جامعة أم القرى

كلية الطـــب

الماجستير في السموم الإكلينيكية

4. Learning and Teaching

4/1 Learning Outcomes and GraduateSpecifications

4/1/1 Main tracksor specializations covered by the program:

(a)The program gives Master of Science degree in Clinical Toxicology after four semesters. The graduate works as a toxicologist in emergency departments in public hospitals and private hospitals

(b)The graduate is familiar with the symptoms of poisoning of chemicals from pharmaceuticals, narcotic drugs, insecticides, etc. in addition to knowledge of the methods of diagnosis and treatment

(c)The graduate can perform first aid in the event of a chemical or biological poisoning, as well as contribute to medical evacuation in cases of environmental disasters, especially chemical and biological.

4/1/2 Curriculum Study Plan Table

Level	Course Code	Course Title	Required or Elective	Prerequisite Courses	Credit Hours
Level 1	1006601-3(pharm)	Pharmacology	Required	no	3
	1006601-3 (pathophysio)	pathophysiology	Required	no	3
	1006601-3 (biochem)	Biochemistry& clinical chemistry	Required	no	3
	1006601-3 (resmeth)	Research Methodology	Required	no	3
	1006601-3 (biostat)	Biostatics in clinical toxicology	Required	no	3
Level 2	1006601-6 (CT-1)	clinical toxicology I course	Required	no	6
	1006601-6 (CT-1)	clinical toxicology I course	Required	no	6
	1006601-6 (CT-1)	clinical toxicology I course	Required	no	6
	1006601-6 (CT-1)	clinical toxicology I course	Required	no	6
	1006601-6 (CT-1)	clinical toxicology I course	Required	no	6
Level 3	**1006601-8 (CT-11)**	clinical toxicology II course	Required	no	8
	1006601-8 (CT11)	clinical toxicology II course	Required	no	8
	1006601-8 (CT-11)	clinical toxicology II course	Required	no	8
	1006601-8 (CT-11)	clinical toxicology II course	Required	no	8
	1006601-8 (CT-11)	clinical toxicology II course	Required	no	8
	1006601-8 (CT-11)	clinical toxicology II course	Required	no	8
Level 4	**1006601-24(resproj)**	Hospital Training &Research Project	Required	All previous	24

Include additional levels or courses if needed

4/1/4. Course Specification:

COURSE SPECIFICATIONS

Form

Course Title: pharmacology

Course Code: 1006601-3 (pharma)

Date: 1440	**Institution**:Umm AlQura University.
College:Medicine.**Department**:Pharmacology and Toxicology.	

A. Course Identification and General Information

1. Course title and code:pharmacology 1006601-3 (pharma)
2. Credit hours:3
3. Program(s) in which the course is offered.

   MSc Clinical Toxicology
4. Name of faculty member responsible for the course

   Pharmaology & toxicology department staff
5. Level/year at which this course is offered:1st semester
6. Pre-requisites for this course (if any):none
7. Co-requisites for this course (if any):none
8. Location if not on the main campus:NA
9. Mode of Instruction (mark all that apply):

a. Traditional classroom	٤٥	percentage?	
b. Blended (traditional and online)	٢٥	percentage?	
c. E-learning	١٥	percentage?	
d. Correspondence	-	percentage?	
f. Other:	٣٥	percentage?	

Field visits to emergency departments in hospitals and the Center for Toxicology

Comments:

B Objectives

1. The main objective of this course

- study and understand the main principals of basic & clinical pharmacology

2. Describe briefly any plans for developing and improving the course that is being implemented. (e.g. increased use of the IT or online reference material, changes in content as a result of new research in the field)

The course contents are derived from established materials available in textbooks and reference book as well as the online sources of materials like PubMed, PubChem, Science Direct and Up-to-Date. This course will continue to evolve in the outcome of its objectives with changes made with its contents and presentation methods to .provide the candidates with a comprehensive knowledge of the field of clinical toxicology

C. Course Description (Note: General description in the form used in the program's bulletin or handbook)

Course Description:

This course describes the basic and advance principles of pharmacology to help the candidates in understanding the kinetics, dynamics and toxic effects of chemicals and drugs on the human and animals tissues and systems.

1. Topics to be Covered

List of Topics	No. of Weeks	Contact hours
pharmacology, introductionand advanced principles	1	3
pharmacology, Autonomic Nervous System	2	3
Pharmacology, CNS & psychopharmacology	3	3
Pharmacology ,CVS	4	3
Pharmacology, RENAL system	5	3
Pharmacology, Respiratory system	6	3
Pharmacology, GIT	7	3
Pharmacology, anti-inflammatory anti- microbial	8	3
Pharmacology, chemotherapy	9	3

2. Course components (total contact and credit hours per semester):

		Lecture	Tutorial	Laboratory/ Studio	Practical	Other	Total
Contact Hours	Planned	27					27
	Actual	27					27
Credit	Planned	3					3
	Actual	3					3

3. Individualstudy/learning hours expected for students per week.	3

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategies

On the table below are the five NQF Learning Domains, numbered in the left column.

First, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table). **Second**, insert supporting teaching strategies that fit and align with the assessment methods and targeted learning outcomes. **Third**, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy should fit in together with the rest to form an integrated learning and teaching process. (Courses are not required to include learning outcomes from each domain.)

Curriculum Map

Code #	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
1.0	**Knowledge**		
1.1	By the end of this course the student can: - Complete and documented knowledges of the basics and clinical of pharmacology.	-interactive lectures -Practical lessons. -Seminars and tutorials -journals Clubs -scientific websites - Scientific references	-Periodic testing (multiple choice questions) MCQs -Practical Test (OSCE) - The final exam for each course
2.0	**Cognitive Skills**		
2.1	- utilize the basic and advanced knowledges to understand and identification the background of effects of chemicals, drugs and poisons on various body systems	-interactive lectures -Practical lessons. -Seminars and tutorials -journals Clubs -scientific websites - Scientific references	-Periodic testing (multiple choice questions) MCQs -Practical Test (OSCE) - The final exam for each course
3.0	**Interpersonal Skills & Responsibility**		
4.0	**Communication, Information Technology, Numerical**		
5.0	**Psychomotor(if any)**		
5.1			
5.2			

5. Assessment Task Schedule for Students During the Semester

	Assessment task (i.e., essay, test, quizzes, group project, examination, speech, oral presentation, etc.)	Week Due	Proportion of Total Assessment
1	MCQs + OSCE	end of the 1st sem	25%

D. Student Academic Counseling and Support

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic counseling. (include the time teaching staff are expected to be available per week) -The college has academic supervision program and applies this to all students of the college -There are office hours of four hours per week for all faculty members in the department and there is a list that sets the times of these office hours for each member on the door of his office - A list of all faculty members in the department and before each mobile number and e-mail address in the handbook, which is delivered to all students as they begin their program.

E-Learning Resources

1. List Required Textbooks **1. Basic and Clinical Pharmacology 13th E by Bertram Katzung and Anthony Trevor** **2. Goodman and Gilman's The Pharmacological Basis of Therapeutics, Twelfth E by Laurence Brunton and Bruce Chabner**
2. List Essential References Materials (Journals, Reports, etc.)
3. List Electronic Materials, Web Sites, Facebook, Twitter, etc.
4. Other learning material such as computer-based programs/CD, professional standards or regulations and software.

