Program Specification provides a concise summary of the main features of the program and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It is supported by a specification for each course that contributes to the program.

1. Teaching Institution	AL-Mustansaria University		
2. University Department/Centre	College of pharmacy		
3. Program Title	Part of Bachelor in pharmacy science		
4. Title of Final Award	Bachelor in pharmacy science		
5. Modes of Attendance offered	Semester		
6. Accreditation	ACPE		
7. Other external influences	Laboratory teaching+ hospital training+ Theoretical study		
8. Date of production/revision of	15/ 5/ 2016		
this specification			

9. Aims of the Program

1-make the graduated students able be familiar with reading and processing the medical prescription

2- make the graduated students able to communicate with the patients

3- make the graduated students able to educate the patients about their medications

4- make the graduated students able to dispense medications in prescriptions in hospitals and community pharmacy safely

5-Doses specifications by therapeutic drug monitoring

 10. Learning Outcomes, Teaching, Learning and Assessment Methods A. Knowledge and Understanding A1. familiar with reading and processing the medicine prescription A2. communicate with the patient A3. educate the patients about their medications A4. to dispense medications in hospitals safely A5.to monitor drug level in blood to design new dosage regimen A6. B. Subject-specific skills B1.Communication skills with patients B2.Education skills to patients B3. Pharmacoeconomic skills
 A1. familiar with reading and processing the medicine prescription A2. communicate with the patient A3. educate the patients about their medications A4. to dispense medications in hospitals safely A5.to monitor drug level in blood to design new dosage regimen A6. B. Subject-specific skills B1.Communication skills with patients B2.Education skills to patients
B1.Communication skills with patients B2.Education skills to patients
Teaching and Learning Methods
1-Seminars 2-Teaching lab 3-Hospital training 4-lectures
5-case presentations Assessment methods
1-Queses2-Oral exam3- midterm exam4- Final exam
C. Thinking Skills C1. Not found
Teaching and Learning Methods
Use of white board ,Data show ,Seminars and direct patient education in hospitals
Assessment methods
 1-Queses 2-Oral exam 2- midterm exam 3- Final exam

 D. General and Transferable Skills (other skills relevant to employability andpersonaldevelopment) D1. Able to work in community pharmacy D2. Able to work in hospital pharmacy 								
Teaching a	and Learning M	lethods						
Use of w hospitals		ta show ,Seminars and	d direct pat	ient education in				
Assessmer	nt Methods							
2- midterm	2-Oral exam2- midterm exam3- Final exam							
11. Program	nmed Structure							
Level/ Year	Course or Module Code	Course or Module Title	Credit rating	12. Awards and Credits				
Second	50305210	Communication skills	2	Bachelor Degree				
Third	50305310	Pharmacy ethics	1	Requires (x) credits				
Forth	50305405	Clinical pharmacy1	2+11ab	17				
Forth	50305410	Clinical pharmacy2	2+11ab					
Fifth	50305506	Applied therapeutics	3					
Fifth50305511Applied2therapeutics 21								
Fifth 50305514 Hospital training 2								
Fifth	50305513	Pharmacoeconomy	2					
Fifth	50305512	Therapeutic drug monitoring	2+1 lab					

13. Personal Development Planning

Not found

14. Admission criteria.

15. Key sources of information about the program

1-Robert S. Beardsley, (ed.); Communication Skills in Pharmacy Practice, 5th edition. -1Robert J. Cipolle, Linda M. Strand, Peter C. Morley. Pharmaceutical Care Practice: The Clinician's Guide, 2nd Edition.

2- Robert m. Veatch and Amy Haddad. Case Studies in Pharmacy Ethics. second edition. Copyright © 2008 by Oxford University Press, Inc.

3-ALISON BLENKINSOPP, PAUL PAXTON(eds), Symptoms in the Pharmacy. A Guide to the Management of Common Illness, 6th edition.

4- Roger Walker, Clive Edwards (eds), Clinical Pharmacy & Therapeutics

5-Reference Text: Roger Walker, Clive Edwards (eds), Clinical Pharmacy & Therapeutics.2012

Barbara G.Wells & Joseph T. Diriro, Pharmacotherapy hand book 7th Edittion. 6-Drummond MF, O'Brien B, Stoddart GL, Torrance GW. Methods for the economic evaluation of health care programmes. 3rd ed. Oxford: Oxford University Press, 2005. 7-Applied Clinical Pharmacokinetics, Second Edition, 2008 by Larry A. Bauer.

	Curriculum Skills Map																		
	please tick in the relevant boxes where individual Program Learning Outcomes are being assessed																		
	Program Learning Outcomes																		
Year /	Course Code	Course Title Course Title Optio n (O)	(C) Title or	Knowledge and understanding Subject-specific skills				Thinking Skills			Ski relev	General and Transferable Skills (or) Other skills relevant to employability and personal development		ills vility					
Level				A1	A2	A3	A4	B 1	B2	B 3	B4	C1	C2	C3	C4	D1	D2	D3	D4
Seco	50305210	Communic																\checkmark	+
	503053101	Pharmacy	С	\checkmark														\checkmark	+
Forth	50305405	Clinical	C			\checkmark	\checkmark	\checkmark										\checkmark	+
	50305410	Clinical	С			\checkmark		\checkmark								\checkmark		\checkmark	+
Fifth	50305506	Applied	+			\checkmark	\checkmark											\checkmark	+
	50305511	Applied	С			\checkmark	\checkmark	\checkmark											
	50305512	Therapeuti	С				\checkmark									$\sqrt{}$			+
	50305513	Pharmacoe	С				\checkmark										\checkmark		+

TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve anddemonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

1. Teaching Institution	AL-Mustansaria University					
2. University Department/Centre	College of pharmacy					
3. Course number:	50305210					
4. Modes of Attendance offered	Semester					
5. year / Semester	Semester system					
6. Total no. of hours	30hrs.					
8. Date of production/revision of this specification	15/ 5 /2016					
9. Aims of the Programme						
1-make the graduated students able be familiar with reading and processing the medicine prescription						
2- make the graduated student	s able to communicate with the patient					
2 make the analystal students ship to advect the nations shout their mediactions						

3- make the graduated students able to educate the patients about their medications

