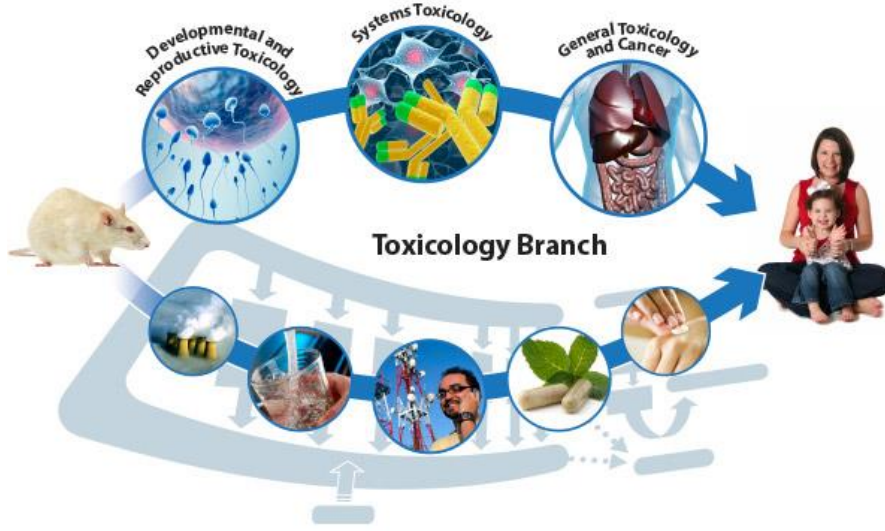


Medical Doctorate (M.D.) Degree of Clinical Toxicology Log Book



” كراسية الأشرطة ”

اللازمة لحصول المتدرب على درجة الدكتوراه في السموم الأكلينيكية
2017-2018/2018-2019



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Personal Data :-

Name.....

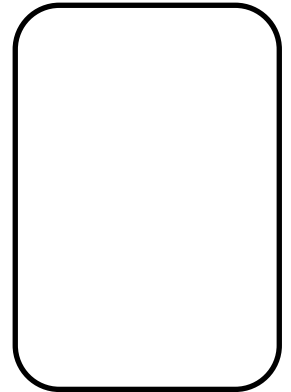
Date of birth.....

Address.....

Place of work.....

Telephones..... Mobile phone(s).....

E mail.....



Name of hospital	Period of work	Hospital director signature

Academic Information

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

GradeMSc... 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- Clinical case log

- 1- You will first find list with all required cases in the concerned module and the minimum number of cases you must get exposed to and level of participation you should achieve for each type of cases.
- 2- You should record all clinical cases in the module and each case should be signed by you trainer.

2- Clinical case presentation log

Record the cases 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
- Quises



1- Program aims

- 1/1 To enable candidates to master high level of clinical skills, bedside care skills, in addition to update medical knowledge as well as clinical experience and competence in the area of clinical toxicology
- 1/2 Provide candidates with fundamental knowledge and skills of intensive care medicine as regards; dealing with critically ill poisoned patients, ICU equipment, techniques, indications, contraindications and training skills of different intensive care techniques.
- 1/3 To enable candidates to perform high standard scientific medical research and how to proceed with publication in indexed medical journals.
- 1/4 To enable candidates to describe the basic ethical and medicolegal principles relevant to clinical toxicology.
- 1/5 To enable candidates to have professional careers as a consultant in Egypt but recognized abroad.
- 1/6 To enable candidates to continue self-learning in subspecialties.
- 1/7 To enable candidates to master different research methodology and do their own.

5- Program Structure

Program Time Table

Duration of program up to 4 years (could be extended to 6 years) divided into

○ Part 1

Program-related essential basic courses

- Medical statistics.
- Research methodology
- : Medicolegal Aspects and Ethics in Medical Practice and Scientific Research

Students are allowed to sit the exams of these courses after 6 months from applying to the M D degree.

- Planning of Toxicological Studies
- Intensive Care for Poisoning cases
- Toxicological and Biochemical Analysis

Students are allowed to sit the exams of the remaining basic science courses after 12 months from applying to the MD degree.

○ Thesis and 2 published researches

For the M D thesis;

MD thesis subject should be officially registered within 1 year from application to the MD degree, Discussion and acceptance of the thesis should not be set before 24 months from registering the M D subject;

It could be discussed and accepted either before or after passing the second part of examination

○ Part 2

Program –related specialty courses and ILOs

Students are not allowed to sit the exams of these courses before 4 years from applying to the MD degree.



First Part

Essential basic Courses

Course	Name of the course
Course 1	Medical statistics
Course 2	Research methodology
Course 3	Medicolegal Aspects and Ethics in Medical Practice and Scientific Research
Course 4	Planning of Toxicological Studies
Course 5	Intensive Care for Poisoning cases
Course 6	Toxicological and Biochemical Analysis

