

Master Degree Log book of Pharmacology

PHA200



” كراسية الأنشطة ”

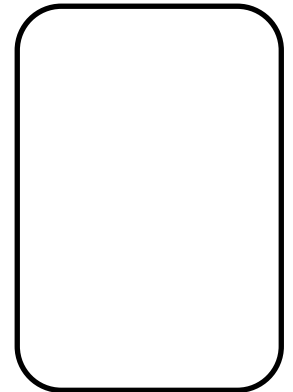
اللازمة لحصول المتدرب على درجة الماجستير
2023-2022

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Personal photo



Name.....
Date of birth.....
Address.....
Place of work.....
Telephones..... Mobile phone(s).....
E mail.....

Name of hospital	Period of work	Hospital director signature

Academic Information

MBBCh...../...../..... University Grade

Grade of Internal Medicine course on graduation

Others...../...../..... University

...../...../..... University



*** Aim of the activities book**

To provide one source of evidence for the assessment committee that you attained the desired level of competency required to gain the award.

In this book you will document all clinical, academic and other experiences and skills you attained during your training.

Sections of the book

For each module / course / rotation

You should fill the following sections:-

1- Practical log

1- You will first find list with all required experiments in the concerned module and the minimum number of experiments you must get exposed to and level of participation you should achieve for each type of experiments.

2- You should record all experiments in the module and each experiment should be signed by your trainer.

2- Practical presentation log

Record the experiments related to the module that you have presented in a seminar of the activity.

3- Procedures / operations log

- 1- You will find a list for required procedure, diagnostic – therapeutic operations and level of desired performance you should achieve at the end of training.
- 2- You will find empty tables to write down the procedure, you level of participation and date and signature of supervisor.

4- Rotation / attendance proof

You should have evidence of achievement the required training hours within each module.

For the whole program fill the following sections

1- Academic activities

A- Document all academic activities e.g. lecture, journal clubs, workshops, conference, services attended. This documentation should include the level of participation " attendance, preparation, presentation,....."

2- Academic achievements

A- Document all outcomes you achieved in the field of:-

- Audit participation
- Research "clinical trial" participation.
- Evidence- based medicine "generation of guidelines" protocols
-

3- Formative assessment log

This document all types of formative assessment attended e.g.:-

- Mini clinical examination
- Quiseses



Program Aims

- 1/1. Demonstrate a core understanding of concepts associated with the scientific basis of human pharmacology.
- 1/2. To introduce candidates to the basics of scientific medical research.
- 1/3. Acquire the ability to communicate effectively in verbal and written form with clinical colleagues, administrative personnel, and technical personnel and demonstrate respectful and caring behavior when interacting with patients and their families.
- 1/4. Acquire life-long habits of reading, literature searches, and consultation with colleagues, attendance at scientific meetings, and the presentation of scientific work that is essential for continuing professional development.
- 1/5 Develop a critical evaluation of techniques used in experimental and clinical pharmacology.

Curriculum Structure:

Duration of program 36 months

n.b. Fulfillment of the requirements in each course as described in the template and registered in the log book is a pre-request for candidates to be assessed and undertake part 1 and part 2 examinations.

Program Structure

Program Time Table

Duration of program 3 years maximally 5 years divided into

o Part 1

Program-related basic science courses and ILOs + elective courses

Students are allowed to set the exams of these courses after 12 months from applying to the MSc degree .



o **Thesis**

For the MSc thesis:

MSc thesis subject should be officially registered within 6 months from application to the MSc degree.

Discussion and acceptance of the thesis should not be set before 12 months from registering the MSc subject .

It could be discussed and accepted before passing the second part of examination.

o **Part 2**

Program –related speciality courses and ILOs

Students are not allowed to set the exams of these courses before 3 years from applying to the MSc degree.

n.b. Fulfillment of the requirements in each course as described in the template and registered in the log book is a pre-request for candidates to be assessed and undertake part 1 and part 2 examinations.



First Part

Academic activities of basic sciences

Practice with academic and clinical departments during year 1

Pharmacology & Physiology Department.

Or

Pharmacology & Biochemistry Departments.

Or

Pharmacology & Microbiology Department.