4- make the graduated students able to dispense medications in prescriptions in

hospitals and community pharmacy safely

5-Doses specifications by therapeutic drug monitoring

10. Learning Outcomes, Teaching, Learning and Assessment Methods

A. Knowledge and Understanding

A1. familiar with reading and processing the medicine prescription

A2. communicate with the patient

A3. educate the patients about their medications

A4. to dispense medications in hospitals safely

A5.to monitor drug level in blood to design new dosage regimen

B. Subject-specific skills

B1.Communication skills with patients

B2.Education skills to patients

B3. Pharmacoeconomic skills

Teaching and Learning Methods

- Power Points.. Whit board, •
- **Simulators** •
- Guidelines
- Seminars
- Skill lab.
- Lecture/ questions and answer •
- Demonstration,
- Small groups assignment
- Procedures
- Power point slide •
- Case study ٠

- Theory exam. •
- Practical exam •
- Class activities
- Lab. Exam
- Practical evaluation
- Oral exam
- midterm exam
- Final exam
- C. Thinking Skills
 - C1. Interpretation C2. Analysis

 - C3. Evaluation
 - C4. Explanation

	Teaching and Learning Methods
•	PowerPoints Whit board,
•	Simulators
•	Guidelines
•	Seminars
•	Skill lab.
•	Lecture/ questions and answer
•	Demonstration,
•	Small groups assignment
•	Power point slide
•	Case study
	Assessment methods
٠	Theory exam.
•	Practical exam.
•	Class activities
•	Lab. Exam
•	Practical evaluation
•	Oral exam
•	mid term exam
•	Final exam

11. Course Structure: Title of the course: Communication Skills Course number: 50305210Level: 2nd Class, 2st Semester							
Week	Hours	ILOs	Unit/Module or TopicTitle	Teaching Method	Assessment Method		
1	2	Patient- Centere d Commu nication in Pharmac y Practice	Patient-Centered Communication in Pharmacy Practice	Power Points. White board. Lecture	.Theory exam Class activities		
2	2	Principl es and Element s of Interpers onal Commu nication	Principles and Elements of Interpersonal Communication	Power Points. White board, Lecture	.Theory exam Class activities		
3	2	Nonverb al type of commun ication.	Nonverbal type of communication.	Power Points. White board, Lecture	.Theory exam Class activities		
4	2	Barriers to commun ication.	Barriers to communication.	Power Points. White board. Lecture	.Theory exam Class activities		
5	2	Listenin g and empathi c respondi ng during commun ication.	Listening and empathic responding during communication.	Power Points. White board. Lecture	.Theory exam Class activities		
6	2	Assertiv eness.	Assertiveness.	Power Points. White board. Lecture	.Theory exam Class activities		
7	2	Intervie wing and assessm ent.	Interviewing and assessment.	Power Points. White board. Lecture	.Theory exam Class activities		
8	2	Helping patients	Helping patients to manage therapeutic	Power Points.	.Theory exam Class activities		

		4.5		XX 71 · 1 1	
		to	regimens.	White board.	
		manage		Lecture	
		therapeu			
		tic .			
		regimen			
		S.			
	2	Patient	Patient counseling;		
		counseli	counseling check list;		
		ng;	point-by-point		
		counseli	discussion;		
		ng check	counseling scenario.		
		list;		Power Points.	.Theory exam
9		point-		White board.	Class activities
		by-point		Lecture	
		discussi			
		on;			
		counseli			
		ng			
		scenario.			
	2	Medicati	Medication safety		
		on	and communication		
		safety	skills.	Power Points.	.Theory exam
10		and		White board.	Class activities
		commun		Lecture	
		ication			
		skills.			
	2	Strategie	Strategies to meet	Derror Delate	
		s to	specific needs.	Power Points.	.Theory exam
11		meet		White board.	Class activities
		specific		Lecture	
	•	needs.	a b b b b b b b b b b		
	2	Commu	Communicating with		
		nicating	children and elderly		
		with	about medications.	Power Points.	
12		children		White board.	.Theory exam
12		and			Class activities
		elderly about		Lecture	
		medicati			
	2	ons. Commu	Communication skills		
	۷	nication			
		skills	and inter-professional collaboration.		
		and		Power Points.	
13		inter-		White board.	.Theory exam
15		professi			Class activities
		onal		Lecture	
		collabor			
		ation.			
	2	Electron	Electronic		.Theory exam
14	£	ic	communication in	Power Points.	Class activities
		10			

			commun ication in healthca re.	healthcare.		White board, LectureTheor .y exam Class activities	
	15	2	Ethical behavior when commun icating with patients.	Ethical behavior when communicating with patients.		Power Points. White board. Lecture	.Theory exam Class activities
	12. Infra	structure					
]	Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER				Com	bert S. Beardsley munication Skill ice, 5th edition.	
t	Special requirements (include forexample workshops, periodicals,IT software, websites)					verPoints. rnet	
(Community-based facilities (include for example, guest Lectures, internship,field studies)						Not found

13. Admissions				
Pre-requisites	Not found			
Minimum number of students	60			
Maximum number of students	110			

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve anddemonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

1. Teaching Institution	AL-Mustansaria University				
2. University Department/Centre	College of pharmacy				
3. Course number:	50305310				
4. Modes of Attendance offered	Semester				
5. year / Semester	Semester system				
6. Total no. of hours	6 hrs				
8. Date of production/revision of this specification	15 /5 /2016				

9. Aims of the Programme

1-make the graduated students able be familiar with reading and processing the medicine prescription

2- make the graduated students able to communicate with the patient

3- make the graduated students able to educate the patients about their medications

4- make the graduated students able to dispense medications in prescriptions in hospitals and community pharmacy safely

5-Doses specifications by therapeutic drug monitoring

10. Learning Outcomes, Teaching, Learning and Assessment Methods

B. Knowledge and Understanding

- A1. familiar with reading and processing the medicine prescription
- A2. communicate with the patient

A3. educate the patients about their medications

A4. to dispense medications in hospitals safely

A5.to monitor drug level in blood to design new dosage regimen

B. Subject-specific skills

B1.Communication skills with patients

B2.Education skills to patients

B3. Pharmacoeconomic skills

Teaching and Learning Methods

- Power Points.. Whit board,
- Simulators
- Guidelines
- Seminars
- Skill lab.
- Lecture/ questions and answer
- Demonstration,
- Small groups assignment
- Procedures
- Power point slide
- Case study

Assessment methods

- Theory exam.
- Practical exam.
- Class activities
- Lab. Exam
- Practical evaluation
- Oral exam
- midterm exam
- Final exam
- C. Thinking Skills
 - C1. Interpretation
 - C2. Analysis
 - C3. Evaluation
 - C4. Explanation