Medical statistics

Requirements

- Credit points: 1 credit point
- Minimal rate of attendance 80%

Name of the course	Credit points	Responsible department	Attendance	Practical	Percentage of Achieved points	
Medical statistics	1 credit point	Public Health & Community Medicine			100%	
	0.1		Introduction 1 hour	SPSS Introduction 2H	10%	
	0.1		Tables and graphics 1 Hour	Data entry and cleaning of data 2H	10%	
	0.1		Sampling 1 Hour	Transforming of variables 2H	10%	
	0.1		Methodology of data collection 1 Hour	Descriptive statistics 2 H	10%	
	0.1		Type of variables 1 Hour	Graphic presentation 2 H	10%	
	0.1		Proportion test Chi-square test 1 Hour	Chi square and interpretation of results 2 H	10%	
	0.1		Student T test Paired T test 1 Hour	Student, Paired and ANOVA tests 2H	10%	
	0.1		ANOVA test 1 Hour	Correlation Regression 2 Hour	10%	
	0.1		Non parametric tests 1 Hour	Multiple and logistic Regression 2 H	10%	
	0.1		Discrimination analysis factor analysis 1 Hour	Non parametric tests 2 H	10%	
				Revision 1 H	Revision 2H	
Student signature				Principle coordinator signature		Head of the department signature



Medical Statistics
Lectures and tutorials

Date	Attendance	Topic	Signature

Research Methodology

Requirements

- ◆ Credit points: 1 credit point
- ◆ Minimal rate of attendance 80%

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Research Methodology	1 credit point	Public Health & Community Medicine		100%
	0.15		4 hours Introduction & proposal writing	15%
	0.15		4 hours Epidemiological study designs	15%
	0.15		4 hours Screening & theoretical background	15%
	0.24		6 hours Screening practical	24%
	0.15		4 hours Sample size calculation	15%
	0.08		2 hours Research bias	8%
	0.08		2 hours Ethics in research	8%
	-		2 hours Revision	-
Student signature			Principle coordinator signature	Head of the department signature

Medicolegal Aspects and Ethics in Medical Practice and Scientific Research

Requirements

◆ **Credit points: 1 credit point**

Minimal rate of attendance 80%

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Medicolegal Aspects and Ethics in Medical Practice and Scientific Research	1 credit point	Forensic Medicine and Clinical Toxicology	10 hours	100%
	0.2		2 hours Suspicious death. Death and death certificate.	20%
	0.2		2 hours Supportive measures	20%
	0.2		2 hours Toxicological reports	20%
	0.2		2 hours Ethics in research.	20%
	0.2		2 hours Medical ethics.	20%
	Student signature			Principle coordinator signature



**Medicolegal Aspects and Ethics in Medical Practice and Scientific
Lectures and tutorials**

Date	Attendance	Topic	Signature



Course 4

Planning of Toxicological studies

Requirements

- ◆ **Credit points: Total 3 credit point (2.5CP didactic + 0.5CP training)**
- ◆ **Minimal rate of attendance 80%**

Didactics

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Course 4: Planning of Toxicological studies	2.5 credit point didactic	Forensic Medicine and Clinical Toxicology Department	25 hours	100%
	0.75CP		7.5 hours	30%
	0.75CP		7.5 hours	30%
	0.5CP		5 hours	20%
	0.5CP		5 hours	20%
Student signature			Principle coordinator signature	Head of the department signature

Practical training

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Course4: Planning of Toxicological studies	0.5 credit point training	Forensic Medicine and Clinical Toxicology	15 hours Attend and practice in lab at least 1 hour/week for 4 months for fulfilling the following practical skills below and registration in case study log	100%
	0.2CP		<ul style="list-style-type: none"> Design of different types of toxicological studies 	40%
	0.1CP		<ul style="list-style-type: none"> Estimation of substance toxicity 	20%
	0.1CP		<ul style="list-style-type: none"> Teratogenic effects of some toxins and make design approach of study Carcinogenic effects of some toxins and how to estimate it. 	20%
	0.1CP		<ul style="list-style-type: none"> Collection of Toxicological samples for hematological, and biochemical studies Collection of organs for histopathological studies 	20%
Student signature			Principle coordinator signature	Head of the department signature



Practical skills

Date	Attendance	skills	Competence	Signature

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



Practical skills

Date	Attendance	skills	Competence	Signature

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



Practical skills

Date	Attendance	skills	Competence	Signature

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



Course 5: Intensive Care for Poisoning Cases.

Requirements

- **Credit points: 1.5 credit point (0.5 CP for didactic+ 1CP for training)**
- **Minimal rate of attendance 80%**

Didactics

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Course 5: Intensive care for poisoning cases	0.5 CP	Anesthesia and ICU department	5 hours	100%
	0.041CP		<ul style="list-style-type: none"> Management of specific presentation 	8.2%
	0.041CP		<ul style="list-style-type: none"> Cardiopulmonary Resuscitation - Basic Life Support (BLS), and Advance Life Support 	8.2%
	0.041CP		<ul style="list-style-type: none"> Evaluation, causes and management of shock in poisoning: CVP, ECG, 	8.2%
	0.041CP		<ul style="list-style-type: none"> Arrhythmias: Management in different intoxication states 	8.2%
	0.041CP		<ul style="list-style-type: none"> Assessment of respiratory function: imaging, ABG, clinical data 	8.2%
	0.041CP		<ul style="list-style-type: none"> Respiratory presentations in poisoning: Respiratory failure, Pulmonary edema (CPE – NCPE), ARDS, 	8.2%
	0.041CP		<ul style="list-style-type: none"> Clinical approach to the comatose patient. Differential diagnosis of metabolic, structural versus toxic coma. 	8.2%
	0.041CP		<ul style="list-style-type: none"> Seizures, agitation, delirium and confessional states: Causes and management in Toxicology 	8.2%
	0.041CP		<ul style="list-style-type: none"> Acid base, electrolytes and fluid imbalance 	8.2%
	0.041CP		<ul style="list-style-type: none"> Assessment and Monitoring of renal function in critical care intoxicated patient 	8.2%
	0.041CP		<ul style="list-style-type: none"> Toxic and fulminant hepatitis and failure in acute poisoning 	8.2%
	0.041CP		<ul style="list-style-type: none"> Coagulopathy (DIC). Monitoring and management 	8.2%
Student signature				Head of the department signature