Course 1

Candidate will choose between one of the following courses:

1-Pharmacology and Physiology.PHA203

2-Pharmacology and Biochemistry. PHA204

3-Pharmacology and Microbiology PHA207



Pharmacology and Physiology.PHA203

Requirements

- **Credit points: 8** credit point for didactic (lectures, seminars, tutorial) and **10** point for training.
- ✚ Minimal rate of attendance 80% of didactic and training



Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Pharmacology and physiology	1	Pharmacology Physiology	(10 hours) Central nervous system	12.5%
	1		(10 hours) Autonomic nervous system	12.5%
	1		(10 hours) Cardiovascular system	12.5%
	1		(10 hours) Respiratory system	12.5%
	1		(10 hours) Digestive system	12.5%
	1		(10 hours) Endocrinology	12.5%
	1		(10 hours) Hematology	12.5%
	1		(10 hours) nutrition	12.5%
Student signature			Principle coordinator Signature	Head of the department signature



(Lectures)

Date	Attendance	Topic	Signature

Laboratory training	Credit points	Responsible department	Attendance	Percentage of Achieved points
Training at Physiology and Pharmacology labs	2	Physiology and Pharmacology	Attendance of physiology lab for 2 weeks for performing: Preparation of different physiological solutions	20%
	1		Attendance of physiology and pharmacology labs for 1 weeks to perform Handling of experimental animals	10%
	1		Attendance of physiology and pharmacology labs for 1 weeks to perform Tissue homogenization and preparation	10%
	1		Attendance of physiology and pharmacology labs for 1 weeks to perform Drug action on isolated intestine	10%
	1		Attendance of physiology and pharmacology labs for 1 weeks to perform Drug action on isolated heart	10%
	1		Attendance of physiology and pharmacology labs for 1 weeks to perform Drug action on isolated rectus abdominus muscle	10%
	1		Attendance of physiology and pharmacology labs for 1 weeks to perform Drug action on blood pressure	10%
	1			Attendance of Computer lab for 1 week for training on: Use



			information technology in recent advances in CNS cellular pharmacology	
	1		Attendance of Computer lab for 1 week for training on: Use information technology in recent advances in drugs acting on neurotransmitter's effect modulation.	10%
Student signature			Principle coordinator Signature	Head of the department Signature

Practical log

H.N	Test or experiment	Level of participation *	Location	Signature of supervisor

* Level of participation
A- Plan and carry out

B- Carry out

C- Carry out under supervision



Practical log

H.N	Test or experiment	Level of participation *	Location	Signature of supervisor

- * Level of participation
 - A- Plan and carry out
 - B- Carry out
 - C- Carry out under supervision



Pharmacology and Biochemistry.PHA204

Requirements

- **Credit points: 8** credit point for didactic (lectures, seminars, tutorial) and **10** point for training.
- ✚ Minimal rate of attendance 80% of didactic and training

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Pharmacology Biochemistry	1	Pharmacology Biochemistry	(10 hours) General pharmacology + receptors and 2nd messengers	12.5%
	1		(10 hours) - Autonomic nervous system + carbohydrate Metabolism	12.5%
	1		(10 hours) cardiovascular system + Fat Metabolism	12.5%
	1		(10 hours) Molecular biology	12.5%
	1		(10 hours) Protein Metabolism	12.5%
	1		(10 hours) Hormones and enzymology	12.5%
	1		(10 hours) free radicals and antioxidants	12.5%
	1		(10 hours) minerals and vitamins	12.5%
Student signature			Principle coordinator Signature	Head of the department signature
20				



(Lectures)

Date	Attendance	Topic	Signature



laboratory training	Credit points	Responsible department	Attendance	Percentage of Achieved points
Training at Bio and Pharmacology labs	2	Biochemistry and Pharmacology	Attendance of Pharmacology and Bio labs for 2 weeks to perform Different methods of collection and preparation of body fluid samples.	20%
	1		Attendance of Pharmacology labs for 1 weeks to perform Handling of experimental animals	10%
	1		Attendance of Pharmacology and Bio labs for 1 weeks to perform Tissue homogenization and preparation & Chemical methods of measurement of some indices	10%
	1		Attendance of Pharmacology labs for 1 weeks to perform Preparation of different physiological solutions & Drugs action on isolated intestine	10%
	1		Attendance of Pharmacology lab for 1 weeks to perform Drugs action on isolated heart & Write and evaluate of the reports.	10%
	1		Attendance of Bio labs for 1 weeks to perform Estimation of some indices by kits (ELISA)	10%
	1		Attendance of Pharmacology labs for 1 weeks to perform Drug action on blood pressure	10%
			1	
	1		Attendance of Computer lab for 1 week for training on: Use information technology in recent advances in drugs acting on neuro-transmitter's effect modulation.	10%
Student signature			Principle coordinator Signature	Head of the department signature



Practical log

H.N	Test or experiment	Level of participation *	Location	Signature of supervisor

- * Level of participation

 - A- Plan and carry out
 - B- Carry out
 - C- Carry out under supervision



Practical log

H.N	Test or experiment	Level of participation *	Location	Signature of supervisor

- * Level of participation
 - A- Plan and carry out
 - B- Carry out
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Practical log

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- * Level of participation
- A- Plan and carry out
- B- Carry out
- C- Carry out under supervision



Pharmacology and Microbiology.PHA207

Requirements

- **Credit points: 8** credit point for didactic (lectures, seminars, tutorial) and **10** point for training.

Minimal rate of attendance 80% of didactic and training



Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Pharmacology Microbiology	1	Pharmacology	10 hours General pharmacology	12.5%
	1	Microbiology	10 hours Autonomic nervous system	12.5%
	1		10 hours cardiovascular system	12.5%
	1		10 hours Molecular biology	12.5%
	1		10 hours immunology	12.5%
	1		10 hours General microbiology	12.5%
	1		10 hours Systemic microbiology	12.5%
	1		10 hours virology	12.5%
	Student signature			



(Lectures)

Date	Attendance	Topic	Signature



Laboratory training	Credit points	Responsible department	Attendance	Percentage of Achieved points
Training at Micro and Pharmacology labs	2	Microbiology and Pharmacology	Attendance of Micro labs for 2 weeks to perform Different methods of collection and preparation of body fluid samples.	20%
	1		Attendance of Pharmacology labs for 1 weeks to perform Handling of experimental animals	10%
	1		Attendance of Micor lab for 1 week to perform tests on Basics of infection control and Immunology	10%
	1		Attendance of Pharmacology labs for 1 weeks to perform Preparation of different physiological solutions & Drugs action on isolated intestine	10%
	1		Attendance of Micro Labs for 1 week to perform Metabolism Of Blood Cells (practical)	10%
	1		Attendance of Micro labs for 1 weeks to perform basics of Tissue culture	10%
	1		Attendance of Pharmacology labs for 1 weeks to perform Drug action on blood pressure	10%
			1	
	1		Attendance of Computer lab for 1 week for training on: Use information technology in recent advances in drugs acting on neuro-transmitter's effect modulation.	10%
Student signature			Principle coordinator Signature	Head of the department signature



Practical log

H.N	Test or experiment	Level of participation *	Location	Signature of supervisor

- * Level of participation
A- Plan and carry out
B- Carry out
C- Carry out under supervision



Practical log

H.N	Test or experiment	Level of participation *	Location	Signature of supervisor

- * Level of participation
 A- Plan and carry out
 B- Carry out
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Practical log

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Speciality course

Units' Titles' list	% from total Marks	Level (Year)	Core Credit points		
			Didactic	training	Total
General pharmacology		1,2,3	12	58	60
Advanced pharmacology		1,2,3	12	58	60
			24	96	120