- PowerPoints.. Whit board,
- Simulators
- Guidelines
- Seminars
- Skill lab.
- Lecture/ questions and answer
- Demonstration,
- Small groups assignment
- Power point slide
- Case study

- Theory exam.
- Practical exam.
- Class activities
- Lab. Exam
- Practical evaluation
- Oral exam
- mid term exam
- Final exam

11. Course Structure Title of the course: <i>Medical ethics</i> Course number: (50305310)								
		Medical et)305310)				
Week	Hours	ILOs	Unit/Module or TopicTitle	Teaching Method	Assessment Method			
1	2	Introducti on to Pharmacy Ethics (Introduction to Pharmacy Ethics (Theoretical considerations).	PowerPoints. White board, Lecture	.Theory exam Class activities			
2	1	Code of Ethics for Pharmac ists.	Code of Ethics for Pharmacists.	Power Points. White board, Lecture	.Theory exam Class activities			
3	3	Commo n Ethical Conside rations in Pharmac eutical Care Practice (Benefic ence, Autono my, Honesty, Informe d Consent, Confide ntiality, Fidelity).	Common Ethical Considerations in Pharmaceutical Care Practice (Beneficence, Autonomy, Honesty, Informed Consent, Confidentiality, Fidelity).	Power Points. White board, Lecture	.Theory exam Class activities			
4	2	Interprof essional Relation s.	Interprofessional Relations.	Power Points. White board, Lecture	.Theory exam Class activities			
5	1	Making ethical decision s.	Making ethical decisions.	Power Points. White board, Lecture	.Theory exam Class activities			
6	1	Ethical issues related to clinical pharmac y	Ethical issues related to clinical pharmacy research.	Power Points. White board, Lecture	.Theory exam Class activities			

		research.				
7	1	Ethical problem s in the pharmac ist's clinical practice.	Ethical problems in the pharmacist's clinical practice.		Power Points. White board, Lecture	.Theory exam Class activities
8	1	Preventi ng misuse of medicin es.	Preventing misuse of medicines.		Power Points. White board, Lecture	.Theory exam Class activities
9	3	Case studies in pharmac y ethics.		studies in nacy ethics.	Power Points. White board, Lecture	.Theory exam Class activities
12. Infra	structure					
· CORE · COUR	Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER			Morley Robert m Studies	y. Pharmaceutica Clinician's. Veatch and Ar in Pharmacy Et	I. Strand, Peter C1 Il Care Practice: The s Guide, 2nd Edition ny Haddad. Case -2 hics. second edition. ord University Press, .Inc
Special requirements (include for example workshops, periodicals, IT software, websites)					.PowerPoints Internet-	
Community-based facilities (include for example, guest Lectures , internship,field studies)						Not needed
13 Adm	13. Admissions					
Pre-requ						Not needed

Pre-requisites	Not needed
Minimum number of students	50
Maximum number of students	100

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve anddemonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

1. Teaching Institution	AL-Mustansaria University		
2. University Department/Centre	College of pharmacy		
3. Course number:	50305405		
4. Modes of Attendance offered	Semester		
5. year / Semester	Semester system		
6. Total no. of hours	32 hrs		
8. Date of production/revision of this specification	15 /5 /2016		

9. Aims of the Programme

1-make the graduated students able be familiar with reading and processing the medicine prescription

2- make the graduated students able to communicate with the patient

3- make the graduated students able to educate the patients about their medications

4- make the graduated students able to dispense medications in prescriptions in hospitals and community pharmacy safely

5-Doses specifications by therapeutic drug monitoring

10. Learning Outcomes, Teaching, Learning and Assessment Methods

C. Knowledge and Understanding

- A1. familiar with reading and processing the medicine prescription
- A2. communicate with the patient
- A3. educate the patients about their medications
- A4. to dispense medications in hospitals safely
- A5.to monitor drug level in blood to design new dosage regimen

B. Subject-specific skills

- B1.Communication skills with patients
- B2.Education skills to patients
- B3. Pharmacoeconomic skills

Teaching and Learning Methods

- Power Points.. Whit board ,
- Simulators
- Guidelines
- Seminars
- Skill lab.
- Lecture/ questions and answer
- Demonstration,
- Small groups assignment
- Procedures
- Power point slide
- Case study

Assessment methods

- Theory exam.
- Practical exam.
- Class activities
- Lab. Exam
- Practical evaluation
- Oral exam
- midterm exam
- Final exam
- C. Thinking Skills
 - C1. Interpretation
 - C2. Analysis
 - C3. Evaluation
 - C4. Explanation

- PowerPoints.. Whit board,
- Simulators
- Guidelines
- Seminars
- Skill lab.

- Lecture/ questions and answer
- Demonstration,
- Small groups assignment
- Power point slide
- Case study

- Theory exam.
- Practical exam.
- Class activities
- Lab. Exam
- Practical evaluation
- Oral exam
- mid term exam
- Final exam

11. Course Structure								
Title of	Title of the course: clinical pharmacy I Course number: (50305405) Level: 4rd Class, 1st Semester							
Week	Hours	ILOs	Unit/Module or TopicTitle	Teaching Method	Assessment Method			
1	2	Introduc tion	Introduction to community pharmacy.	Teaching Method	.Theory exam Class activities			
2	2	Respirat ory problem s:	Respiratory problems: Cough, Common cold, allergic rhinitis, Otitis media, Laryngitis & Pharyngitis	Power Points. White board, Lecture	.Theory exam Class activities			
3	2	G.I.T problem se	G.I.T problemse: Diarrhea, Constipation, Heart burn and indigestion, IBS and Hemorrhoids	Power Points. White board, Lecture	.Theory exam Class activities			
4	2	Pediatric care	Pediatric care practice : Oral thrush, pinworms and head lice	Power Points. White board, Lecture	.Theory exam Class activities			
5	2	Skin conditio ns	Skin conditions: Acne, Scabies, Psoriasis, Hair loss, Fungal infection, Eczema and Dermatitis, Dandruff, Cold sore, Corns and Callus.	Power Points. White board, Lecture	.Theory exam Class activities			
6	2	Women' s health	Women's health care: Cystitis and vaginal thrush, primary dysmenorrhea and Premenstrual syndrome.	Power Points. White board, Lecture	.Theory exam Class activities			
7	2	CNS related	CNS related problems: Headache, Insomnia, Motion sickness, Nausea and vomiting	Power Points. White board, Lecture	.Theory exam Class activities			
8	2	- Eye problem s	- Eye problems	Power Points. White board, Lecture	.Theory exam Class activities			
9	2		ENT problems	Power Points.	.Theory exam			