Lectures and Tutorials of Intensive care of poisoning cases

Date	Attendance	Topic	Signature



Faculty of Medicine



وحدة ضمان الجودة

Lectures and Tutorials of Intensive care of poisoning cases

Date	Attendance	Topic	Signature



Practical training

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Course 5: Intensive care for poisoning cases	0.5 CP	Anesthesia and ICU department	Attend and practice in Anesthesia and ICU department for at least 3h/day X 2 wk for achievement of the following practical skills and fulfilling the procedure log below passed with competence level from C-A	50%
	0.5CP		<ul style="list-style-type: none"> Attend at least 8 shift night twice/wk. in ICU and practice management of case poisoning and registration in case log. 	50%
Student signature			Principle coordinator signature	Head of the department signature

Clinical Procedures and Evaluation

Each of the following procedure should be observed, then assisted then performed independently

Case	Number
• Coma examination	7 cases
• Control of Toxic seizures	7 cases
• Intubation	7 cases
• Testing for Brain Stem Death	5 cases
• Challenge tests (Antidotes)	5 cases
• Basic general neurological examination	5 cases
• Respiratory assessment (imaging, ABG)	5 cases
• Management and evaluation of Pulmonary Edema	5 cases
• Management and evaluation of Shock	5 cases
• TPN	5 cases
• Management and evaluation of agitation, confusion and delirium	5 cases
• Central Vein Catheterization	5 cases
• Renal Function Assessment	5 cases
• Coma of undetermined cause examination and work up	5 cases
• Arrhythmia evaluation and management (including DC Shock)	5 cases
• Performing and interpreting abnormal ECG of toxic etiology	5 cases

Clinical Procedures & case log and Evaluation

H.N	Diagnosis/ Clinical Procedures	Level of participation			Location	Signature of supervisor
		Observed	Assisted	Done independently (A, B, C)		



H.N	Diagnosis/ Clinical Procedures	Level of participation			Location	Signature of supervisor
		Observed	Assisted	Done independently (A, B, C)		



H.N	Diagnosis/ Clinical Procedures	Level of participation			Location	Signature of supervisor
		Observed	Assisted	Done independently (A, B, C)		



Date	Diagnosis/ Clinical Procedures	Level of Share			Signature of supervisor
		Observed	Assisted	Done independently (A, B, C)	



H.N	Diagnosis/ Clinical Procedures	Level of participation			Location	Signature of supervisor
		Observed	Assisted	Done independently (A, B, C)		



H.N	Diagnosis/ Clinical Procedures	Level of participation			Location	Signature of supervisor
		Observed	Assisted	Done independently (A, B, C)		



H.N	Diagnosis/ Clinical Procedures	Level of participation			Location	Signature of supervisor
		Observed	Assisted	Done independently (A, B, C)		



Course 6 Toxicological & Biochemical analysis.

Requirements

- Credit points: Total 2.5 credit points (2CP for didactic + 0.5CP for training).
- Minimal rate of attendance is 80%.

Toxicological and Biochemical Analysis Lectures and tutorials

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Course 6: Toxicological and Biochemical Analysis	2 credit point	Forensic Medicine and Clinical Toxicology	20 hours	100%
	0.1CP		Indications for toxicological Analysis	5%
	0.1CP		Sample Collection Procedures, Transport and Storage	5%
	0.1CP		Type of Samples, Drugs in Saliva or Hair Analysis	5%
	0.1CP		Extraction Procedures (Acidic, Basic and Special)	5%
	0.1CP		Drugs of Abuse , Adulteration testing, and problems encountered in screening for DOA	5%
	0.1CP		Alcohol, and Toxic Alcohols	5%
	0.1CP		Drug Abuse in Sport	5%
	0.1CP		Pesticides, Rodenticides	5%
	0.1CP		Volatile Substances	5%
	0.1CP		Metals	5%
	0.1CP		Gases	5%
	0.1CP		Anions	5%
	0.1CP		Color Tests and Bed side Tests	5%
	0.1CP		Immunoassays	5%
	0.1CP		Arterial Blood Gas	5%
	0.1CP		Electrolytes (Na – K – Ca – Mg..)	5%
	0.1CP		Transaminases and Liver Function T	5%
	0.1CP		Kidney Function Tests (serum-urine)	5%
	0.1CP		CPK and Cardiac & Muscle Enzymes	5%
0.05CP	Coagulation Studies and CBC – RBS	2.5%		
0.05CP	Urine study	2.5%		
Student signature				Signature of the Head of Department



Practical training

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Course 6: Toxicological and Biochemical Analysis	0.5 credit point training	Forensic Medicine and Clinical Toxicology	15 hours	100%
			<p>Attend and practice in department lab at least 1 h / week for 4 months for Achievement and fulfilling the following practical skills below;</p> <ul style="list-style-type: none"> -Sample Collection Procedures, - Transport and Storage -Interpretate of Samples, Drugs in Saliva or Hair Analysis -Extraction Procedures (Acidic, Basic and Special) -Drugs of Abuse , Adulteration testing, and problems encountered in screening for DOA -Alcohol, and Toxic Alcohols -Drug Abuse in Sport -Pesticides, Rodenticides -Volatile Substances -Metals -Gases -Anions -Color Tests and Bed side Tests -Immunoassays -Arterial Blood Gas -Electrolytes (Na – K – Ca – Mg..) -Transaminases and Liver Function Test -Kidney Function Tests (serum-urine) -CPK and Cardiac & Muscle Enzymes -Coagulation Studies and CBC – RBS,Urine 	
Student signature				Signature of the Head of Department

Specialized course

Course: 7

Advanced Clinical Toxicology

Unit 1: Advanced General Toxicology and First Aid of Poisoning.

