



Quality Assurance Unit



**Tanta University
Faculty of Medicine**

Department of Forensic Medicine and Clinical Toxicology

Course Specifications

Forensic Chemistry for Forensic Medicine and Clinical Toxicology Master Degree

2013-2014

Forensic Chemistry for Forensic Medicine and Clinical Toxicology Master Degree Course
Specifications

University: T anta Faculty: Medicine Department: Forensic Medicine and Clinical Toxicology

1) administrative Information

**1- course title: Forensic Chemistry for Forensic Medicine and Clinical Toxicology
Master Degree**

**2- Department offering the program: Forensic Medicine and Clinical Toxicology
Department.**

**3- Department responsible for the course: Analytical Chemistry Department,
faculty of pharmacy.**

4- Course code: TMED 03 A-21 foren -chem

5- Level: first part

6- No. of Credit / taught hours:

Lectures: 1/2 credit, 7.5 taught Practical: 1/2 credit, 15 taught

Total: 1/22.5 credit hours/actual hours

7-Authorization date of course specification: 18-9-2013

2) Professional Information

1 – Overall Course aims

To provide the trainee with knowledge, skills and attitude that qualify him to perform different method of toxicology analysis and interpret toxicology analysis results.

2 – Intended learning outcomes (ILOs):

Knowledge and understanding:

By the end of the course, student should be able to:

- a.1- discuss basic principles, advantages and disadvantages and techniques of different methods of analytical toxicology.
- a. 2- identify pitfalls in analytical toxicology.
- a.3- Discuss the cross reactions between different drugs and toxins.

b- Intellectual skills:

By the end of the course, student should be able to:

- b1- Recognize the suitable analysis for different toxins.
- b2- organize correctly the suitable sample(s) for toxicology analysis
- b3- interpret professionally the results of different analytical toxicology methods applied.

c- Professional & practical skills

cl- Do all methods of toxicology screening.

d-General transferable skills:

By the end of the course, student should be able to:

d.1-Communicate effectively with his colleagues and patients

d.2- Apply self evaluation and specify his medical educational needs.

d.3-use different learning resources to get knowledge and information.

d.4- Manage time and practice team working through collaboration with other specialties to get proper diagnosis of a given case.

d.5- perform continuous medical education.

3) Course contents

Pharmacy and toxicology	Total lectures' credit hours	Total Practical/clinical 's credit hours
<ul style="list-style-type: none">• Color tests• Spectroscopic methods• Immunoassay• Chromatography(HPLC, LC,MS,GS-MS, TLC)• Mass spectrometry• Capillary electrophoresis• Atomic absorption, x-ray fluorescence , flame photometry, electrochemical methods.	1/2	1/2

4) Teaching and learning methods

Lectures, seminars, journal clubs, bed side teaching, case presentation, assignments, conference participation observation and hands on practice

5) Student Assessment

5.1...written.. to assess (a1,a3, b1)

5.2... practical .to assess (a2,,b2,b3,c1)

5.3 ...oralto assess...(a1,a2,a3,b1,b2,b3,d3)

5.4...logbook..to assess (a1,a2,a3,b1,b2,b3,c1,d1,d2,d3,d4,d5)

Assessment schedule

بعد نهاية المقرر يقيم الطالب عن طريق اختبار نهائي . يعقد الاختبار مرتين سنوياً في شهرى ابريل و أكتوبر من كل عام و يحق للطالب التقدم وفق بنود المادة 24 من اللائحة و التى تشترط استكمال logbook 75% و الحصول على

موافقة رئيس القسم قبل شهر من موعد الامتحان . و يتكون الامتحان من الاختبارات الآتية طبقاً للمادة 58-24 من اللائحة

1- إختبار تحريري مدته 3 ساعات

2- إختباراً معملياً

3- إختباراً شفوي

6) Weighing of assessments

Written examination	50%
oral examination:	25%
Practical	25%
Total	100%

List any formative only assessment:

- End lectures exam
- Group discussion exam

7) List of references:

Text books

Clarke's analysis of drugs and poisons
WHO basic analytical toxicology

Periodicals and web sites

- Journal of applied toxicology.
- Journal of analytical toxicology.
- Journal of biochemical and molecular toxicology.

8) Other resources/ facilities required for teaching and learning to achieve the above ILOs

Laboratory equipments for toxin screenings.

9) We certify that all of the information required to deliver this course is contained in the above specifications and will be implemented

***Course Specifications: Forensic Chemistry for Forensic Medicine and Clinical Toxicology
Master Degree, 2013-2014***

We verify that the above course and the analysis of students and external evaluator opinions are accurate.

Course coordinator and head of department

name.....signature.....Date.....

Head of quality assurance unit:

name.....signature.....Date.....