					White board, Lecture	Class activities
10	2		Oral hygiene, mouth ulcer		Power Points. White board, Lecture	.Theory exam Class activities
12	2		-	y and body control.	Power Points. White board, Lecture	.Theory exam Class activities
13	2		- Pain a muscul disorde	oskeletal	Power Points. White board, Lecture	.Theory exam Class activities
14	2			ne replacement 7 (NRT).	Power Points. White board, Lecture	.Theory exam Class activities
15	2		Dietary supplements		Power Points. White board, Lecture	.Theory exam Class activities
16	2		An update in reclassification of OTC drugs (simvastatin, Tamusotisin & azithromycin).		Power Points. White board, Lecture	.Theory exam Class activities
12. Infra	structure		<u></u>			
CORE 'COURS	Required reading: • CORE TEXTS • COURSE MATERIALS • OTHER			Reference Text: ALISON BLENKINSOPP, PAUL PAXTON(eds), Symptoms in the Pharmacy. A Guide to .the Management of Common Illness, 6th edition Lor waterfield, Community Pharmacy Hand Book, 5th edition		
Special requirements (include for example workshops, periodicals, IT software, websites)				 PowerPoints. Internet 		
Community-based facilities (include for example, guest Lectures , internship , field studies)			lies)			
3. Admiss	sions					
Pre-requisites				Preparation the subjects before entering the classroom		
Minimum	number of	students			70	
Maximun	n number o	f students		110		

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve anddemonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

1. Teaching Institution	AL-Mustansaria University
2. University Department/Centre	College of pharmacy
3. Course number:	50305405
4. Modes of Attendance offered	Semester
5. year / Semester	Semester system
6. Total no. of hours	30 hrs
8. Date of production/revision of this specification	15 /5 /2016

9. Aims of the Programme

1-make the graduated students able be familiar with reading and processing the medicine prescription

2- make the graduated students able to communicate with the patient

3- make the graduated students able to educate the patients about their medications

4- make the graduated students able to dispense medications in prescriptions in hospitals and community pharmacy safely

5-Doses specifications by therapeutic drug monitoring

10. Learning Outcomes, Teaching, Learning and Assessment Methods

D. Knowledge and Understanding

- A1. familiar with reading and processing the medicine prescription
- A2. communicate with the patient
- A3. educate the patients about their medications
- A4. to dispense medications in hospitals safely
- A5.to monitor drug level in blood to design new dosage regimen
- B. Subject-specific skills
 - B1.Communication skills with patients
- B2.Education skills to patients
- B3. Pharmacoeconomic skills

Teaching and Learning Methods

- Power Points.. Whit board,
- Simulators
- Guidelines
- Seminars
- Skill lab.
- Lecture/ questions and answer
- Demonstration,
- Small groups assignment
- Procedures
- Power point slide
- Case study

Assessment methods

- Theory exam.
- Practical exam.
- Class activities
- Lab. Exam
- Practical evaluation
- Oral exam
- midterm exam
- Final exam
- C. Thinking Skills
 - C1. Interpretation
 - C2. Analysis
 - C3. Evaluation
 - C4. Explanation

- PowerPoints.. Whit board,
- Simulators
- Guidelines
- Seminars
- Skill lab.

- Lecture/ questions and answer
- Demonstration,
- Small groups assignment
- Power point slide
- Case study

- Theory exam.
- Practical exam.
- Class activities
- Lab. Exam
- Practical evaluation
- Oral exam
- mid term exam
- Final exam

11. Course Structure: Title of the course: practical Clinical Pharmacy I Level: 4th Class, 1st Semester

Level: 411 Class, 1st Semester								
Week	Hours	ILOs	Unit/Module or TopicTitle	Teaching Method	Assessment Method			
1	2		Communication with patients.	Small group teaching and dialogue	Oral and written exam			
2	2		Respiratory system in practice (part I): Cough.	Small group teaching and dialogue	Oral and written exam			
3	2		Respiratory system in practice (part II): Common cold.	Small group teaching and dialogue	Oral and written exam			
4	2		G.I.T system in practice (part I): Constipation.	Small group teaching and dialogue	Oral and written exam			
5	2		G.I.T system in practice (part II): Diarrhea and IBS.	Small group teaching and dialogue	Oral and written exam			
6	2		GIT system in practice (part III): GERD& indigestion.	Small group teaching and dialogue	Oral and written exam			
7	2		Skin conditions in practice (part I): Hair loss; cold sore and athlete's foot.	Small group teaching and dialogue	Oral and written exam			
8	2		Skin conditions in practice (part II): Dandruff, Eczema and mouth ulcer.	Small group teaching and dialogue	Oral and written exam			
9	2		Skin conditions in practice (part III): warts and scabies.	Small group teaching and dialogue	Oral and written exam			
10	2		Pediatrics in practice: Oral thrush; colic; pinworm and napkin rash.	Small group teaching and dialogue	Oral and written exam			
11	2		Minor eye	Small group	Oral and written			
L	1		J -	0 - F				

			disord practic		teaching and dialogue	exam
12	2		CNS system: Insomnia, motion sickness, obesity and nicotine replacement therapy (NRT).		Small group teaching and dialogue	Oral and written exam
13	2			nformation s for	Small group teaching and dialogue	Oral and written exam
14	2		An update in reclassification of OTC drugs.		Small group teaching and dialogue	Oral and written exam
15	Collec				Small group teaching and dialogue	Oral and written exam
12. Infra	astructure					
· COUH	Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER				BNF	
Special requirements (include for example workshops, periodicals, IT software, websites)				Some medication to learn the student the trade name		the student the trade name
Community-based facilities (include for example, guest Lectures , internship,field studies)					Not neede	d

13. Admissions					
Pre-requisites	Preparation the subjects before entering the classroom				
Minimum number of students	10				
Maximum number of students	30				

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve anddemonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

1. Teaching Institution	AL-Mustansaria University		
2. University Department/Centre	College of pharmacy		
3. Course number:	50305410		
4. Modes of Attendance offered	Semester		
5. year / Semester	Semester system		
6. Total no. of hours	32 hrs		
8. Date of production/revision of this specification	15 /5 /2016		