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access,etc.)
1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.) Two classrooms with 15 seats each & Two laboratories for 15 students each •
2. Technology resources (AV, data show, Smart Board, software, etc.) All class rooms and laboratories are equipped with data show projectors and wall white boards
3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list) Pharmacology and toxicology department well equipped with basic and advanced facilities needed for the candidates teaching , training and research.

G Course Evaluation and Improvement Procedures

1. Strategies for Obtaining Student's Feedback on Effectiveness of Teaching

Candidates will be able to evaluate the program by the end of the course via face contact, questionnaire or online evaluation forms.
2. Other Strategies for Evaluation of Teaching by the Instructor or the Department The developing and quality control committee of the department will conduct a systematic evaluation for the course procedures by monitoring the quality of teaching materials, exams and students' performance and their feedback.
3. Procedures for Teaching Development The developing and quality control committee of the department will encourage the professional faculty staff from our faculty or/and other toxicology centers toshare and collaboratein teaching, training and organizing specialized workshops to improve the quality of teaching processes.
4. Procedures for Verifying Standards of Student's Achievement (e.g. check marking by an independent member teaching staff of a sample of student's work, periodic exchange and remarking of tests or a sample of assignments with staff members at another institution) The developing and quality control committee of the department will carry out periodical check up on all steps of program to verify the students' accomplishments.
5. Describe the planning arrangements for periodically reviewing course effectiveness and planning for developing it. The developing and quality control committee of the department willperform a continuous evaluation and updating the program annually.

Name of Course Instructor : pharmacology & toxicology department staff

Signature: _____ Date Completed: _____

Program Coordinator:

Signature: _____ Date Received: _____

COURSE SPECIFICATIONS

Form

Course Title: Pathophysiology

Course Code: 1006601-3 (pathophysio)

Date: 1440	**Institution**:Umm AlQura University.
College:Medicine.	**Department**:Pharmacology and Toxicology.

A. Course Identification and General Information

1. Course title and code: Pathophysiology 1006601-3 (pathophysio)
2. Credit hours: 3
3. Program(s) in which the course is offered.

   MSc Clinical Toxicology
4. Name of faculty member responsible for the course

   Pharmaology & toxicology department staff
5. Level/year at which this course is offered: 1st semester
6. Pre-requisites for this course (if any): none
7. Co-requisites for this course (if any): none
8. Location if not on the main campus: NA
9. Mode of Instruction (mark all that apply):

a. Traditional classroom	٤٠	percentage?	
b. Blended (traditional and online)	٢٠	percentage?	
c. E-learning	١٠	percentage?	
d. Correspondence	-	percentage?	
f. Other:	٣٠	percentage?	

Field visits to emergency departments in hospitals and the Center for Toxicology

Comments:

B Objectives

1. The main objective of this course

- study and understand the main principals of pathophysiology

2. Describe briefly any plans for developing and improving the course that is being implemented. (e.g. increased use of the IT or online reference material, changes in content as a result of new research in the field)

The course contents are derived from established materials available in textbooks and reference book as well as the online sources of materials like PubMed, PubChem, Science Direct and Up-to-Date. This course will continue to evolve in the outcome of its objectives with changes made with its contents and presentation methods to provide the candidates with a comprehensive .knowledge of the field of clinical toxicology

C. Course Description (Note: General description in the form used in the program's bulletin or handbook)

Course Description:

This course describes the basic and advance principles of pathophsiology to help the candidates in understanding the body systems functions and disorders on the human and animals tissues and systems.

1. Topics to be Covered

List of Topics	No. of Weeks	Contact hours
Pathophsiology, cell biology, genetics Underlying mechanism of pain	1	3
Pathophsiology, inflammation & infection	2	3
Pathophsiology, immune process, allergy	3	3
Pathophsiology, CVS disorders	4	3
Pathophsiology, endocrine metabolic disorders	5	3
Pathophsiology, upper respiratory disorders	6	3
Pathophsiology, Lower respiratory disorders	7	3
Pathophsiology, Musculoskeletal disorders	8	3
Pathophsiology, gastrointestinal disorders	9	3
Pathophsiology, renal and urinary tract disorders	10	3
Pathophsiology, Reproductive system disorders	11	3

2. Course components (total contact and credit hours per semester):

		Lecture	Tutorial	Laboratory/ Studio	Practical	Other	Total
Contact Hours	Planned	33					33
	Actual	33					33
Credit	Planned	3					3
	Actual	3					3

3. Individualstudy/learning hours expected for students per week.

3

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategies

On the table below are the five NQF Learning Domains, numbered in the left column.

First, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table). **Second**, insert supporting teaching strategies that fit and align with the assessment methods and targeted learning outcomes. **Third**, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy should fit in together with the rest to form an integrated learning and teaching process. (Courses are not required to include learning outcomes from each domain.)

Curriculum Map

Code #	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
1.0	**Knowledge**		
1.1	By the end of this course the student can: - Complete and documented knowledges of the basics of pathophsiology	-interactive lectures -Practical lessons. -Seminars and tutorials -journals Clubs -scientific websites - Scientific references	-Periodic testing (multiple choice questions) MCQs -Practical Test (OSCE) - The final exam for each course
2.0	**Cognitive Skills**		
2.1	- utilize the basic and advanced knowledges to understand and identification the background of The pathology science, cell injury and death, adaptation	-interactive lectures -Practical lessons. -Seminars and tutorials -journals Clubs -scientific websites - Scientific references	-Periodic testing (multiple choice questions) MCQs -Practical Test (OSCE) - The final exam for each course
3.0	**Interpersonal Skills & Responsibility**		
4.0	**Communication, Information Technology, Numerical**		
5.0	**Psychomotor(if any)**		
5.1			
5.2			

5. Assessment Task Schedule for Students During the Semester

	Assessment task (i.e., essay, test, quizzes, group project, examination, speech, oral presentation, etc.)	Week Due	Proportion of Total Assessment
1	MCQs + OSCE	end of the 1st sem	25%

D. Student Academic Counseling and Support

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic counseling. (include the time teaching staff are expected to be available per week) -The college has academic supervision program and applies this to all students of the college -There are office hours of four hours per week for all faculty members in the department and there is a list that sets the times of these office hours for each member on the door of his office - A list of all faculty members in the department and before each mobile number and e-mail address in the handbook, which is delivered to all students as they begin their program.

E-Learning Resources

1. List Required Textbooks **١. 1.McCance, K. L., Huether, S. E., Brashers, V. L., & Rote, N. S. (2010). Pathophysiology: The biologic basis for disease in adults and children (6th ed.). Maryland Heights, MO:Mosby. ISBN: 978-0- 323-06584-9.**
2. List Essential References Materials (Journals, Reports, etc.)
3. List Electronic Materials, Web Sites, Facebook, Twitter, etc.
4. Other learning material such as computer-based programs/CD, professional standards or regulations and software.

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access,etc.)
1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.) Two classrooms with 15 seats each & Two laboratories for 15 students each •
2. Technology resources (AV, data show, Smart Board, software, etc.) All class rooms and laboratories are equipped with data show projectors and wall white boards
3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list) Pharmacology and toxicology department well equipped with basic and advanced facilities needed for the candidates teaching , training and research.