Year 1

20 credit points for training

Minimal rate of attendance 80%

Percentage of Achieved points	Attendance	Responsible department	Credit points	Laboratory training
15%	Attendance of Pharmacology labs for 3 weeks to perform Preparation of different physiological solutions:	Pharmacology	3	Training at Pharmacology labs
10%	Attendance of Pharmacology labs for 2 weeks to perform Handling of experimental animals		2	
15%	Attendance of Pharmacology labs for 3 weeks to perform Tissue homogenization and preparation		3	
10%	Attendance of Pharmacology labs for 2 weeks to perform Drug action on isolated intestine		2	
10%	Attendance of Pharmacology labs for 2 weeks to perform Drug action on isolated heart		2	
10%	Attendance of Pharmacology labs for 2 weeks to perform Drug action on isolated rectus muscle		2	
10%	Attendance of Pharmacology labs for 2 weeks to perform Drug action on blood pressure		2	
10%	Attendance of Computer lab for 1 week for training on: Use information technology in recent advances in CNS cellular pharmacology			



10%	Attendance of Computer lab for 1 week for training on: Use information technology in recent advances in drugs acting on neurotransmitter's effect modulation.		2	
Head of the department signature	Principle coordinator Signature			Student signature



Practical log

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* Level of participation
 A- Plan and carry out
 B- Carry out
 C- Carry out under supervision



Practical log

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- A- Plan and carry out
- B- Carry out
- C- Carry out under supervision

Practical log

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General Pharmacology

12 credit points for didactic)

48points for didactic

Unit (Module)1

(General Pharmacology)

Rotation / attendance proof

الأماكن التي تدرب بها

توقيع مدير المعمل	توقيع رئيس القسم	أسم المعمل الذي تدرب به

Requirements

- **Credit points:** --12---credit point for didactic (lectures, seminars, tutorial) and --48----- point for training.
- Minimal rate of attendance 80% of training and didactic

Percentage of Achieved points	Attendance	Responsible department	Credit points	Name of the course
%		Pharmacology	12	Pharmacology
4%	5 hours Ion channels and their relevance to drug action		0.5	
4%	5 hours Transport of drugs across cell membranes		0.5	
4%	5 hours Cytochrome P450 system		0.5	
4%	5 hours Clinical pharmacokinetics		0.5	
4%	5 hours Adverse drug reactions		0.5	
4%	5 hours Therapeutic drug monitoring.		0.5	
8%	10 hours Drug receptors & pharmacodynamics: Introduction.		1	
4%	5 hours Introduction to autonomic pharmacology		0.5	
4%	5 hours Oxidative stress and anti-oxidants		0.5	
8%	10 hours Neurotransmitters		1	
4%	5 hours Drug – drug interaction.		0.5	
4%	5 hours Introduction to Pharmacology of CNS		0.5	
4%	5 hours Introduction to Pharmacology		0.5	



	of CVS		
4%	5 hours Introduction to Pharmacology of GIT	0.5	
4%	5 hours Introduction to Respiratory system	0.5	
4%	5 hours Introduction to Chemotherapy	0.5	
4%	5 hours Introduction to Hormones	0.5	
4%	5 hours Introduction to Immunopharmacology	0.5	
Head of the department signature	Principle coordinator Signature		Student signature



Percentage of Achieved points	Attendance	Responsible department	Credit points	laboratory training
	General pharmacology	Pharmacology	48	Training at Pharmacology labs
20%	Attendance of Pharmacology lab for 8 weeks to perform CNS experiments * Rotarode * Induction of convulsions and screening of anticonvulsant activity * Conditioned avoidance test * Actiphotometer * Screening of analgesic drugs (chemical, mechanical & thermal meth		8	
20%	Attendance of Pharmacology lab for 8 weeks to perform ANS experiments * Screening of parasympathomimetic and antimuscarinic activity. * Screening of sympathomimetic activity (α agonists and β -agonists) * Screening of neuromuscular blockers.		8	
20%	Attendance of Pharmacology lab for 8 weeks to perform Endocrinology experiments * Induction of diabetes		8	
20%	Attendance of Pharmacology lab for 8 weeks to perform CVS experiments * Langendorff preparation and its applications * Screening of antihypertensive activity and localization of the site of action		8	
5%	Attendance of Pharmacology lab for 2 weeks to perform GIT experiments * Induction of peptic ulcer		2	
10%	Attendance of Pharmacology lab for 4 weeks to perform Respiratory system experiments * Tracheal chain		4	
5%	Formative assessment		2	
Head of the department signature	Principle coordinator Signature			Student signature