Unit 2: Advanced Special Toxicology.

Unit 3: Advanced Studies in Dependence and Illicit Substances

Units' Titles' list	%	Level	Core Credit points		
			from total	(Year)	Didactic
1) Unit 1 " Advanced General Toxicology and First Aid of Poisoning."	25%	1,2&3	6	31	37
2) Unit 2 " Advanced Special Toxicology."	50%	2&3&4	12	61.5	73.5
3) Unit 3: Advanced Studies in Dependence and Illicit Substances	25%	2,3&4	6	30.5	36.5
Total No. of Units:	3	1,2,3&4	24	123	147

Unit (Module) 1 Advanced General Toxicology and First Aid of Poisoning.

Unit (Module) 1

Advanced General Toxicology and First Aid of Poisoning.

Rotation / attendance proof الأماكن التي تدرّب بها

توقيع مدير المستشفى	توقيع رئيس القسم	أسم المستشفى التي تدرّب بها

Requirements

- **Credit points:** 6 credit point for didactic (lectures, seminars, tutorial) and 31 point for training.
- Minimal rate of attendance 80% of training and didactic

Year 1(Unit 1): (Lectures – Seminars and Tutorials)

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points of total CP
Course 7; unit 1: Advanced General Toxicology and First Aid of Poisoning	6 credit point	Forensic Medicine and Clinical Toxicology	60 hours	100%
	0.2CP		➤ General clinical examination of poisoning cases and role of the lab.	3.3%
	0.2 CP		➤ Toxidromes	3.3%
	0.2 CP		➤ Management of acute poisoning i.e. 1. Detoxification (Gastric lavage, emesis, catharsis, whole bowel irrigation) 2. Elimination procedures (Diuresis, dialysis and others) 3. Extracorporeal methods of enhancing elimination.	3.3%
	0.2 CP		➤ Toxic causes, diagnosis of specific clinical complications:	3.3%
	0.2 CP		➤ Neurological complications of poisoning and Management i.e. 1. Coma , Seizures, tremors, fasciculation 2. Agitation, Hallucinations and delusions and Behavioral changes 3. Encephalopathy, Cranial nerve toxicity - Peripheral neuropathy	3.3%
	0.2 CP		➤ Formative assessment	3.3%
Student signature			Principle coordinator signature	Head of the department signature



Year 2 (Unit 1): Lectures – Seminars – Tutorials

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points of total CP
Course 7; unit 1: Advanced general toxicology and First aid of poisoning	0.2	Forensic Medicine and Clinical Toxicology Department	➤ Cardiovascular complications	3.3%
			1. Hypotension, Shock – Hypertensive crises	
			2. Myocarditis, Myocardial, and peripheral ischemia	
	0.2		➤ Respiratory complications	3.3%
			1. Respiratory failure - Pneumonitis – ARDS	
			2. Pulmonary edema (Cardiogenic and non-cardiogenic) and Acute bronchospastic conditions	
	0.2		➤ Acid Base and Electrolytes imbalance	3.3%
	0.2		➤ Geriatric toxicology	3.3%
	0.2		➤ Pediatric toxicology	3.3%
	0.2		➤ Pregnancy and poisoning	3.3%
	0.2		➤ Multiple overdoses	3.3%
	0.2		➤ Developmental toxicology	3.3%
	0.1		➤ Industrial toxicology	1.6%
	0.1		➤ Carcinogenesis – mutagenesis & teratogenesis	1.6%
	0.1		➤ Environmental toxicology & pollution	1.6%
0.1	➤ Genomics and new genetics in toxicology	1.6%		
0.2	➤ Formative assessment	3.3%		
Student signature			Principle coordinator signature	Head of the department signature



Year 3 (Unit 1): Lectures – Seminars – Tutorials

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points of total CP
Course 7; unit 1: Advanced General Toxicology and First Aid of Poisoning	0.2	Forensic Medicine and Clinical Toxicology Department	➤ Experimental toxicology	3.3%
	0.2		➤ Nephrotoxicity	3.3%
	0.2		➤ Hepatotoxicity	3.3%
	0.2		➤ Toxicity of hematological system	3.3%
	0.2		➤ Immunotoxicity	3.3%
	0.2		➤ Dermatotoxicology	3.3%
	0.2		➤ Ophthalmic toxicology	3.3%
	0.2		➤ Otolaryngeal toxicology	3.3%
	0.2		➤ Reproductive toxicology	3.3%
	0.2		➤ Gastrointestinal toxicology	3.3%
	0.2		➤ Genitourinary toxicology	3.3%
	0.1		➤ Biochemical & molecular basis of toxicology	1.6%
	0.1		➤ Toxicokinetic & toxicokinetic basis of toxicology	1.6%
	0.2		➤ Formative assessment	3.3%
Student signature			Principle signature coordinator	Head of the department signature

