



PROGRAMME SPECIFICATION
Faculty of Medicine- Mansoura University

(A) Administrative information

<input type="checkbox"/> Programme Title & Code	Postgraduate Doctorate degree of Forensic Medicine and Clinical Toxicology/ FNST 600
<input type="checkbox"/> Final award/degree	M.D
<input type="checkbox"/> Department (s)	Forensic Medicine & Clinical Toxicology Department
<input type="checkbox"/> Coordinator	Prof. Dr. Sahar Abdelaziz El Dakroory Prof. Dr. Amal Abd El- Salam Al Bakary
<input type="checkbox"/> External evaluator (s)	Prof.Dr. Madeha Wasef Mohamed Ali Professor of Forensic Medicine and Clinical Toxicology-Zagazeg University.
<input type="checkbox"/> Date of approval by the Department`s council	25/7/2016
<input type="checkbox"/> Date of last approval of programme specification by Faculty council	9/8/2016

(B) Professional information

(1) Programme Aims:

The broad aims of the Programme are as follows:

1. Within the philosophy of M.D., we aim to foster the development of personal communication skills with much emphasis on leadership & decision making skills as well as informational technology orientation.
2. The certificate aim to prepare physicians to be capable of practicing medical toxicology in academic and clinical settings. The curriculum advances students' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care.
3. To give our candidate advanced knowledge, competencies, skills and applications to integrate the forensic data properly, perform postmortem examination, apply clinical forensic interpretations of different injuries and permanent infirmities and the capability to reconstruct case scenario.
4. To shed the light on the recent molecular and genetic principles, their possible application in clinical toxicology field.
5. Teaching advanced applications of forensic radiology, forensic odontology and addiction
6. To interpret different cases of malpractice in different branches of medicine and surgery.

(2) Intended Learning Outcomes (ILOs):

Intended learning outcomes (ILOs); Are four main categories: knowledge & understanding to be gained, intellectual qualities, professional/practical and transferable skills.

A- Knowledge and Understanding

Candidates must demonstrate knowledge of established and evolving biomedical, clinical, epidemiological and social behavioral sciences, as well as the application of this knowledge to patient care. On successful completion of the programme, the candidate will be able to:

□□: Identify the various legal and medico-legal problems in civil and criminal cases and define the principles and concepts of medical malpractice in different branches of medicine.

A2: Describe advanced methods for medico-legal autopsy and updates in methods of identification.

A3: Identify principles and applications of forensic psychiatry, radiology and odontology.

A4: Discuss the clinical forensic applications of different injuries and permanent infirmities.

A5: Define basics and principles of genetics and its application in toxicology.

A6: Recognize standard guidelines in management of different poisoning cases.

A7: Discuss the application of nanotoxicology, protocols for dealing with radiation and toxic hazardous incidents.

A8: Recognize & define thoroughly the principles of research, medical statistics and teaching skills.

B- Intellectual- skills

- B1:** Interpret and analyze different problems of malpractice.
- B2:** Interpret forensic & medical evidences with objectivity and balance and criticize a medicolegal report based on evidences, criminalistic basics and crime scene investigation and be able to rewrite the report.
- B3:** Analyze and evaluate of information related to different types of injuries and infirmities.
- B4:** Analyze toxicological case scenarios and solve specific problems on the basis of limited and contradictory information to reach proper diagnosis.
- B5:** Select appropriate medical investigative tools in a cost-effective, ethical and useful manner.
- B6:** Assess the risks in dealing with cases of occupational exposure & addiction and plan to improve performance.
- B7:** Implement emergency or disaster plans for the workplace and/or the community.
- B8:** Construct experimental design and statistical analysis of data as related to laboratory, clinical, and epidemiologic research.

C- Professional/practical skills

- C1:** Perform detailed medico-legal autopsies to discover artifacts in autopsy and reconstruct proper medicolegal reports.
- C2:** Demonstrate the different medico-legal specimens and comment properly on them.
- C3:** Perform clinical examination for cases after proper history taking.
- C4:** Apply the international guidelines in management of different toxicological cases attending the unit in emergency hospital.
- C5:** Demonstrate emergent versus non-emergent toxic conditions and implement an appropriate plan of care.
- C6:** Construct proper clinical toxicology reports.

D- Communication & Transferable skills

D1: Communicate effectively with patients, families, and the public, as appropriate and describe and practice delivering bad news to the patient.

D2: Communicate effectively with physicians, other health professionals, and health related agencies.

D3: Direct and lead a group of junior staff and be a model for applying professional and research ethics.

D4: Use health care information system in improving patient care and keep patient medical records.

D5: Apply principles of medical ethics in dealing with cases' information.