G Course Evaluation and Improvement Procedures

1. Strategies for Obtaining Student's Feedback on Effectiveness of Teaching

Candidates will be able to evaluate the program by the end of the course via face contact, questionnaire or online evaluation forms.
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3. Procedures for Teaching Development The developing and quality control committee of the department will encourage the professional faculty staff from our faculty or/and other toxicology centers to share and collaborate in teaching, training and organizing specialized workshops to improve the quality of teaching processes.
4. Procedures for Verifying Standards of Student's Achievement (e.g. check marking by an independent member teaching staff of a sample of student's work, periodic exchange and remarking of tests or a sample of assignments with staff members at another institution) The developing and quality control committee of the department will carry out periodical check up on all steps of program to verify the students' accomplishments.
5. Describe the planning arrangements for periodically reviewing course effectiveness and planning for developing it. The developing and quality control committee of the department will perform a continuous evaluation and updating the program annually.

Name of Course Instructor : pharmacology & toxicology department staff

Signature: _____ Date Completed: _____

Program Coordinator:

Signature: _____ Date Received: _____

COURSE SPECIFICATIONS

Form

Course Title: Biochemistry& clinical chemistry

Course Code: 1006601-3 (biochem)

Date: 1440	**Institution**:Umm AlQura University.
College:Medicine.	**Department**:Pharmacology and Toxicology.

A. Course Identification and General Information

1. Course title and code: Biochemistry& clinical chemistry 1006601-3 (biochem)
2. Credit hours: 3
3. Program(s) in which the course is offered.

   MSc Clinical Toxicology
4. Name of faculty member responsible for the course

   Pharmaology & toxicology department staff
5. Level/year at which this course is offered: 1st semester
6. Pre-requisites for this course (if any): none
7. Co-requisites for this course (if any): none
8. Location if not on the main campus: NA
9. Mode of Instruction (mark all that apply):

a. Traditional classroom	٤٥	percentage?	
b. Blended (traditional and online)	٢٥	percentage?	
c. E-learning	١٥	percentage?	
d. Correspondence	-	percentage?	
f. Other:	٣٥	percentage?	

Field visits to emergency departments in hospitals and the Center for Toxicology

Comments:

B Objectives

1. The main objective of this course

- study and understand the main principals of Biochemistry& clinical chemistry

2. Describe briefly any plans for developing and improving the course that is being implemented. (e.g. increased use of the IT or online reference material, changes in content as a result of new research in the field)

The course contents are derived from established materials available in textbooks and reference book as well as the online sources of materials like PubMed, PubChem, Science Direct and Up-to-Date. This course will continue to evolve in the outcome of its objectives with changes made with its contents and presentation methods to provide the candidates with a comprehensive .knowledge of the field of clinical toxicology

C. Course Description (Note: General description in the form used in the program's bulletin or handbook)

Course Description:

This course describes the basic and advance principles of Biochemistry& clinical chemistry to help the candidates in understanding the body systems functions and disorders on the human and animals tissues and systems.

1. Topics to be Covered

List of Topics	No. of Weeks	Contact hours
clinical biochemistry, biochemistry of diseases	1	3
clinical biochemistry, clinical chemistry laboratory and organ system	2	3
clinical biochemistry, Diabetes Mellitus	3	3
clinical biochemistry, type 1 Diabetes M.	4	3
clinical biochemistry, other carbohydrate metabolic disorders	5	3
clinical biochemistry, renal control of acid – base balance	6	3
clinical biochemistry, assessment of cardiovascular disorders	7	3
clinical biochemistry, assessment of respiratory disorders	8	3
clinical biochemistry, assessment of nutrition and digestive function	9	3

clinical biochemistry, adrenal hormones and adrenal medulla disorders	10	3

2. Course components (total contact and credit hours per semester):

		Lecture	Tutorial	Laboratory/ Studio	Practical	Other	Total
Contact Hours	Planned	30					30
	Actual	30					30
Credit	Planned	3					3
	Actual	3					3

3. Individualstudy/learning hours expected for students per week. 3

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategies

On the table below are the five NQF Learning Domains, numbered in the left column.

First, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table). **Second**, insert supporting teaching strategies that fit and align with the assessment methods and targeted learning outcomes. **Third**, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy should fit in together with the rest to form an integrated learning and teaching process. (Courses are not required to include learning outcomes from each domain.)

Curriculum Map

Code #	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
1.0	**Knowledge**		
1.1	By the end of this course the student can: - Complete and documented knowledges of the basics of Biochemistry& clinical chemistry	-interactive lectures -Practical lessons. -Seminars and tutorials -journals Clubs -scientific websites - Scientific references	-Periodic testing (multiple choice questions) MCQs -Practical Test (OSCE) - The final exam for each course
2.0	**Cognitive Skills**		
2.1	- utilize the basic and advanced knowledges to understand and identification the background of The Biochemistry& clinical chemistry	-interactive lectures -Practical lessons. -Seminars and tutorials -journals Clubs -scientific websites - Scientific references	-Periodic testing (multiple choice questions) MCQs -Practical Test (OSCE) - The final exam for each course
3.0	**Interpersonal Skills & Responsibility**		
4.0	**Communication, Information Technology, Numerical**		
5.0	**Psychomotor(if any)**		
5.1			

5.2			

5. Assessment Task Schedule for Students During the Semester			
	Assessment task (i.e., essay, test, quizzes, group project, examination, speech, oral presentation, etc.)	**Week Due**	**Proportion of Total Assessment**
1	MCQs + OSCE	end of the 1st sem	25%

D. Student Academic Counseling and Support

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic counseling. (include the time teaching staff are expected to be available per week) -The college has academic supervision program and applies this to all students of the college -There are office hours of four hours per week for all faculty members in the department and there is a list that sets the times of these office hours for each member on the door of his office - A list of all faculty members in the department and before each mobile number and e-mail address in the handbook, which is delivered to all students as they begin their program.

E-Learning Resources

1. List Required Textbooks ***1. Required Text(s)*** **.٢** **Clinical Biochemistry (an illustrated colour text). Allan Gaw – Churchill .٣ Livingstone**
2. List Essential References Materials (Journals, Reports, etc.)
3. List Electronic Materials, Web Sites, Facebook, Twitter, etc.
4. Other learning material such as computer-based programs/CD, professional standards or regulations and software.

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access,etc.)
1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.) Two classrooms with 15 seats each & Two laboratories for 15 students each •
2. Technology resources (AV, data show, Smart Board, software, etc.) All class rooms and laboratories are equipped with data show projectors and wall white boards
3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list) Pharmacology and toxicology department well equipped with basic and advanced facilities needed for the candidates teaching , training and research.

G Course Evaluation and Improvement Procedures

1. Strategies for Obtaining Student's Feedback on Effectiveness of Teaching

Candidates will be able to evaluate the program by the end of the course via face contact, questionnaire or online evaluation forms.
2. Other Strategies for Evaluation of Teaching by the Instructor or the Department The developing and quality control committee of the department will conduct a systematic evaluation for the course procedures by monitoring the quality of teaching materials, exams and students' performance and their feedback.
3. Procedures for Teaching Development The developing and quality control committee of the department will encourage the professional faculty staff from our faculty or/and other toxicology centers to share and collaborate in teaching, training and organizing specialized workshops to improve the quality of teaching processes.
4. Procedures for Verifying Standards of Student's Achievement (e.g. check marking by an independent member teaching staff of a sample of student's work, periodic exchange and remarking of tests or a sample of assignments with staff members at another institution) The developing and quality control committee of the department will carry out periodical check up on all steps of program to verify the students' accomplishments.
5. Describe the planning arrangements for periodically reviewing course effectiveness and planning for developing it. The developing and quality control committee of the department will perform a continuous evaluation and updating the program annually.

Name of Course Instructor : pharmacology & toxicology department staff

Signature: _____ Date Completed: _____

Program Coordinator:

Signature: _____ Date Received: _____

COURSE SPECIFICATIONS

Form

Course Title: Biostatics in clinical toxicology

Course Code: 1006601-3 (biostat)

Date: 1440	**Institution**:Umm AlQura University.
College:Medicine.	**Department**:Pharmacology and Toxicology.

A. Course Identification and General Information

1. Course title and code: Biostatics in clinical toxicology 1006601-3 (biostat)
2. Credit hours: 3
3. Program(s) in which the course is offered.

   MSc Clinical Toxicology
4. Name of faculty member responsible for the course

   Pharmaology & toxicology department staff
5. Level/year at which this course is offered: 1st semester
6. Pre-requisites for this course (if any): none
7. Co-requisites for this course (if any): none
8. Location if not on the main campus: NA
9. Mode of Instruction (mark all that apply):

a. Traditional classroom	٨٠	percentage?	
b. Blended (traditional and online)	٢٠	percentage?	
c. E-learning	١٠	percentage?	
d. Correspondence	-	percentage?	
f. Other:	٣٠	percentage?	

Field visits to emergency departments in hospitals and the Center for Toxicology

Comments:

B Objectives

1. The main objective of this course

- study and understand the main principals of Biostatics

2. Describe briefly any plans for developing and improving the course that is being implemented. (e.g. increased use of the IT or online reference material, changes in content as a result of new research in the field)

The course contents are derived from established materials available in textbooks and reference book as well as the online sources of materials like PubMed, PubChem, Science Direct and Up-to-Date. This course will continue to evolve in the outcome of its objectives with changes made with its contents and presentation methods to provide the candidates with a comprehensive .knowledge of the field of clinical toxicology

C. Course Description (Note: General description in the form used in the program's bulletin or handbook)

Course Description:

This course describes the basic and advance principles of Biostatics to help the candidates in understanding the analysis and interpretation the results and outcomes of the toxicology studies and excremental.

1. Topics to be Covered

List of Topics	No. of Weeks	Contact hours
Biostatistics, introduction& data, types of data, types of variable	1	3
Biostatistics, introduction to epidemiology	2	3
Biostatistics, measures of central tendency, mean, median .and mode	3	3
Biostatistics, methods of data presentation	4	3
Biostatistics, Measures of dispersion , Range, variance, standard deviation and coefficient of variance	5	3
Biostatistics, Normal Distribution	6	3
Biostatistics, standard errors and confidence interval	7	3
Biostatistics, P value and level of significance	8	3
Biostatistics, hypothesis testing power	9	3

Biostatistics, Test of significance Z test, t test Choosing test of significance	10	3
Biostatistics, Chi square test	11	3
Biostatistics, Choosing test of significance	12	3

2. Course components (total contact and credit hours per semester):

		Lecture	Tutorial	Laboratory/ Studio	Practical	Other	Total
Contact Hours	Planned	36					36
	Actual	36					36
Credit	Planned	3					3
	Actual	3					3

3. Individualstudy/learning hours expected for students per week. 3

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategies

On the table below are the five NQF Learning Domains, numbered in the left column.

First, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table). **Second**, insert supporting teaching strategies that fit and align with the assessment methods and targeted learning outcomes. **Third**, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy should fit in together with the rest to form an integrated learning and teaching process. (Courses are not required to include learning outcomes from each domain.)

Curriculum Map

Code #	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
1.0	**Knowledge**		
1.1	By the end of this course the student can: - Complete and documented knowledge of the basics of Biostatistics	-interactive lectures -Practical lessons. -Seminars and tutorials -journals Clubs -scientific websites - Scientific references	-Periodic testing (multiple choice questions) MCQs -Practical Test (OSCE) - The final exam for each course
2.0	**Cognitive Skills**		
2.1	- utilize the basic and advanced knowledge to understand and identification the background of The Biostatistics science	-interactive lectures -Practical lessons. -Seminars and tutorials -journals Clubs -scientific websites - Scientific references	-Periodic testing (multiple choice questions) MCQs -Practical Test (OSCE) - The final exam for each course
3.0	**Interpersonal Skills & Responsibility**		
4.0	**Communication, Information Technology, Numerical**		

5.0	**Psychomotor(if any)**		
5.1			
5.2			

5. Assessment Task Schedule for Students During the Semester			
	Assessment task (i.e., essay, test, quizzes, group project, examination, speech, oral presentation, etc.)	**Week Due**	**Proportion of Total Assessment**
1	MCQs + OSCE	end of the 1st sem	25%

D. Student Academic Counseling and Support

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic counseling. (include the time teaching staff are expected to be available per week) -The college has academic supervision program and applies this to all students of the college -There are office hours of four hours per week for all faculty members in the department and there is a list that sets the times of these office hours for each member on the door of his office - A list of all faculty members in the department and before each mobile number and e-mail address in the handbook, which is delivered to all students as they begin their program.

E-Learning Resources

1. List Required Textbooks **Text Book: Daniel, W. W. and C. L. Cross. 2013. Biostatistics: a foundation for analysis in the health sciences, 10 ed. New York: John Wiley and Sons.** ٤.
2. List Essential References Materials (Journals, Reports, etc.)
3. List Electronic Materials, Web Sites, Facebook, Twitter, etc.
4. Other learning material such as computer-based programs/CD, professional standards or regulations and software.

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access,etc.)
1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.) • Two classrooms with 15 seats each & Two laboratories for 15 students each
2. Technology resources (AV, data show, Smart Board, software, etc.) All class rooms and laboratories are equipped with data show projectors and wall white boards
3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list) Pharmacology and toxicology department well equipped with basic and advanced facilities needed for the candidates teaching , training and research.

G Course Evaluation and Improvement Procedures

1. Strategies for Obtaining Student's Feedback on Effectiveness of Teaching

Candidates will be able to evaluate the program by the end of the course via face contact, questionnaire or online evaluation forms.
2. Other Strategies for Evaluation of Teaching by the Instructor or the Department The developing and quality control committee of the department will conduct a systematic evaluation for the course procedures by monitoring the quality of teaching materials, exams and students' performance and their feedback.
3. Procedures for Teaching Development The developing and quality control committee of the department will encourage the professional faculty staff from our faculty or/and other toxicology centers to share and collaborate in teaching, training and organizing specialized workshops to improve the quality of teaching processes.
4. Procedures for Verifying Standards of Student's Achievement (e.g. check marking by an independent member teaching staff of a sample of student's work, periodic exchange and remarking of tests or a sample of assignments with staff members at another institution) The developing and quality control committee of the department will carry out periodical check up on all steps of program to verify the students' accomplishments.
5. Describe the planning arrangements for periodically reviewing course effectiveness and planning for developing it. The developing and quality control committee of the department will perform a continuous evaluation and updating the program annually.