9. Aims of the Programme

1-make the graduated students able be familiar with reading and processing the medicine prescription

2- make the graduated students able to communicate with the patient

3- make the graduated students able to educate the patients about their medications

4- make the graduated students able to dispense medications in prescriptions in hospitals and community pharmacy safely

5-Doses specifications by therapeutic drug monitoring

10. Learning Outcomes, Teaching, Learning and Assessment Methods

E. Knowledge and Understanding

- A1. familiar with reading and processing the medicine prescription
- A2. communicate with the patient
- A3. educate the patients about their medications
- A4. to dispense medications in hospitals safely
- A5.to monitor drug level in blood to design new dosage regimen

B. Subject-specific skills

- B1.Communication skills with patients
- B2.Education skills to patients
- B3. Pharmacoeconomic skills

Teaching and Learning Methods

- Power Points.. Whit board ,
- Simulators
- Guidelines
- Seminars
- Skill lab.
- Lecture/ questions and answer
- Demonstration,
- Small groups assignment
- Procedures
- Power point slide
- Case study

Assessment methods

- Theory exam.
- Practical exam.
- Class activities
- Lab. Exam
- Practical evaluation
- Oral exam
- midterm exam
- Final exam
- C. Thinking Skills
 - C1. Interpretation
 - C2. Analysis
 - C3. Evaluation
 - C4. Explanation

- PowerPoints.. Whit board,
- Simulators
- Guidelines
- Seminars
- Skill lab.

- Lecture/ questions and answer
- Demonstration,
- Small groups assignment
- Power point slide
- Case study

- Theory exam.
- Practical exam.
- Class activities
- Lab. Exam
- Practical evaluation
- Oral exam
- mid term exam
- Final exam

11. Course Structure : Title of the course: Clinical Pharmacy IICourse number (50305410) Level: 4th Class, 2nd Semester

(50305410) Level: 4th Class, 2nd Semester								
Week	Hours	ILOs	Unit/Module or TopicTitle	Teaching Method	Assessment Method			
1	2		Introduction to the concept of clinical pharmacy- its activities and professional responsibilities.(including current state of clinical pharmacy in Iraq).	Whit board, Lecture	.Theory exam Class activities			
2	2		overview of pharmaceutical care practice (the patient care process).	PowerPoints Whit board, Lecture	.Theory exam Class activities			
3	2		Hematologic disorders: Anemia and sickle cell disease.	PowerPoints Whit board, Lecture	.Theory exam Class activities			
4	2		Hypertension. Heart failure.	PowerPoints. Whit board, Lecture	.Theory exam Class activities			
5	2		Ischemic heart diseases. Peripheral vascular diseases.	Whit board, Lecture	.Theory exam Class activities			
6	2		- Asthma. Chronic obstructive pulmonary disease (COPD).	Whit board, Lecture	.Theory exam Class activities			
7	2		Diabetes mellitus & Diabetic ketoacidosis (DKA) .	Whit board, Lecture	.Theory exam Class activities			
8	2		Peptic ulcer disease.	Whit board, Lecture	.Theory exam Class activities			
9	2		Tuberculosis . Infective meningitis	Whit board, Lecture	.Theory exam Class activities			
10	2		Respiratory tract infections. GIT infections	Whit board, Lecture	.Theory exam Class activities			
11	2		Gout and hyperuricemia	Whit board, Lecture	.Theory exam Class activities			
12	2		Rheumatoid arthritis (RA) and osteoarthritis (OA)	Whit board, Lecture	.Theory exam Class activities			
13	2		Osteoporosis and other metabolic bone disease.	Whit board, Lecture	.Theory exam Class activities			

14 15	2		Infectious Endocarditis Surgical antibiotic prophylaxis		Whit board, Lecture Whit board, Lecture	.Theory exam Class activities .Theory exam Class activities
16	2		Review exam	before final		
12. Infra	structure					
Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER				Roger W		wards (eds), Clinical nacy & Therapeutics
example		ents (inclu ps, period ites)				No need
Community-based facilities (include for example, guest Lectures, internship,field studies)					No need	
13. Admissions						
15. Admissions						
Pre-requisites			Preparation the subjects before entering the classroom			

Minimum number of students	50
Maximum number of students	100

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve anddemonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

1. Teaching Institution	AL-Mustansaria University			
2. University Department/Centre	College of pharmacy			
3. Course number:	50305506			
4. Modes of Attendance offered	Semester			
5. year / Semester	Semester system			
6. Total no. of hours	42 hrs			
8. Date of production/revision of this specification	15 /5 /2016			

9. Aims of the Programme

1-make the graduated students able be familiar with reading and processing the medicine prescription

2- make the graduated students able to communicate with the patient

3- make the graduated students able to educate the patients about their medications

4- make the graduated students able to dispense medications in prescriptions in hospitals and community pharmacy safely

5-Doses specifications by therapeutic drug monitoring

10. Learning Outcomes, Teaching, Learning and Assessment Methods

F.	Knowled	ge and	Understanding	
1.		ge and	Onderstanding	

- A1. familiar with reading and processing the medicine prescription
- A2. communicate with the patient
- A3. educate the patients about their medications
- A4. to dispense medications in hospitals safely
- A5.to monitor drug level in blood to design new dosage regimen
- B. Subject-specific skills
 - B1.Communication skills with patients
 - B2.Education skills to patients
- B3. Pharmacoeconomic skills

Teaching and Learning Methods

- Power Points.. Whit board,
- Simulators
- Guidelines
- Seminars
- Skill lab.
- Lecture/ questions and answer
- Demonstration,
- Small groups assignment
- Procedures
- Power point slide
- Case study

Assessment methods

- Theory exam.
- Practical exam.
- Class activities
- Lab. Exam
- Practical evaluation
- Oral exam
- midterm exam
- Final exam
- C. Thinking Skills
- C1. Interpretation
 - C2. Analysis
 - C3. Evaluation
- C4. Explanation

- PowerPoints.. Whit board,
- Simulators
- Guidelines
- Seminars
- Skill lab.
- Lecture/ questions and answer

- Demonstration,
- Small groups assignment
- Power point slide
- Case study

- Theory exam.
- Practical exam.
- Class activities
- Lab. Exam
- Practical evaluation
- Oral exam
- mid term exam
- Final exam

11. Course Structure: Title of the course: Therapeutic I Course number (50305506)Level: 5th Class, 1st Semester						
Week	Hours	ILOs	Unit/Module or Topic Title		Teaching Method	Assessment Method
1	3		Acute coronary syndrome.		Lecture	.Theory exam
2	3		Arrhythm	nias	Whit board,	.Theory exam
3	3		Thrombo	osis. Stroke	Lecture	.Theory exam
4	3		Dyslipid	emia. Shock	Whit board,	.Theory exam
5	3		Parkinson's disease. Epilepsy and status epilepticus		Lecture	.Theory exam
6	3		Viral hepatitis. Liver cirrhosis		Lecture	.Theory exam
7	3		Glaucoma. multiple sclerosis.		Whit board,	.Theory exam
8	3		Acute renal failure (ARF)		Whit board,	.Theory exam
9	3		Chronic renal failure (CRF). Hemodialysis and peritoneal dialysis		Lecture	.Theory exam
10	3		Parenteral nutrition. Enteral nutrition		Whit board,	.Theory exam
11	3		Urinary incontinence and pediatric enuresis		Whit board,	.Theory exam
12	3		Interpretation of Lab. data.		Lecture	.Theory exam
13	3		Disorders of fluid and electrolytes. Acid – base disorders		Whit board,	.Theory exam
14	3		Systemic lupus erythematosis (SLE). Inflammatory bowel diseases		Lecture	.Theory exam
12. Inf	rastructui	e				
Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER		Reference Text: Roger Walker, Clive Edwards (eds), Clinical Pharmacy & Therapeutics.2012 Barbara G.Wells & Joseph T. Diriro, Pharmacotherapy hand book 7th Edittion.				
Special requirements (include for example workshops, periodicals, IT software, websites)		No need				

Community-based facilities (include for example, guest Lectures , internship , field studies)

13. Admissions	
Pre-requisites	Preparation the subjects before entering the classroom
Minimum number of students	50
Maximum number of students	100

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve anddemonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

1. Teaching Institution	AL-Mustansaria University		
2. University Department/Centre	College of pharmacy		
3. Course number:	50305512		
4. Modes of Attendance offered	Semester		
5. year / Semester	Semester system		
6. Total no. of hours	30 hrs		
8. Date of production/revision of this specification	15 /5 /2016		

9. Aims of the Programme

1-make the graduated students able be familiar with reading and processing the medicine prescription

2- make the graduated students able to communicate with the patient

3- make the graduated students able to educate the patients about their medications

4- make the graduated students able to dispense medications in prescriptions in hospitals and community pharmacy safely

5-Doses specifications by therapeutic drug monitoring

10. Learning Outcomes, Teaching, Learning and Assessment Methods

G. Knowledge and Understanding

A1. familiar with reading and processing the medicine prescription

A2. communicate with the patient

A3. educate the patients about their medications

A4. to dispense medications in hospitals safely

A5.to monitor drug level in blood to design new dosage regimen

B. Subject-specific skills

B1.Communication skills with patients

B2.Education skills to patients

B3. Pharmacoeconomic skills

Teaching and Learning Methods

- Power Points.. Whit board,
- Simulators
- Guidelines
- Seminars
- Skill lab.
- Lecture/ questions and answer
- Demonstration,
- Small groups assignment
- Procedures
- Power point slide
- Case study

- Theory exam.
- Practical exam.
- Class activities
- Lab. Exam
- Practical evaluation
- Oral exam
- midterm exam
- Final exam

- C. Thinking Skills C1. Interpretation C2. Analysis

 - C3. Evaluation
 - C4. Explanation

Teaching and Learning Methods

- Power Points.. Whit board
- Simulators •
- Guidelines •
- Seminars •
- Skill lab. •
- Lecture/ questions and answer
- Demonstration,
- Small groups assignment •
- Power point slide
- Case study

- Theory exam. •
- Practical exam. •
- Class activities •
- Lab. Exam
- Practical evaluation •
- Oral exam •
- mid term exam ٠
- Final exam •

11. Course Structure : Title of the course: Therapeutic IICourse number (50305512)Level: 5th Class, 2nd Semester						
Week	Hours	ILOs		/Module or opicTitle	Teaching Method	Assessment Method
1	2		Thyroid and parathyroid disorders		Whit board,	.Theory exam
2	2		Endom	etriosis	Lecture	.Theory exam
3	2		Contraception		Whit board,	.Theory exam
4	2		disorde	ruation related rs. Hormonal ment therapy	Lecture	.Theory exam
5	2		Cancer chemot	r treatment and herapy	Lecture	.Theory exam
6	2		Leuke	mias	Whit board,	.Theory exam
7	2		Lymphomas and Multiple myeloma		Lecture	.Theory exam
8	2		Breast and prostate cancers		Whit board,	.Theory exam
9	2		colorectal cancer			
10	2		Alzheimer's disease		Lecture	.Theory exam
11	2		Depres	ssive disorders	Lecture	.Theory exam
12	2		Anxiety disorders. Sleep disorders		Whit board,	.Theory exam
13	2		Bipolar disorders		Whit board,	.Theory exam
14	2		Adrenal gland disorders		Lecture	
15	2		Schizo	phrenia	Lecture	.Theory exam
12. Infra	structure					
Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER					Clinical Pharma lls & Joseph T. Dir	er, Clive Edwards (eds), cy & Therapeutics.2012 iro, Pharmacotherapy
Special requirements (include for example workshops, periodicals, IT software, websites)						No need
Community-based facilities (include for example, guest Lectures , internship , field studies)			lies)			No need
13. Admissions						
Pre-requis	sites]	Preparation the s	subjects before ente	ering the classroom
Minimum	Minimum number of students 5					

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve anddemonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

1. Teaching Institution	AL-Mustansaria University		
2. University Department/Centre	College of pharmacy		
3. Course number:	50305514		
4. Modes of Attendance offered	Semester		
5. year / Semester	Semester system		
6. Total no. of hours	116 hrs		
8. Date of production/revision of this specification	15 /5 /2016		

9. Aims of the Programme

1-make the graduated students able be familiar with reading and processing the medicine prescription

2- make the graduated students able to communicate with the patient

3- make the graduated students able to educate the patients about their medications

4- make the graduated students able to dispense medications in prescriptions in hospitals and community pharmacy safely