D6: Conduct an effective lecture, presentation, case management according to the known standards and time schedule and participate in CME program and perform self-appraisal.

D7: Conduct a research project, select an appropriate research methodology, and choose the proper research statistics to analyze data.

(3) Academic standards:

Academic standards for the programme are attached in **Appendix I**. in which **NARS** issued by the National Authority for Quality Assurance & Accreditation in Education are used being approved by the faculty council on 14/7/2010.

Curriculum structure and contents:

4.a- Duration of the programme : 6 semesters.

4.b- Programme structure:

*The programme consists of semester I: composed of one course: Genetic and Molecular Toxicology. Semesters III, IV, V, VI composed of three mandatory courses (Forensic Medicine and Medicolegal responsibility, Injuries and Permanent Infirmities and Clinical Toxicology) and one of two elective courses. The thesis is considered in semester II.

*Candidates should fulfill a total of **60 credit hours**.

●4.b.1: Number of credit hours (minimum) :

First part: **5 credit hours**. Second part: **25 credit hours**

Activities included in the log book: **15 credit hours**

- ✓ 3h Forensic Medicine and Medicolegal responsibility
- ✓ 3h Injuries and Infirmities
- ✓ 6h Clinical Toxicology
- ✓ 3h Different scientific activities

Thesis: **15 credit hours**.

●4.b.2: Teaching hours/week:

First part:

Lectures: 5 hour/week **Total:** 75 hours for 15 weeks (referred to the table below)

Second part:

- Lectures (25 credit hours).
- Activities included in the log book (applied skills related to the second part):15 credit hours.
- Thesis: 15 credit hours.

(4) Programme courses:

Semester I:

a- Compulsory courses:

Course title	المقررات	Course code	Theoretical	Total hours / week	Total teaching hours
			Lectures		
Genetics and Molecular toxicology	السموم الجينية والجزئية	FNST 619 GMT	5	5	75
Total			5	5	75

b- Elective courses: none

Semester II: thesis

Semesters III, IV, V, VI :

Course title	المقررات	Course code	Semester III				Semester IV			
			Lectures	Practical & clinical	Total credit hours/ week	Total teaching hours	Lectures	Practical & clinical (log book)	Total credit hours/ week	Total teaching hours
Forensic Medicine & Medicolegal Responsibilities	الطب الشرعي و المسؤولية الطبية الشرعية	FNST 619 FM	٢	1	3	60	٢	1	3	60
Injuries and Permanent Infirmities	الإصابات و العاهات المستديمة	FNST 619 PI	2	1	3	60	2	1	3	60
Clinical Toxicology	السموم الإكلينيكية	FNST 619 CT	3	1.5	4.5	90	3	1.5	4.5	90
Elective course: • Forensic Radiology • Forensic Odontology	المقررات الاختيارية • الأشعة من الوجهة الطبية الشرعية • علم الاسنان من الوجهة الطبية الشرعية	• FNST 619 FR • FNST 619 FO	---	---	---	---	---	---	---	---
Total			7	3.5	10.5	210	7	3.5	10.5	210

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Course title	المقررات	Course code	Semester V				Semester VI			
			Lectures	Practical & clinical (log book)	Total credit hours/ week	Total teaching hours	Lectures	Practical & clinical (log book)	Total credit hours/ week	Total teaching hours
Forensic Medicine & Medicolegal Responsibilities	الطب الشرعي و المسؤولية الطبية الشرعية	FNST 619 FM	1	0.5	1.5	30	1	0.5	1.5	30
Injuries and permanent Infirmities	الإصابات و العاهات المستديمة	FNST 619 PI	1	0.5	1.5	30	1	0.5	1.5	30
Clinical Toxicology	السموم الإكلينيكية	FNST 619 CT	3	1.5	4.5	90	3	1.5	4.5	90
Elective course: • Forensic Radiology • Forensic odontology	المقررات الاختيارية • الأشعة من الوجهة الطبية الشرعية • علم الاسنان من الوجهة الطبية الشرعية	• FNST 619 FR • FNST 619 FO	---	---	---	---	1	---	1	15
Total			5	2.5	7.5	150	6	2.5	٨,5	165

ملحوظة:

- هناك ثلاث ساعات من ساعات كراسة الأنشطة علي الأنشطة العلمية المختلفة.
على الطالب أن يختار مقرر اختياري واحد ويشترط أن يكون مختلف عن المقرر الذي سبق اختياره في الماجستير

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Programme-Courses ILOs Matrix

Programme ILOs are enlisted in the first row of the table (by their code number: a1, a2.....etc), then the course titles or codes are enlisted in first column, and an "x" mark is inserted where the respective course contributes to the achievement of the programme ILOs in question.