Name of Course Instructor : pharmacology & toxicology department staff

Signature: _____ Date Completed: _____

Program Coordinator:

Signature: _____ Date Received: _____

COURSE SPECIFICATIONS

Form

Course Title: Research Methodology

Course Code: 1006601-3 (resmeth)

Date: 1440	**Institution**:Umm AlQura University.
College:Medicine.	**Department**:Pharmacology and Toxicology.

A. Course Identification and General Information

1. Course title and code: Research Methodology 1006601-3 (resmeth)
2. Credit hours: 3
3. Program(s) in which the course is offered.

   MSc Clinical Toxicology
4. Name of faculty member responsible for the course

   Pharmacology & toxicology department staff
5. Level/year at which this course is offered: 1st semester
6. Pre-requisites for this course (if any): none
7. Co-requisites for this course (if any): none
8. Location if not on the main campus: NA
9. Mode of Instruction (mark all that apply):

a. Traditional classroom	40	percentage?	
b. Blended (traditional and online)	20	percentage?	
c. E-learning	10	percentage?	
d. Correspondence	-	percentage?	
f. Other:	30	percentage?	

Field visits to emergency departments in hospitals and the Center for Toxicology

Comments:

B Objectives

1. The main objective of this course

- study and understand the main principals of research methodology

2. Describe briefly any plans for developing and improving the course that is being implemented. (e.g. increased use of the IT or online reference material, changes in content as a result of new research in the field)

The course contents are derived from established materials available in textbooks and reference book as well as the online sources of materials like PubMed, PubChem, Science Direct and Up-to-Date. This course will continue to evolve in the outcome of its objectives with changes made with its contents and presentation methods to provide the candidates with a comprehensive knowledge of the field of clinical toxicology.

C. Course Description (Note: General description in the form used in the program's bulletin or handbook)

Course Description:

This course describes the basic and advance principles of research methodology to help the candidates in understanding the analysis and interpretation the results and outcomes of the toxicology studies and excremental.

1. Topics to be Covered

List of Topics	No. of Weeks	Contact hours
Research Methodology, Research fundamental and terminology	1	3
Research Methodology, importance of research and management research	2	3
Research Methodology, limitation of research , defining research problems and formulation of hypothesis	3	3
Research Methodology, research design	4	3
Research Methodology, Data collection	5	3
Research Methodology, sampling and sampling distribution	6	3
Research Methodology, attenuate measurement, types of scales and data presentation	7	3
Research Methodology, statistical analysis and data interpretation	8	3
Research Methodology, multivariaty analysis of data	9	3
Research Methodology, model bluing and dission making	10	3

Research Methodology, writing and formulating of reports	11	3
Research Methodology, factor analysis	12	3

2. Course components (total contact and credit hours per semester):

		Lecture	Tutorial	Laboratory/ Studio	Practical	Other	Total
Contact Hours	Planned	36					36
	Actual	36					36
Credit	Planned	3					3
	Actual	3					3

3. Individualstudy/learning hours expected for students per week. 3

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategies

On the table below are the five NQF Learning Domains, numbered in the left column.

First, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table). **Second**, insert supporting teaching strategies that fit and align with the assessment methods and targeted learning outcomes. **Third**, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy should fit in together with the rest to form an integrated learning and teaching process. (Courses are not required to include learning outcomes from each domain.)

Curriculum Map

Code #	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
1.0	**Knowledge**		
1.1	By the end of this course the student can: - Complete and documented knowledge of the basics of research methodology	-interactive lectures -Practical lessons. -Seminars and tutorials -journals Clubs -scientific websites - Scientific references	-Periodic testing (multiple choice questions) MCQs -Practical Test (OSCE) - The final exam for each course
2.0	**Cognitive Skills**		
2.1	- utilize the basic and advanced knowledge to understand and identification the background of The research methodology science	-interactive lectures -Practical lessons. -Seminars and tutorials -journals Clubs -scientific websites - Scientific references	-Periodic testing (multiple choice questions) MCQs -Practical Test (OSCE) - The final exam for each course
3.0	**Interpersonal Skills & Responsibility**		
4.0	**Communication, Information Technology, Numerical**		
5.0	**Psychomotor(if any)**		
5.1			

5.2			

5. Assessment Task Schedule for Students During the Semester			
	Assessment task (i.e., essay, test, quizzes, group project, examination, speech, oral presentation, etc.)	**Week Due**	**Proportion of Total Assessment**
1	MCQs + OSCE	end of the 1st sem	25%

D. Student Academic Counseling and Support

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic counseling. (include the time teaching staff are expected to be available per week) -The college has academic supervision program and applies this to all students of the college -There are office hours of four hours per week for all faculty members in the department and there is a list that sets the times of these office hours for each member on the door of his office - A list of all faculty members in the department and before each mobile number and e-mail address in the handbook, which is delivered to all students as they begin their program.

E-Learning Resources

1. List Required Textbooks **Text Book: Dipak Kumar Bhattachcharyy, Research Methodology Paoerback. .٥ 2013, Publisher, Excel Books,3rd E**
2. List Essential References Materials (Journals, Reports, etc.)
3. List Electronic Materials, Web Sites, Facebook, Twitter, etc.
4. Other learning material such as computer-based programs/CD, professional standards or regulations and software.

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access,etc.)
1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.) Two classrooms with 15 seats each & Two laboratories for 15 students each •
2. Technology resources (AV, data show, Smart Board, software, etc.) All class rooms and laboratories are equipped with data show projectors and wall white boards
3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list) Pharmacology and toxicology department well equipped with basic and advanced facilities needed for the candidates teaching , training and research.

G Course Evaluation and Improvement Procedures

1. Strategies for Obtaining Student's Feedback on Effectiveness of Teaching Candidates will be able to evaluate the program by the end of the course via face contact, questionnaire or online evaluation forms.
2. Other Strategies for Evaluation of Teaching by the Instructor or the Department

The developing and quality control committee of the department will conduct a systematic evaluation for the course procedures by monitoring the quality of teaching materials, exams and students' performance and their feedback.
3. Procedures for Teaching Development The developing and quality control committee of the department will encourage the professional faculty staff from our faculty or/and other toxicology centers to share and collaborate in teaching, training and organizing specialized workshops to improve the quality of teaching processes.
4. Procedures for Verifying Standards of Student's Achievement (e.g. check marking by an independent member teaching staff of a sample of student's work, periodic exchange and remarking of tests or a sample of assignments with staff members at another institution) The developing and quality control committee of the department will carry out periodical check up on all steps of program to verify the students' accomplishments.
5. Describe the planning arrangements for periodically reviewing course effectiveness and planning for developing it. The developing and quality control committee of the department will perform a continuous evaluation and updating the program annually.