5-Doses specifications by therapeutic drug monitoring

10. Learning Outcomes, Teaching, Learning and Assessment Methods

H. Know	ledge and	Understanding
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- A1. familiar with reading and processing the medicine prescription
- A2. communicate with the patient
- A3. educate the patients about their medications
- A4. to dispense medications in hospitals safely
- A5.to monitor drug level in blood to design new dosage regimen
- B. Subject-specific skills
- B1.Communication skills with patients
- B2.Education skills to patients
- B3. Pharmacoeconomic skills

Teaching and Learning Methods

- Power Points.. Whit board,
- Simulators

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- Guidelines
- Seminars
- Skill lab.
- Lecture/ questions and answer
- Demonstration,
- Small groups assignment
- Procedures
- Power point slide
- Case study

Assessment methods

- Theory exam.
- Practical exam.
- Class activities
- Lab. Exam
- Practical evaluation
- Oral exam
- midterm exam
- Final exam
- C. Thinking Skills
 - C1. Interpretation
 - C2. Analysis
 - C3. Evaluation
 - C4. Explanation

Teaching and Learning Methods

- Power Points.. Whit board
- Simulators
- Guidelines
- Seminars
- Skill lab.
- Lecture/ questions and answer

- Demonstration,
- Small groups assignment
- Power point slide
- Case study

- Theory exam.
- Practical exam.
- Class activities
- Lab. Exam
- Practical evaluation
- Oral exam
- mid term exam
- Final exam

11. Course Structure: Title of the course: Hospital TrainingCourse number: (50305514)Level: 5th Class, annual								
Week	Hou rs	ILOs	Unit/Module or To Title		Teaching Method	Assessment Method		
	Surgical ward							
1	4		Pre-operative Care		e presentation tures,	Oral exam, case exam ,theory exam		
2	4		Post-operative Care		e presentation tures,	Oral exam, case exam ,theory exam		
3	4		I.V fluids, Anesthesia		e presentation tures,	Oral exam, case exam ,theory exam		
4	4		Hernia		e presentation tures,	Oral exam, case exam ,theory exam		
5	4		Diabetic foot		e presentation tures,	Oral exam, case exam ,theory exam		
6	4		Cholelithiasis			Oral exam, case exam ,theory exam		
7	4		Breast Cancer		e presentation tures,	Oral exam, case exam ,theory exam		
8	4		Acute Appendicitis		e presentation tures,	Oral exam, case exam ,theory exam		
9	4		DVT		e presentation tures,	Oral exam, case exam ,theory exam		
10	4		Nephrolithiasis		e presentation tures,	Oral exam, case exam ,theory exam		
			Exam and case presentation					
	Internal Medicine Ward							
1	4		Hypertension		e presentation tures,	Oral exam, case exam ,theory exam		
2	4		Ischemic Heart Disease		e presentation tures,	Oral exam, case exam ,theory exam		
3	4		Asthma			Oral exam, case exam ,theory exam		
4	4		Peptic Ulcer		e presentatin ctures ,	Oral exam, case exam ,theory exam		
5	4		Acute Renal Failure		e presentation tures,	Oral exam, case exam ,theory exam		
6	4		Diabetes mellitus		e presentation tures,	Oral exam, case exam ,theory exam		
7	4		Anemia		e presentation tures,	Oral exam, case exam ,theory exam		
8	4		Heart Failure			Oral exam, case exam ,theory exam		
9	4		COPD		e presentation tures,	Oral exam, case exam ,theory exam		
10	4		Chronic Renal Failure		e presentation tures,	Oral exam, case exam ,theory exam		
	4		Exam and case presentation					

	Gynecological and pediatric ward							
1	4	Abortion		Case presentation ,lectures ,	Oral exam, case exam ,theory exam			
2	4	Gestational diabetes		Case presentation ,lectures ,	Oral exam, case exam ,theory exam			
3	4		Thyroid, seizure, anemia, UTI in pregnancy	Case presentation ,lectures ,	Oral exam, case exam ,theory exam			
4	4		Preterm labour and Cesarian section	Case presentation ,lectures ,	Oral exam, case exam ,theory exam			
5	4		Ovarian cysts, Endometeriosis. Some gynecologic drugs		Oral exam, case exam ,theory exam			
6	4		Pediatrics: Febrile convulsion, hyperbilirubinemia,	Case presentation ,lectures ,	Oral exam, case exam ,theory exam			
7	4		Hypertensive disorder	Case presentation ,lectures ,	Oral exam, case exam ,theory exam			
8	4		Ectopic pregnancy & H-mole	Case presentation ,lectures ,	Oral exam, case exam ,theory exam			
9	4		acute respiratory distress syndrome, GI disorders	Case presentation ,lectures ,	Oral exam, case exam ,theory exam			
			Exam and case presentation					
			Final Exam					

13. Admissions		
Pre-requisites	Not need	
Minimum number of students	10	
Maximum number of students	20	

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve anddemonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

1. Teaching Institution	AL-Mustansaria University		
2. University	College of pharmacy		
Department/Centre			
3. Course number:	50305513		
4. Modes of Attendance offered	Semester		
5. year / Semester	Semester system		
6. Total no. of hours	26 hrs		
8. Date of production/revision of this specification	23 /6 /2016		

9. Aims of the Programme

1-make the graduated students able be familiar with reading and processing the medicine prescription

2- make the graduated students able to communicate with the patient

3- make the graduated students able to educate the patients about their medications

4- make the graduated students able to dispense medications in prescriptions in hospitals and community pharmacy safely

5-Doses specifications by therapeutic drug monitoring

10. Learning Outcomes, Teaching, Learning and Assessment Methods

 I. Knowledge and Understanding A1. familiar with reading and processing the medicine prescription A2. communicate with the patient A3. educate the patients about their medications A4. to dispense medications in hospitals safely A5.to monitor drug level in blood to design new dosage regimen
D. Subject specific shills
B. Subject-specific skills B1.Communication skills with patients B2.Education skills to patients B3. Pharmacoeconomic skills
Teaching and Learning Methods
 Power Points Whit board , Simulators Guidelines Seminars Skill lab. Lecture/ questions and answer Demonstration, Small groups assignment Procedures
Power point slide
Case study
Assessment methods
 Theory exam. Practical exam. Class activities Lab. Exam Practical evaluation Oral exam midterm exam Final exam C. Thinking Skills C1. Interpretation
C2. Analysis C3. Evaluation C4. Explanation Teaching and Learning Methods
 PowerPoints Whit board , Simulators Guidelines Seminars Skill lab. Lecture/ questions and answer