**Training (31 Credit Points)
11.5CP in 1st year**

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Course 7; unit 1: Advanced General Toxicology and First Aid of Poisoning	5 CP	Forensic Medicine and Clinical Toxicology Department And in internal medicine department and ICU unit	Attend and practice in department for at least 4 days/week for achievement of the following practical skills and fulfilling the procedure log below passed with competence level from C-A	16.12%
	3 CP		<ul style="list-style-type: none"> Attend at least 4 shift night twice/wk. in ICU and practice case poisoning management and registration in case log. 	9.7 %
	3 CP		- Attend at least 2 Shift at morning or at night in th emergency department either in Assiut university hospital or in Ain shams center of toxicology.	9.7%
	0.5 CP		Formative assessment	1.6%
Student signature			Principle coordinator signature	Head of the department signature

**Training (31 Credit Points)
Second year 9.5 CP**

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Course 7; unit 1: Advanced General Toxicology and First Aid of Poisoning	5 CP	Forensic Medicine and Clinical Toxicology Department And in internal medicine department and ICU unit	Attend and practice in department for at least 4 days/week for achievement of the following practical skills and fulfilling the procedure log below passed with competence level from C-A	16.12%
	2 CP		<ul style="list-style-type: none"> Attend at least 4 shift night twice/wk. in ICU and practice case poisoning management and registration in case log. 	6.4 %
	2 CP		- Attend at least 2 Shift at morning or at night in th emergency department either in Assiut university hospital or in Ain shams center of toxicology.	6.4%
	0.5 CP		Formative assessment	1.6%
Student signature			Principle coordinator signature	Head of the department signature



**Training (31 Credit Points)
Third year 10 CP**

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Course 7; unit 1: Advanced General Toxicology and First Aid of Poisoning	5 CP	Forensic Medicine and Clinical Toxicology Department And in internal medicine department and ICU unit	Attend and practice in department for at least 4 days/week for achievement of the following practical skills and fulfilling the procedure log below passed with competence level from C-A	16.12%
	2 CP		<ul style="list-style-type: none"> Attend at least 4 shift night twice/wk. in ICU and practice case poisoning management and registration in case log. 	6.4 %
	2 CP		- Attend at least 2 Shift at morning or at night in th emergency department either in Assiut university hospital or in Ain shams center of toxicology.	6.4%
	1 CP		Formative assessment	2.3%
Student signature			Principle coordinator signature	Head of the department signature

Toxicological cases log: (31 credit point)

Log of:

Case	Number
- History taking from different toxicological cases	20 cases
- Atropine toxidrome	5 cases
- Cholinesterase Toxidrome	5 cases
- Management of poisoning (gastric lavage- cathartics etc.....)	10 cases
- Examination of the neurological manifestations of toxic cases.	As logged of
- Examination of the cardiac system in toxicological cases	5 cases
- Examination of respiratory complications of toxic cases	5 cases
- Interpretate ABG	20 cases
- Examine pediatric toxicological cases	10 cases
- Examine cases of nephrotoxicity	5 cases
- Examine cases of dermatotoxicity	5 cases
- Examine cases of reproductive toxicity	As logged of
- Examine cases of ophthalmic toxicity	As logged of
- Examine cases of GIT toxicity	10 cases

Unit 2

Advanced Special Toxicology

Unit (Module) 2

Advanced Special Toxicology

Rotation / attendance proof

الأماكن التي تدرّب بها

توقيع مدير المستشفى	توقيع رئيس القسم	أسم المستشفى التي تدرّب بها

Requirements

- **Credit points: 12 credit point for didactic (lectures, seminars, tutorial) and 61.5 point for training.**
 - **Minimal rate of attendance 80% of training and didactic**

Year 2 (unit 2): Advanced Special Toxicology

Name of the course	Credit points	Responsible department	Attendance & topics	Percentage of Achieved points of total CP
Course 7; unit 2: Advanced Special Toxicology	12 CP	Forensic Medicine and Clinical Toxicology Department	120 hours	100%
	0.63 CP		➤ Over the Counter drugs - Acetaminophen - Salicylates - Non-Steroidal Anti-Inflammatory Drugs - Anorexigenic drugs, Obesity Drugs - CNS stimulants and common cold medications - Drugs That Affect Sexual Function.	5.25%
	0.63 CP		➤ Antimicrobials - Cephalosporins and Penicillins - Macrolides - Quinolones - Aminoglycosides - Antituberculous drugs - Antiviral drugs - Antiprotozoal drugs (Antimalarials, Antiamoebics and others) - Antifungal drugs - Anxiolytics Others (Buspirone...) - Muscle relaxants Others (Baclofen, Carisoprodol, ...) - Antiepileptics	5.25%
	0.63 CP		➤ Respiratory Drugs - Theophylline and Xanthines - Beta2-adrenergic receptor agonist	5.25%
	0.63 CP		➤ Formative assessment	5.25%
Student signature			Principle coordinator signature	Head of the department signature