Name of Course Instructor : pharmacology & toxicology department staff

Signature: _____ Date Completed: _____

Program Coordinator:

Signature: _____ Date Received: _____

COURSE SPECIFICATIONS

Form

Course Title: clinical toxicology I course

Course Code: 1006601-6 (CT1)

Date: 1440	**Institution**:Umm AlQura University.
College:Medicine.	**Department**:Pharmacology and Toxicology.

A. Course Identification and General Information

1. Course title and code: clinical toxicology I course 1006601-6 (CT1)
2. Credit hours: 6
3. Program(s) in which the course is offered.

   MSc Clinical Toxicology
4. Name of faculty member responsible for the course

   Pharmaology & toxicology department staff
5. Level/year at which this course is offered: 1st semester
6. Pre-requisites for this course (if any): none
7. Co-requisites for this course (if any): none
8. Location if not on the main campus: NA
9. Mode of Instruction (mark all that apply):

a. Traditional classroom	٤٠	percentage?	
b. Blended (traditional and online)	٢٠	percentage?	
c. E-learning	١٠	percentage?	
d. Correspondence	-	percentage?	
f. Other:	٣٠	percentage?	

Field visits to emergency departments in hospitals and the Center for Toxicology

Comments:

B Objectives

1. The main objective of this course

- study and understand the main principals of clinical toxicology I course

2. Describe briefly any plans for developing and improving the course that is being implemented. (e.g. increased use of the IT or online reference material, changes in content as a result of new research in the field)

The course contents are derived from established materials available in textbooks and reference book as well as the online sources of materials like PubMed, PubChem, Science Direct and Up-to-Date. This course will continue to evolve in the outcome of its objectives with changes made with its contents and presentation methods to provide the candidates with a comprehensive ,knowledge of the field of clinical toxicology

C. Course Description (Note: General description in the form used in the program's bulletin or handbook)

Course Description:

This course describes the basic and advance principles of clinical toxicology I course to help the candidate have to describe stages of drug developmentand understanding the preclinical and clinical testing of drugs, post-marketing, Surveillance the pharmaceutical industry.

1. Topics to be Covered

List of Topics	No. of Weeks	Contact hours
drug safety and Pharmacovigilance, drug development and drug safety	1	3
drug safety and Pharmacovigilance, adverse drug reactions	2	3
drug safety and Pharmacovigilance, drug-drug interaction	3	3
drug safety and Pharmacovigilance, pharmacogenetics	4	3
drug safety and Pharmacovigilance ,topical, herbal ,homeopathic and OTC medications	5	3
drug safety and Pharmacovigilance ,mechanism of toxicity	6	3
drug safety and Pharmacovigilance ,toxicokinetics and toxicodynamics	7	3
drug safety and Pharmacovigilance ,Risk assessment and risk management	8	3
drug safety and Pharmacovigilance ,carcinogenesis	9	3

drug safety and Pharmacovigilance ,Reproductive toxicology	10	3
drug safety and Pharmacovigilance ,Analgesics	11	3
drug safety and Pharmacovigilance ,Antidepressants	12	3
drug safety and Pharmacovigilance ,drugs affecting ANS	13	3
drug safety and Pharmacovigilance ,Animal and plant toxins	14	3
drug safety and Pharmacovigilance ,Drugs affecting CNS	15	3
drug safety and Pharmacovigilance ,Drugs affecting CVS	16	3
drug safety and Pharmacovigilance ,Drugs affecting Respiratory system	17	3
drug safety and Pharmacovigilance ,Drugs affecting Endocrine system	18	3
drug safety and Pharmacovigilance ,Chemotherapy	19	3

2. Course components (total contact and credit hours per semester):

		Lecture	Tutorial	Laboratory/ Studio	Practical	Other	Total
Contact Hours	Planned	57					57
	Actual	57					57
Credit	Planned	6					6
	Actual	6					6

3. Individualstudy/learning hours expected for students per week. 3-6

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategies

On the table below are the five NQF Learning Domains, numbered in the left column.

First, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table). **Second**, insert supporting teaching strategies that fit and align with the assessment methods and targeted learning outcomes. **Third**, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy should fit in together with the rest to form an integrated learning and teaching process. (Courses are not required to include learning outcomes from each domain.)

Curriculum Map

Code #	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
1.0	**Knowledge**		
1.1	By the end of this course the student can: - Complete and documented knowledge of the basics of clinical toxicology I	-interactive lectures -Practical lessons. -Seminars and tutorials	-Periodic testing (multiple choice questions) MCQs

		-journals Clubs -scientific websites - Scientific references	-Practical Test (OSCE) - The final exam for each course
2.0	**Cognitive Skills**		
2.1	- utilize the basic and advanced knowledge to understand and identification the background of The clinical toxicology I	-interactive lectures -Practical lessons. -Seminars and tutorials -journals Clubs -scientific websites - Scientific references	-Periodic testing (multiple choice questions) MCQs -Practical Test (OSCE) - The final exam for each course
3.0	**Interpersonal Skills & Responsibility**		
4.0	**Communication, Information Technology, Numerical**		
5.0	**Psychomotor(if any)**		

5. Assessment Task Schedule for Students During the Semester

	Assessment task (i.e., essay, test, quizzes, group project, examination, speech, oral presentation, etc.)	Week Due	Proportion of Total Assessment
1	MCQs + OSCE	end of the 2nd sem	25%

D. Student Academic Counseling and Support

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic counseling. (include the time teaching staff are expected to be available per week) -The college has academic supervision program and applies this to all students of the college -There are office hours of four hours per week for all faculty members in the department and there is a list that sets the times of these office hours for each member on the door of his office - A list of all faculty members in the department and before each mobile number and e-mail address in the handbook, which is delivered to all students as they begin their program.

E-Learning Resources

1. List Required Textbooks ٦. **1.Clinical Toxicology: Principles and Mechanisms, Second Edition Hardcover– February 15, 2010 by Frank A. Barile** ٧. **2.Principles And Practice Of Toxicology In Public Health Paperback – July 26, 2013 by Ira S. Richards , Marie Bourgeois**
2. List Essential References Materials (Journals, Reports, etc.)
3. List Electronic Materials, Web Sites, Facebook, Twitter, etc.
4. Other learning material such as computer-based programs/CD, professional standards or regulations and software.

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access,etc.)
1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.) • Two classrooms with 15 seats each & Two laboratories for 15 students each
2. Technology resources (AV, data show, Smart Board, software, etc.) All class rooms and laboratories are equipped with data show projectors and wall white boards
3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list) Pharmacology and toxicology department well equipped with basic and advanced facilities needed for the candidates teaching , training and research.

G Course Evaluation and Improvement Procedures

1. Strategies for Obtaining Student's Feedback on Effectiveness of Teaching Candidates will be able to evaluate the program by the end of the course via face contact, questionnaire or online evaluation forms.

2. Other Strategies for Evaluation of Teaching by the Instructor or the Department The developing and quality control committee of the department will conduct a systematic evaluation for the course procedures by monitoring the quality of teaching materials, exams and students' performance and their feedback.
3. Procedures for Teaching Development The developing and quality control committee of the department will encourage the professional faculty staff from our faculty or/and other toxicology centers to share and collaborate in teaching, training and organizing specialized workshops to improve the quality of teaching processes.
4. Procedures for Verifying Standards of Student's Achievement (e.g. check marking by an independent member teaching staff of a sample of student's work, periodic exchange and remarking of tests or a sample of assignments with staff members at another institution) The developing and quality control committee of the department will carry out periodical check up on all steps of program to verify the students' accomplishments.
5. Describe the planning arrangements for periodically reviewing course effectiveness and planning for developing it. The developing and quality control committee of the department will perform a continuous evaluation and updating the program annually.