- Demonstration,
- Small groups assignment
- Power point slide
- Case study

- Theory exam.
- Practical exam.
- Class activities
- Lab. Exam
- Practical evaluation
- Oral exam
- mid term exam
- Final exam

	11. Course Structure: Title of the course: Pharmacoeconomy Course number:50305513Level: 5th Class, 2nd Semester					
Week	Hours	ILOs	Unit/Module or TopicTitle	Teaching Method	Assessment Method	
1	2		Course overview & basic principle of pharmacoeconomics	White board lecture, PowerPoints	.Theory exam	
2	2		Cost analysis	White board lecture, PowerPoints	.Theory exam	
3	2		Cost effectiveness analyses (CEA).	White board lecture, PowerPoints	.Theory exam	
4	2		1 _{st} mid-term examination.	White board lecture, PowerPoints	.Theory exam	
5	2		Cost utility analyses (CUA).	White board lecture, PowerPoints	.Theory exam	
6	2		Cost-benefit analysis (CBA)	White board lecture, PowerPoints	.Theory exam	
7	4		Critical assessment of economic evaluation	White board lecture, PowerPoints	.Theory exam	
8	2		2nd mid-term examination.	White board lecture, PowerPoints	.Theory exam	
9	2		Drug-focused versus disease-focused frame work for conducting pharmacoeconomic analyses.	White board lecture, PowerPoints	.Theory exam	
10	2		Introduction to epidemiology.	White board lecture, PowerPoints	.Theory exam	
11	2		Project presentation.	White board lecture, PowerPoints	.Theory exam	
12	2		Project presentation.	White board lecture, PowerPoints	.Theory exam	

12. Infrastructure	
Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	Drummond MF, O'Brien B, Stoddart GL, Torrance GW. Methods for the economic evaluation of health care programmes. 3rd ed. Oxford: Oxford University Press, 2005. Bootman JL, Townsend RJ, McGhan WF, (Eds.), Principles of Pharmacoeconomics, 2nd ed., Harvey Whitney Books Company, Cincinnati, Oh, latest edition
Special requirements (include for example workshops, periodicals, IT software, websites)	Not needed
Community-based facilities (include for example, guest Lectures , internship,field studies)	

13. Admissions	
Pre-requisites	Not needed
Minimum number of students	50
Maximum number of students	100

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve anddemonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

1. Teaching Institution	AL-Mustansaria University		
2. University Department/Centre	College of pharmacy		
3. Course number:	50305512		
4. Modes of Attendance offered	Semester		
5. year / Semester	Semester system		
6. Total no. of hours	24 hrs		
8. Date of production/revision of this specification	23 /6 /2016		

9. Aims of the Programme

1-make the graduated students able be familiar with reading and processing the medicine prescription

2- make the graduated students able to communicate with the patient

3- make the graduated students able to educate the patients about their medications

4- make the graduated students able to dispense medications in prescriptions in hospitals and community pharmacy safely

5-Doses specifications by therapeutic drug monitoring

10. Learning Outcomes, Teaching, Learning and Assessment Methods

 J. Knowledge and Understanding A1. familiar with reading and processing the medicine prescription A2. communicate with the patient A3. educate the patients about their medications A4. to dispense medications in hospitals safely A5.to monitor drug level in blood to design new dosage regimen
B. Subject-specific skills B1.Communication skills with patients B2.Education skills to patients B3. Pharmacoeconomic skills
Teaching and Learning Methods
 Power Points Whit board , Simulators Guidelines Seminars Skill lab. Lecture/ questions and answer Demonstration, Small groups assignment Procedures Power point slide Case study
Case study Assessment methods
 Theory exam. Practical exam. Class activities Lab. Exam Practical evaluation Oral exam midterm exam Final exam
C. Thinking Skills C1. Interpretation C2. Analysis C3. Evaluation C4. Explanation Teaching and Learning Methods
 PowerPoints Whit board , Simulators Guidelines Seminars Strill tab

- Skill lab.
- Lecture/ questions and answer

- Demonstration,
- Small groups assignment
- Power point slide
- Case study

- Theory exam.
- Practical exam.
- Class activities
- Lab. Exam
- Practical evaluation
- Oral exam
- mid term exam
- Final exam

11. Course Structure: Title of the course: TDM Course number: 50305512Level: 5th Class, 2nd Semester					
Week	Hours	ILOs	Unit/Module or TopicTitle	Teaching Method	Assessment Method
1	2		Review of basic pharmacokinetic (PK) and pharmacodynamic (PD)	White board lecture, PowerPoints	Theory exam
2	2		Clinical PK equations and calculations	White board lecture, PowerPoints	Theory exam
3	2		Clinical PK in special population and cases	White board lecture, PowerPoints	Theory exam
4	2		Clinical PK/PD for Aminoglycosides	White board lecture, PowerPoints	Theory exam
5	2		Clinical PK/PD for Vancomycin	White board lecture, PowerPoints	Theory exam
6	2		Clinical PK/PD for Digoxin	White board lecture, PowerPoints	Theory exam
7	2		Clinical PK/PD for Phenytoin	White board lecture, PowerPoints	Theory exam
8	2		Clinical PK/PD for other Anticonvulsants (e.g., Carbamazepine, Valproic Acid, Phenobarbitone/Primi done, Ethosuxsimide	White board lecture, PowerPoints	Theory exam
9	2		Clinical PK/PD for Theophylline	White board lecture, PowerPoints	Theory exam
10	2		Clinical PK/PD for Immunossprasants (e.g., Cyclosporine, Tacrolimus	White board lecture, PowerPoints	Theory exam
11	2		Clinical PK/PD for other Cardiovascular agents (e.g., Lidocaine, Procainamide/N- Acetyl Procainamide	White board lecture, PowerPoints	Theory exam
12	2		Clinical PK/PD of other drugs (e.g., Lithium), Anticancer	White board lecture, PowerPoints	Theory exam

	agents, and Anticoagulats					
12. Infrastructure						
Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	Applied Clinical Pharmacokinetics, Second .Edition, 2008 by Larry A. Bauer					
Special requirements (includ example workshops, periodi IT software, websites)						
Community-based facilities (include for example, guest Lectures , internship,field studies)	Not needed					
13. Admissions						
Pre-requisites	Not needed					
Minimum number of student	5 50					

100

Maximum number of students