Year 3 (unit 2): Advanced Special Toxicology

Name of the course	Credit points	Responsible department	Attendance & topics	Percentage of Achieved points of total CP
Course 7; unit 2: Advanced Special Toxicology	0.63 CP	Forensic Medicine and Clinical Toxicology Department	<ul style="list-style-type: none"> ➤ Cardiovascular Drugs - Digitalis preparations - Beta blockers - Diuretics - Calcium Channel Blockers - Antiarrhythmics - Antihypertensives - Nitrates - Hyperlipidemia drugs - Antiplatelets 	5.25%
	0.63 CP		<ul style="list-style-type: none"> ➤ Endocrine Drugs - Oral hypoglycemic drugs and Insulin - Steroids 	5.25%
	0.63 CP		<ul style="list-style-type: none"> ➤ Metals and salts - Lead - Mercury - Arsenic - Iron 	5.25%
	0.63 CP		<ul style="list-style-type: none"> ➤ Corrosives (Acids, Alkalis, chlorine) 	5.25%
	0.63 CP		<ul style="list-style-type: none"> ➤ Toxic Gases (Carbonmonoxide, cyanide, chlorine, hydrogensulfide...) 	5.25%
	0.63 CP		<ul style="list-style-type: none"> ➤ Rodenticides (Phosphides, anticoagulants, Boron, Carbamates) 	5.25%
	0.63 CP		<ul style="list-style-type: none"> ➤ Insecticides (Organophosphates, Organochlorines, Carbamates, Pyrethroids, Others) 	5.25%
	0.63 CP		<ul style="list-style-type: none"> ➤ Formative assessment 	5.25%
Student signature				Head of the department signature

Year 4 (unit 2): Advanced Special Toxicology

Name of the course	Credit points	Responsible department	Attendance & topics	Percentage of Achieved points of total CP
Course 7; unit 2: Advanced Special Toxicology	0.63 CP	Forensic Medicine and Clinical Toxicology Department	➤ Herbicides (Paraquat, diquat, atrazine)	5.25%
	0.63 CP		➤ Petroleum distillates and hydrocarbons	5.25%
	0.63 CP		➤ Detergents, Dyes, food colors and preservatives	5.25%
	0.63 CP		➤ Food Poisoning (Bacterial, viral, chemical, endogenous...) - Botulism - Ciguatera, Paralytic shellfish. Scombroid, - Food allergy versus poisoning	5.25%
	0.63 CP		➤ Animal Envenomation - Scorpion - Snakes - Spider Bees and wasps and Marine(jelly fishetc)	5.25%
	0.63 CP		➤ Toxic Plants - Mushrooms - Mycotoxins, Houseplant - Atropine, Hyoscine (atropa belladonna & related plants) - hallucinogenic psychoactive plants (Nutmeg, khat, supari, valerian.)	5.25%
	0.63 CP		➤ Formative assessment	5.25%
Student signature				Head of the department signature



**Training (61.5 CP)
23.5 CP in year 2**

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Course 7 unit 2 Advanced special Toxicology	10 CP	Forensic Medicine and Clinical Toxicology Department And in internal medicine department and ICU unit	Attend and practice in department for at least 4 days/wk for achievement of the following practical skills and fulfilling the procedure log below passed with competence level from C-A	16.2%
	5 CP		<ul style="list-style-type: none"> Attend at least 3 shift night twice/wk. in ICU and practice case poisoning management and registration in case log. 	8.1%
	3.5 CP		- Attend at least 2 Shift at morning or at night in th emergency department either in Assiut university hospital or in Ain shams center of toxicology.	6%
	3 CP		- Attend at least 2 days/wk in the toxicology lab in Forensic and clinical toxicology department	4.8%
	2 CP		Formative assessment	3.2%
Student signature			Principle coordinator signature	Head of the department signature

**Training (61.5 CP)
18 CP in year 3**

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Course 7 unit 2 Advanced special Toxicology	5 CP	Forensic Medicine and Clinical Toxicology Department And in internal medicine department and ICU unit	Attend and practice in department for at least 4 days/wk for achievement of the following practical skills and fulfilling the procedure log below passed with competence level from C-A	8.1%
	5 CP		<ul style="list-style-type: none"> Attend at least 3 shift night twice/wk. in ICU and practice case poisoning management and registration in case log. 	8.1%
	4 CP		- Attend at least 2 Shift at morning or at night in th emergency department either in Assiut university hospital or in Ain shams center of toxicology.	6.5%
	3 CP		- Attend at least 2 days/wk in the toxicology lab in Forensic and clinical toxicology department	4.8%
	1 CP		<u>Formative assessment</u>	1.6%
Student signature			Principle coordinator signature	Head of the department signature

**Training (61.5 CP)
20 CP in year 4**

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Course 7 unit 2 Advanced special Toxicology	5 CP	Forensic Medicine and Clinical Toxicology Department And in internal medicine department and ICU unit	Attend and practice in department for at least 4 days/wk for achievement of the following practical skills and fulfilling the procedure log below passed with competence level from C-A	8.1%
	5 CP		<ul style="list-style-type: none"> Attend at least 3 shift night twice/wk. in ICU and practice case poisoning management and registration in case log. 	8.1%
	4 CP		- Attend at least 2 Shift at morning or at night in th emergency department either in Assiut university hospital or in Ain shams center of toxicology.	6.5%
	4 CP		- Attend at least 2 days/wk in the toxicology lab in Forensic and clinical toxicology department	6.5%
	2 CP		<u>Formative assessment</u>	3.2%
Student signature			Principle coordinator signature	Head of the department signature



Advanced special toxicology cases log

Log of:

Case	Number
- Cardiotoxicity cases	20 case
- Endocrine toxicity cases	20 case
- Heavy metal toxicity cases	20 case
- Corrosive toxicity cases	20 case
- Organophosphorus toxicity cases	20 case
- Hydrocarbon toxicity cases	20 case
- Food poisoning toxicity cases	20 case
- Animal poison toxicity cases	20 case
- Plant toxicity cases	20 case

Unit 3

Advanced Studies in Dependence and Illicit drugs

Unit (Module) 3

Advanced Studies in Dependence and Illicit drugs

Rotation / attendance proof الأماكن التي تدرب بها

توقيع مدير المستشفى	توقيع رئيس القسم	أسم المستشفى التي تدرب بها

Requirement

- **Credit points: 6 points for didactic (lectures, seminars, tutorial) and 30.5 point for training.**
- **Didactic is distributed in year 3,4 and practical training is distributed in year 2,3,4.**
 - Minimal rate of attendance 80% of training and didactic

Year 3 (Unit 3): Advanced studies in dependence and illicit substances

Name of the course	Credit points	Responsible department	Attendance & topics	Percentage of Achieved points of total CP
Course 7; Unit 3: Advanced Studies in Dependence and Illicit Substances	6 point	Forensic Medicine and Clinical Toxicology	60 hours	100%
	0.28		➤ Mechanisms and theory of drug abuse: receptor toxicology	4.7%
	0.28		➤ General basics of drug abuse	4.7%
	0.28		➤ Treatment of Drug Dependence	4.7%
	0.28		➤ Opiates, narcotics and tramadol	4.7%
	0.28		➤ Benzodiazepines and sedatives hypnotics (Zopiclone, barbiturates, meprobamate and myorelaxants)	4.7%
	0.28		➤ Alcohol abuse	4.7%
	0.28		➤ Central stimulants: Cocaine, amphetamine, designer drugs, sympathomimetic and others	4.7%
	0.28		➤ Cannabis	4.7%
	0.28		➤ Solvent abuse	4.7%
0.28	➤ Formative assessment	4.7%		
Student signature				Head of the department signature

Year 4 (Unit 3): Advanced studies in dependence and illicit substances

Name of the course	Credit points	Responsible department	Attendance & topics	Percentage of Achieved points of total CP
Course 7; unit 3: Advanced Studies in Dependence and Illicit Substances	0.28	Forensic Medicine and Clinical Toxicology	➤ Potentially dependence producing drugs on the market	4.7%
	0.28		➤ Other drugs of abuse: Research spirit	4.7%
	0.28		➤ General examination of dependent patient in overdose and other dependence emergencies	4.7%
	0.28		➤ Tailoring analytical toxicology for diagnosis and shaping profile of drug abuse and its role in relapses	4.7%
	0.28		➤ Detoxification procedures	4.7%
	0.28		➤ Monitoring ex drug abuser	4.7%
	0.28		➤ Medical and Surgical Complications of drug dependence practice	4.7%
	0.28		➤ New concepts in management	4.7%
	0.28		➤ Medicolegal aspects of dependence	4.7%
	0.28		➤ Ethical Considerations	4.7%
	0.28		➤ Formative assesment	4.7%
Student signature				Head of the department signature

**Practical training (30.5 CP)
11.5CP in Year 2**

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Course 7; unit 3: Advanced Studies in Dependence and Illicit Substances	3 CP	Forensic Medicine and Clinical Toxicology Department And in internal medicine department and ICU unit	- Attend and practice in department for at least 4 days/wk for achievement of the following practical skills and fulfilling the procedure log below passed with competence level from C-A	9.8%
	2 CP		- Attend at least 2 shift night twice/wk. in ICU and practice case drug abuse toxicity management and registration in case log.	6.5%
	2 CP		- Attend the toxicology lab in the forensic medicine and clinical toxicology department 4 days/wk to practice the analysis method of drug abuse	6.5%
	2.5 CP		- Attend the emergency department 1 shift/wk to manage any case of drug abuse toxicity or over dose in Assiut university hospital, or in Ain Shams toxicology center.	8.1%
	2 CP		<u>Formative assessment</u>	6.5%
Student signature			Principle coordinator signature	Head of the department signature

**Practical training (30.5 CP)
11 CP in Year 3**

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Course 7; unit 3: Advanced Studies in Dependence and Illicit Substances	3 CP	Forensic Medicine and Clinical Toxicology Department And in internal medicine department and ICU unit	- Attend and practice in department for at least 4 days/wk for achievement of the following practical skills and fulfilling the procedure log below passed with competence level from C-A	9.8%
	2 CP		- Attend at least 2 shift night twice/wk. in ICU and practice case drug abuse toxicity management and registration in case log.	6.5%
	2 CP		- Attend the toxicology lab in the forensic medicine and clinical toxicology department 4 days/wk to practice the analysis method of drug abuse	6.5%
	2 CP		- Attend the emergency department 1 shift/wk to manage any case of drug abuse toxicity or over dose in Assiut university hospital, or in Ain Shams toxicology center.	6.5%
	2 CP		<u>Formative assessment</u>	6.5%
Student signature			Principle coordinator signature	Head of the department signature

**Practical training (30.5 CP)
8 CP in Year 4**

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Course 7; unit 3: Advanced Studies in Dependence and Illicit Substances	4 CP	Forensic Medicine and Clinical Toxicology Department And in internal medicine department and ICU unit	- Attend and practice in department for at least 4 days/wk for achievement of the following practical skills and fulfilling the procedure log below passed with competence level from C-A	13.1%
	1 CP		- Attend at least 2 shift night twice/wk. in ICU and practice case drug abuse toxicity management and registration in case log.	3.2%
	1 CP		- Attend the toxicology lab in the forensic medicine and clinical toxicology department 4 days/wk to practice the analysis method of drug abuse	3.2%
	1 CP		- Attend the emergency department 1 shift/wk to manage any case of drug abuse toxicity or over dose in Assiut university hospital, or in Ain Shams toxicology center.	3.2%
	1 CP		Formative assessment	3.2%
Student signature			Principle coordinator signature	Head of the department signature