Name of Course Instructor : pharmacology & toxicology department staff

Signature: _____ Date Completed: _____

Program Coordinator:

Signature: _____ Date Received: _____

COURSE SPECIFICATIONS

Form

Course Title: Clinical Toxicology II course

Course Code: **1006601-8(CT11)**

Date: 1440	**Institution**:Umm AlQura University.
College:Medicine.	**Department**:Pharmacology and Toxicology.

A. Course Identification and General Information

1. Course title and code: clinical toxicology II course**1006601-8 (CT11)**
2. Credit hours: 8
3. Program(s) in which the course is offered.

   MSc Clinical Toxicology
4. Name of faculty member responsible for the course

   Pharmaology & toxicology department staff
5. Level/year at which this course is offered: 1st semester
6. Pre-requisites for this course (if any): none
7. Co-requisites for this course (if any): none
8. Location if not on the main campus: NA
9. Mode of Instruction (mark all that apply):

a. Traditional classroom	٤٠	percentage?	
b. Blended (traditional and online)	٢٠	percentage?	
c. E-learning	١٠	percentage?	
d. Correspondence	-	percentage?	
f. Other:	٣٠	percentage?	

Field visits to emergency departments in hospitals and the Center for Toxicology

Comments:

B Objectives

1. The main objective of this course

- study and understand the main principals of clinical toxicology II course

2. Describe briefly any plans for developing and improving the course that is being implemented. (e.g. increased use of the IT or online reference material, changes in content as a result of new research in the field)

The course contents are derived from established materials available in textbooks and reference book as well as the online sources of materials like PubMed, PubChem, Science Direct and Up-to-Date. This course will continue to evolve in the outcome of its objectives with changes made with its contents and presentation methods to provide the candidates with a comprehensive knowledge of the field of clinical toxicology.

C. Course Description (Note: General description in the form used in the program's bulletin or handbook)

Course Description:

This course describes the basic and advance principles of clinical toxicology II course to help the candidate have to explain and discuss the signs and symptoms and how to diagnose acute and chronic toxicity in man

1. Topics to be Covered

List of Topics	No. of Weeks	Contact hours
management and prevention of toxicology ,diagnosis of poisoning	1	3
management and prevention of toxicology ,management of poisoning I	2	3
management and prevention of toxicology ,management of poisoning 2	3	3
management and prevention of toxicology ,Antidotes	4	3
management and prevention of toxicology ,prevention of poisoning	5	3
management and prevention of toxicology ,Regulatory toxicology	6	3
management and prevention of toxicology ,Classification and epidemiology of poisoning	7	3
management and prevention of toxicology ,Industrial toxicology I	8	3

management and prevention of toxicology ,Industrial toxicology 2	9	3
management and prevention of toxicology ,Forensic toxicology	10	3
management and prevention of toxicology ,Pesticide	11	3
management and prevention of toxicology ,Risks in environment 1	12	3
management and prevention of toxicology ,Risks in environment 2	13	3
management and prevention of toxicology ,Management of chemical incidence	14	3
management and prevention of toxicology ,analytical toxicology	15	3

2. Course components (total contact and credit hours per semester):

		Lecture	Tutorial	Laboratory/ Studio	Practical	Other	Total
Contact Hours	Planned	45					45
	Actual	45					45
Credit	Planned	8					8
	Actual	8					8

3. Individualstudy/learning hours expected for students per week. 3-6

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategies

On the table below are the five NQF Learning Domains, numbered in the left column.

First, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table). **Second**, insert supporting teaching strategies that fit and align with the assessment methods and targeted learning outcomes. **Third**, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy should fit in together with the rest to form an integrated learning and teaching process. (Courses are not required to include learning outcomes from each domain.)

Curriculum Map

Code #	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
1.0	**Knowledge**		
1.1	By the end of this course the student can: - Complete and documented knowledges of the basics of clinical toxicology II course	-interactive lectures -Practical lessons. -Seminars and tutorials	-Periodic testing (multiple choice questions) MCQs

		-journals Clubs -scientific websites - Scientific references	-Practical Test (OSCE) - The final exam for each course
2.0	**Cognitive Skills**		
2.1	- utilize the basic and advanced knowledges to understand and identification the background of The clinical toxicology II course	-interactive lectures -Practical lessons. -Seminars and tutorials -journals Clubs -scientific websites - Scientific references	-Periodic testing (multiple choice questions) MCQs -Practical Test (OSCE) - The final exam for each course
3.0	**Interpersonal Skills & Responsibility**		
4.0	**Communication, Information Technology, Numerical**		
5.0	**Psychomotor(if any)**		

5. Assessment Task Schedule for Students During the Semester

	Assessment task (i.e., essay, test, quizzes, group project, examination, speech, oral presentation, etc.)	Week Due	Proportion of Total Assessment
1	MCQs + OSCE	end of the 3rd sem	25%

D. Student Academic Counseling and Support

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic counseling. (include the time teaching staff are expected to be available per week) -The college has academic supervision program and applies this to all students of the college -There are office hours of four hours per week for all faculty members in the department and there is a list that sets the times of these office hours for each member on the door of his office - A list of all faculty members in the department and before each mobile number and e-mail address in the handbook, which is delivered to all students as they begin their program.

E-Learning Resources

1. List Required Textbooks **1-Clinical Toxicology: Principles and Mechanisms, Second Edition .٨** **Hardcover– February 15, 2010 by Frank A. Barile** **2-Principles And Practice Of Toxicology In Public Health Paperback – July .٩** **26, 2013 by Ira S. Richards , Marie Bourgeois**
2. List Essential References Materials (Journals, Reports, etc.)
3. List Electronic Materials, Web Sites, Facebook, Twitter, etc.
4. Other learning material such as computer-based programs/CD, professional standards or regulations and software.

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access,etc.)
1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.) Two classrooms with 15 seats each & Two laboratories for 15 students each •
2. Technology resources (AV, data show, Smart Board, software, etc.) All class rooms and laboratories are equipped with data show projectors and wall white boards
3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list) Pharmacology and toxicology department well equipped with basic and advanced facilities needed for the candidates teaching , training and research.

G Course Evaluation and Improvement Procedures

1. Strategies for Obtaining Student's Feedback on Effectiveness of Teaching Candidates will be able to evaluate the program by the end of the course via face contact, questionnaire or online evaluation forms.
2. Other Strategies for Evaluation of Teaching by the Instructor or the Department The developing and quality control committee of the department will conduct a systematic evaluation for the course procedures by monitoring the quality of teaching materials, exams and students' performance and their feedback.
3. Procedures for Teaching Development The developing and quality control committee of the department will encourage the professional faculty staff from our faculty or/and other toxicology centers to share and collaborate in teaching, training and organizing specialized workshops to improve the quality of teaching processes.
4. Procedures for Verifying Standards of Student's Achievement (e.g. check marking by an independent member teaching staff of a sample of student's work, periodic exchange and remarking of tests or a sample of assignments with staff members at another institution) The developing and quality control committee of the department will carry out periodical check up on all steps of program to verify the students' accomplishments.
5. Describe the planning arrangements for periodically reviewing course effectiveness and planning for developing it. The developing and quality control committee of the department will perform a continuous evaluation and updating the program annually.