Percentage of Achieved points	Attendance	Responsible department	Credit points	Clinical training
0%	General	Pharmacology	3	Training at Pharmacology labs
	CNS			
10%	* Rotarode * Induction of convulsions and screening of anticonvulsant activity * Conditioned avoidance test		2	
10%	* Actiphotometer * Screening of analgesic drugs (chemical, mechanical & thermal methods)		3	
10%	ANS * Screening of parasympathomimetic and antimuscarinic activity. * Screening of sympathomimetic activity (α agonists and β -agonists) * Screening of neuromuscular blockers.			
10%	Endocrinology * Induction of diabetes			
10%	CVS * Langendorff preparation and its applications * Screening of antihypertensive activity and localization of the site of action			
10%	GIT * Induction of peptic ulcer			
10%	Respiratory system * Tracheal chain			
Head of the department signature	Principle coordinator Signature			Student signature



Lectures

Date	Attendance	Topic	Signature



Lectures

Date	Attendance	Topic	Signature



Lectures

Date	Attendance	Topic	Signature



Practical log

H.N	Test or experiment	Level of participation *	Location	Signature of supervisor

- * Level of participation
A- Plan and carry out
B- Carry out
C- Carry out under supervision



Practical log

H.N	Test or experiment	Level of participation *	Location	Signature of supervisor

- * Level of participation
A- Plan and carry out
B- Carry out
C- Carry out under supervision



Practical log

H.N	Test or experiment	Level of participation *	Location	Signature of supervisor

* Level of participation
 A- Plan and carry out
 B- Carry out
 C- Carry out under supervision

Practical log

H.N	Test or experiment	Level of participation *	Location	Signature of supervisor

* Level of participation
 A- Plan and carry out
 B- Carry out
 C- Carry out under supervision

Unit 2

Advanced Pharmacology

Rotation / attendance proof

الأماكن التي تدرب بها

توقيع مدير المعمل	توقيع رئيس القسم	أسم المعمل الذي تدرب به

Requirements

- **Credit points:** --12---credit point for didactic (lectures, seminars, tutorial) and --48----- point for training.
- Minimal rate of attendance 80% of training and didactic



Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Advanced Pharmacology	12	Pharmacology		
	1		5 hours Drug receptors	8%
	1		10 hours Nitric oxide	8%
	1		10 hours CNS	8%
	2		20 hours CVS	16%
	1		10 hours Respiratory system	8%
	2		20 hours Hormones	16%
	1		10 hours Chemotherapy	8%
	1		10 hours Pain management	8%
	1.5		15 hours Immunopharmacology	12%
	0.5		Formative Assessment	4%
Student signature			Principle coordinator Signature	Head of the department signature



Lectures

Date	Attendance	Topic	Signature

Lectures

Date	Attendance	Topic	Signature



Lectures

Date	Attendance	Topic	Signature



Practical training	Credit points	Responsible department	Attendance	Percentage of Achieved points
Training at Pharmacology labs	4	Pharmacology	Attendance of Pharmacology lab for 4 weeks to perform * Tracheal chain	10%
	4		Attendance of Pharmacology lab for 4 weeks to perform - Manipulation → water maize, radial arm and object recognition test	10%
	4		Attendance of Pharmacology lab for 4 weeks to perform - Induction of inflammation including methods of induction of rheumatoid arthritis	10%
	4		Attendance of Pharmacology lab for 4 weeks to perform Forced swimming test (antidepressants)	10%
	4		Attendance of Pharmacology lab for 4 weeks to perform Tetrad system	10%
	4		Attendance of Pharmacology lab for 4 weeks to perform Finkelman preparation	10%
	4		Attendance of Pharmacology lab for 4 weeks to perform Induction of diabetes	10%
			4	
	6		Attendance of Pharmacology lab for 6 weeks to perform Induction of cardiac arrhythmias and screening of antiarrhythmic activity in rabbits by each of epinephrine, barium chloride and ligation of coronary artery	15%
	2		Formative Assessment	4.1%
Student signature			Principle coordinator Signature	Head of the department signature



Practical log

H.N	Test or experiment	Level of participation *	Location	Signature of supervisor

- * Level of participation
A- Plan and carry out
B- Carry out
C- Carry out under supervision