Advanced studies in dependence and illicit substances cases log

Log of:

Case	Number
- Cases of opioid toxicity	20 case
- Cases of tramadol toxicity	30 cases
- Cases of benzodiazepins toxicity	As logged of 5 As
- Cases of Alcohol abuse toxicity	As logged of
- Cases of cannabis toxicity	30 case
- Cases of cocaine toxicity	5 cases
- Cases of new drugs abuse toxicity	As logged of



Cases log book

H.N	Diagnosis of case	Level of participation *	Location	Signature of supervisor

* Level of participation

A- Plan and carry out

B- Carry out

C- Carry out under supervision



Attendance of management of poisoning cases

	Type of poisoning	Diagnosis	Place	Signature
(I)	Pesticides toxicity			
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				



(II)	Scorpion/snake envenomation				
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					



(III)	Corrosive toxicity				
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					



(IV)	Drug of abuse				
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					



(V)	Hydrocarbon poisoning				
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					



(VI)	Drug poisoning				
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					

* 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)
Demonstrate the competency of continuous evaluation of different types of care provision to patients in the different area of his field.								
Appraise scientific evidence.								
Continuously improve patient care based on constant self-evaluation and <u>life-long learning</u> .								
Participate in clinical audit and research projects.								



General skills	could not judge (0)	strongly disagree(1)	 (2) (3)		 (4) (5)		 (6)	strongly agree (7)
Practice skills of evidence-based Medicine (EBM).								
Educate and evaluate students, residents and other health professionals.								
Design logbooks.								
Design clinical guidelines and standard protocols of management.								
Appraise evidence from scientific studies related to the patients' health problems.								
Apply knowledge of study designs and statistical methods to the appraisal of clinical studies.								
Use information technology to manage information, access on- line medical information; for the important topics.								
Master interpersonal and communication skills that result in the effective <u>exchange of information and collaboration</u> with patients, their families, and health professionals, including:- <ul style="list-style-type: none"> • <u>Present</u> a case. • <u>Write</u> a consultation note. • <u>Inform patients</u> of a diagnosis and therapeutic plan Completing and maintaining comprehensive. • Timely and legible <u>medical records</u>. • Teamwork skills. 								



General skills	could not judge (0)	strongly disagree(1)	↔		↔		(6)	strongly agree (7)
			(2)	(3)	(4)	(5)		
Create and sustain a therapeutic and ethically sound relationship with patients.								
Elicit and provide information using effective nonverbal, explanatory, questioning, and writing skills.								
Work effectively with others as a member or leader 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, and business practices.								
Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities.								
Work effectively in health care delivery settings and systems related to specialty including good administrative and time management.								
Practice cost-effective healthcare and resource allocation that does not compromise quality of care.								



General skills	could not judge (0)	strongly disagree(1)	↔		↔		(6)	strongly agree (7)
			(2)	(3)	(4)	(5)		
Advocate for quality patient care and assist patients in dealing with system complexities.								
Design, monitor and evaluate specification of under and post graduate courses and programs.								
Act as a chair man for scientific meetings including time management								



Elective Course 1

Requirements

● **Credit points:** 1.5 credit point.

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

One of these courses

- Advanced medical statistics.
- Evidence based medicine.
- Advanced infection control.
- Quality assurance of medical education.
- Quality assurance of clinical practice.
- -Hospital management

Name of the elective course: -----



Elective Course Lectures

Date	Attendance	Topic	Signature



Faculty of Medicine



وحدة ضمان الجودة

Elective Course Practical skills

Date	Attendance	Topic	Signature



Elective Course 2

Requirements

● **Credit points:** 1.5 credit point.

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

One of these courses

- Advanced medical statistics.
- Evidence based medicine.
- Advanced infection control.
- Quality assurance of medical education.
- Quality assurance of clinical practice.
- -Hospital management

Name of the elective course: -----



Faculty of Medicine



وحدة ضمان الجودة

Elective Course Lectures

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 and MCQ

Exam	Score	Grade*	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 : _____

توقيع المشرفين	المنبقي	ما تم انجازه من بروتوكول البحث	التاريخ



Declaration

Course Structure Mirror	Responsible (Course) Coordinator Name:	Signature	Date
First Part			
-Course 1: Medical statistics			
-Course 2: Research methodology			
-Course 3: Medicolegal Aspects and Ethics in Medical Practice and Scientific Research			
-Course 4: Planning of Toxicological Studies			
-Course 5: Intensive Care for Poisoning cases			
- Course 6: Toxicological and Biochemical Analysis			
Second Part			
Course 7: Advanced Clinical Toxicology			
Unit (Module)1			
Unit (Module) 2			
Unit (Module)3			
- Elective Course (1) Certificate Dates:			
- Elective Course (2) Certificate Dates:			
- M. D. Thesis Acceptance Date:			
- Fulfillment of required credit points prior to final examination			
Clinical Toxicology M.D. Degree Principle Coordinator:			
Date approved by Forensic medicine Clinical Toxicology Department Council:			

يعتمد ،
رئيس القسم أ.د./