Name of Course Instructor : pharmacology & toxicology department staff

Signature: _____ Date Completed: _____

Program Coordinator:

Signature: _____ Date Received: _____

COURSE SPECIFICATIONS

Form

Course Title: Research Project

Course Code: 1006601-24 (resproj)

Date: 1440	**Institution**:Umm AlQura University.
College:Medicine.	**Department**:Pharmacology and Toxicology.

A. Course Identification and General Information

1. Course title and code: research project 1006601-24 (resproj)
2. Credit hours: 24
3. Program(s) in which the course is offered.

   MSc Clinical Toxicology
4. Name of faculty member responsible for the course

   All Pharmacology & toxicology department staff
5. Level/year at which this course is offered: 4st semester
6. Pre-requisites for this course (if any): all previous courses covered in 1st, 2nd and 3rd semesters
7. Co-requisites for this course (if any): none
8. Location if not on the main campus: NA
9. Mode of Instruction (mark all that apply):

a. Traditional classroom	-	percentage?	
b. Blended (traditional and online)	-	percentage?	
c. E-learning	-	percentage?	
d. Correspondence	-	percentage?	
f. Other:	100	percentage?	

Field visits to emergency departments in hospitals and the Center for Toxicology

Comments:

B Objectives

1. The main objective of this course

A. To provide the chance for original and independent research, including both practical and theoretical components, on a hot topic in clinical toxicology.
B. To develop and train on skills in time management.
C. To develop skills in formulating testable hypotheses

2. Describe briefly any plans for developing and improving the course that is being implemented. (e.g. increased use of the IT or online reference material, changes in content as a result of new research in the field)

A. The research projected signed depending on the knowledge of established material available in textbooks, online reference material and availability of new research data as to date.
B. The research project advances its objectives with changes made with its contents and presentation methods to provide the candidates with a comprehensive knowledge of research management and results analysis.

C. Course Description (Note: General description in the form used in the program's bulletin or handbook)

Course Description:

1. The project will entail each candidate four months of full-time work investigating a hot topic related to clinical toxicology and resulting in the submission of a research report.
2. The project will be conducted on an unanswered question or on a problem/issue facing the staff in the field and needs a solution.
3. The project draws on a literature review on a general area of the research question, providing the background to understanding the issues associated with the research. The literature review also provides material suitable for the introduction/background of the research report.
4. The project can be focused on existing data, or may require the collection of new data, or can aim to develop a new test or method.
5. Each candidate will present a seminar/group discussion on the results of his/her project towards the end of the research project period.

1. Topics to be Covered

List of Topics	No. of Weeks	Contact hours
Research project	One semester (10-12 ws)	96

2. Course components (total contact and credit hours per semester):

		Lecture	Tutorial	Laboratory/ Studio	Practical	Other	Total
Contact Hours	Planned	-	-	-	96		96
	Actual	-	-	-	96		96

Credit	Planned	-	-	-	24		24
	Actual	-	-	-	24		24

3. Individual study/learning hours expected for students per week. NA

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategies

On the table below are the five NQF Learning Domains, numbered in the left column.

First, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table). **Second**, insert supporting teaching strategies that fit and align with the assessment methods and targeted learning outcomes. **Third**, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy should fit in together with the rest to form an integrated learning and teaching process. (Courses are not required to include learning outcomes from each domain.)

Curriculum Map

Code #	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
1.0	**Knowledge**		
1.1	------	Research project progressing	weekly or monthly research report
2.0	**Cognitive Skills**		
2.1	1. The candidate should be able to conduct an original and independent research, including both practical and theoretical components, on a hot topic in clinical toxicology 2. The candidate should be able to develop skills in formulating testable hypotheses.	Research project progressing	weekly or monthly research report
3.0	**Interpersonal Skills & Responsibility** The student will develop and tune skills in time management		
4.0	**Communication, Information Technology, Numerical** The candidate should be able to collect data and perform data analysis using different computer programs.		
5.0	**Psychomotor(if any)**		
5.1	The candidate should be able to develop many skills in dealing with toxicity conditions	Research project progressing	weekly or monthly research report

5. Assessment Task Schedule for Students During the Semester

	Assessment task (i.e., essay, test, quizzes, group project, examination, speech, oral presentation, etc.)	Week Due	Proportion of Total Assessment
1	Research supervisor Research report	1-10 1-10	50% 50%

D. Student Academic Counseling and Support

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic counseling. (include the time teaching staff are expected to be available per week) A- The college has academic supervision program and applies this to all students of the college B-There are office hours of four hours per week for all faculty members in the department and there is a list that sets the times of these office hours for each member on the door of his office C- A list of all faculty members in the department and before each mobile number and e-mail address in the handbook, which is delivered to all students as they begin their program.

E-Learning Resources

1. List Required Textbooks
2. List Essential References Materials (Journals, Reports, etc.)
3. List Electronic Materials, Web Sites, Facebook, Twitter, etc.
4. Other learning material such as computer-based programs/CD, professional standards or regulations and software.

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access,etc.)
1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.) Two classrooms with 15 seats each & Two laboratories for 15 students each •
2. Technology resources (AV, data show, Smart Board, software, etc.) All class rooms and laboratories are equipped with data show projectors and wall white boards
3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list) Pharmacology and toxicology department well equipped with basic and advanced facilities needed for the candidates teaching, training and research. Emergency departments at governmental and private hospitals in Makkah and Toxicity centers in Makkah are available to conduct the most steps of research project.

G Course Evaluation and Improvement Procedures

1. Strategies for Obtaining Student's Feedback on Effectiveness of Teaching

Candidates will be able to evaluate the program by the end of the course via face contact, questionnaire or online evaluation forms.
2. Other Strategies for Evaluation of Teaching by the Instructor or the Department The developing and quality control committee of the department will conduct a systematic evaluation for the course procedures by monitoring the quality of teaching materials, exams and students' performance and their feedback.
3. Procedures for Teaching Development The developing and quality control committee of the department will encourage the professional faculty staff from our faculty or/and other toxicology centers to share and collaborate in teaching, training and organizing specialized workshops to improve the quality of teaching processes.
4. Procedures for Verifying Standards of Student's Achievement (e.g. check marking by an independent member teaching staff of a sample of student's work, periodic exchange and remarking of tests or a sample of assignments with staff members at another institution) The developing and quality control committee of the department will carry out periodical check up on all steps of program to verify the students' accomplishments.
5. Describe the planning arrangements for periodically reviewing course effectiveness and planning for developing it. The developing and quality control committee of the department will perform a continuous evaluation and updating the program annually.

Name of Course Instructor: pharmacology & toxicology department staff

Signature: _____ Date Completed: _____

Program Coordinator: Prof. Saeed S. Alghamdi

Signature: _____ Date Received: _____