Practical log

H.N	Test or experiment	Level of participation *	Location	Signature of supervisor

- * Level of participation
- A- Plan and carry out
- B- Carry out
- C- Carry out under supervision

Practical log

H.N	Test or experiment	Level of participation *	Location	Signature of supervisor

- * Level of participation
- A- Plan and carry out
- B- Carry out
- C- Carry out under supervision



Post graduate teaching
First: lectures

Date	Title of lecture	Signature of Staff member

Post graduate teaching Second: Tutorial

Date	Title of Tutorial	Signature of Staff member

C- Procedures log book

NO.	Level of competency*	Location	Signature

* Level of competency
A- Independent performance
B- Performance under supervision
C- Observed



Practical log

H.N	Test or experiment	Level of participation *	Location	Signature of supervisor

- * Level of participation
- A- Plan and carry out
- B- Carry out
- C- Carry out under supervision



Practical log

H.N	Test or experiment	Level of participation *	Location	Signature of supervisor

* Level of participation
 A- Plan and carry out
 B- Carry out
 C- Carry out under supervision



Postgraduate student's program Rotation in training assessment

* **Name:**

* **Period of training**

From:

To:

* **Site:**

*Rotation

General skills	could not judge (0)	strongly disagree(1)	(2)	(3)	(4)	(5)	(6)	strongly agree (7)
Perform practice-based improvement activities using a systematic methodology (share in audits and risk management activities and use logbooks).								
Appraises evidence from scientific studies.								
Conduct epidemiological studies and surveys.								
Perform data management including data entry and analysis and using information technology to manage information, access on-line medical information; and support their own education.								



General skills	could not judge (0)	strongly disagree(1)	↔		↔		strongly agree (7)
			(2)	(3)	(4)	(5)	
Facilitate learning of students other health care professionals including their evaluation and assessment.							
Maintain therapeutic and ethically sound relationship with patients.							
Elicit information using effective nonverbal, explanatory, questioning, and writing skills.							
Provide information using effective nonverbal, explanatory, questioning, and writing skills.							
Work effectively with others as a member of a health care team or other professional group.							
Demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients and society.							
Demonstrate a commitment to ethical principles including provision or withholding of clinical care, confidentiality of patient information, informed consent, business practices.							

General skills	could not judge (0)	strongly disagree(1)	↔		↔		strongly agree (7)
			(2)	(3)	(4)	(5)	
Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities.							
Work effectively in relevant health care delivery settings and systems including good administrative and time management							
Practice cost-effective health care and resource allocation that does not compromise quality of care.							
Assist patients in dealing with system complexities.							

Elective Course

Requirements

● **Credit points:** 2 credit point.

- Minimal rate of attendance 80% of lectures and 80% of training



Name of the elective course:

Elective Course Lectures

Date	Attendance	Topic	Signature



Elective Course Practical skills

Date	Attendance	Topic	Signature



Academic activities
Lecture, journal club, conference, workshop

Activity	Your role **	Date	Signature of supervisor

** Your role:-
A- Attendance
B- Organization
C- Presentation



Formative assessment

Exam	Score	*Degree	Date	Signature

***Degree**
A- Excellent
B- Very good
C- Good
D- Pass

الرسائل العلمية

عنوان الرسالة

عربي: _____

انجليزي: _____

المشرفون: _____

1- _____

2- _____

3- _____

4- _____

تاريخ القيد لدرجة: _____ / /

تاريخ التسجيل الموضوع: _____

المتابعة الدورية: _____

التاريخ	ما تم انجازه من بروتوكول البحث	المتبقي	توقيع المشرفين



Declaration

Course Structure Mirror	Responsible (Course) Coordinator Name:	Signature	Date
First Part			
Second Part			
- Elective Course (s) Certificate (s) Dates:			
- Master Degree Thesis Acceptance Date:			
- Fulfillment of required credit points prior to final examination			
-----M Sc Degree Principle Coordinator:			
Date approved by ----- Department Council:			

يعتمد ،
رئيس القسم



*Faculty of Medicine
Pharmacology Department*