P.S. All courses` specifications are attached in Appendix II.

Course Title/Code	Programme ILOs															
	a1	a2	a3	a4	a5	a6	a7	a8	b1	b2	b3	b4	b5	b6	b7	B8
Genetics and Molecular Toxicology					x											
Forensic Medicine and medicolegal responsibility	x	x							x	x						
Injuries and Permanent Infirmities				x							x					
Clinical toxicology.						x	x					x	x	x	x	
Forensic Radiology			x													
Forensic Odontology			x													
Thesis								x								x

Course Title/Code	Programme ILOs													
	c1	c2	c3	c4	c5	c6	d1	d2	d3	d4	d5	d6	d7	
Genetics and Molecular Toxicology														
Forensic Medicine and medicolegal responsibility	x	x						x	x		x	x		
Injuries and Permanent Infirmities		x						x	x		x	x		
Clinical toxicology.			x	x	x	x	x	x		x	x	x		
Forensic Radiology														
Forensic Odontology														
Thesis													x	

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(5) Programme admission requirements:

● **General requirements:**

According to the faculty postgraduate by laws [Appendix III](#).

● **Specific requirements:**

- 1- Fulfillment of at least 75% of the logbook activities that includes:
 - a. Attendance of lectures, laboratory work and field training according to the master programme specification.
 - b. Residency training program in the Poisoning Unit-Emergency Hospital of about three shifts per week including recording the patients cases manually and electronically.
 - c. Attendance of the weekly seminar held in the department and performance of ten.
 - d. Attendance of student teaching sections.
 - e. Perform ten seminars.
- 6- Construct five medicolegal reports and five clinical toxicology reports.
- 7- Sharing in museum renewal by three specimens before final exam.
- 8- Attendance of at least one conference and one workshop yearly.

(6) Regulations for progression and programme completion:

- Student must complete minimum of 60 credit hours in order to obtain the M.D. degree, which include the courses of first and second parts, thesis and activities of the log book.
- Courses description are included in [Appendix II](#).
- Registration for the M.D. thesis is allowed 18 months from the day of admission to the programme and must fulfill a total of 15 credit hours including material collection, laboratory work, patients follow-up, and meetings with supervisors.

Final exam:

الفصل الدراسي الأول

الدرجة تحريري	الاختبار	المقرر
200	إختبار تحريري واحد مدته ثلاث ساعات	السموم الجينية و الجزينية

يتم تقييم الساعات المعتمدة بعقد امتحان في نهاية المقرر على هيئة MCQ بأشكاله المختلفة
الامتحان النهائي الشامل

إجمالي	الدرجة				الاختبار	المقرر
	عملي	إكلينيكي	شفهي	تحريري		
220	٥٠		٥٠	١٢٠	إختبار تحريري مدته ثلاث ساعات + اختبار شفهي ممنهج + اختبار عملي	الطب الشرعي و المسؤولية الطبية الشرعية
220	٥٠		٥٠	١٢٠	إختبار تحريري مدته ثلاث ساعات + اختبار شفهي ممنهج + اختبار عملي	الإصابات والعاهات المستديمة
540	١٠٠	١٠٠	١٠٠	٢٤٠	إختبار تحريري مدته ثلاث ساعات + اختبار شفهي ممنهج + اختبار اكلينيكي	السموم الاكلينيكية
100			٢٥	٧٥		المقرر الاختباري
١٠٨٠	إجمالي الدرجة					

يتم تقييم الساعات المعتمدة بعقد امتحان في نهاية كل مقرر على هيئة MCQ بأشكاله المختلفة

(7) Evaluation of Programme's intended learning outcomes (ILOs):

Evaluator	Tools*	Signature
Internal evaluator (s) Prof.Dr Layla El-Zalabany Prof.Dr.Seham Gad ElHak	Focus group discussion Meetings	
External Evaluator (s) Prof.Dr.Madeha Wasef	Reviewing according to external evaluator checklist report.	
Senior student (s) Dr. Nermeen		
Alumni	None	
Stakeholder (s)	None	
Others	None	

* TOOLS= QUESTIONNAIRE, INTERVIEW, WORKSHOP, COMMUNICATION, E_MAIL

We certify that all information required to deliver this programme is contained in the above specification and will be implemented. All course specification for this programme are in place.	
Programme coordinator: Name: Prof. Dr. Sahar Abdelaziz El Dakroory Prof. Dr. Amal Abd El- Salam Al Bakary	Signature & date:
Head of Department: Name:	Signature & date:
Dean: Name:	Signature & date:
Executive director of the quality assurance unit: Name: Prof.Dr. Seham Gad El-Hak	Signature & date: