### Republic of Yemen

Ministry of Higher Education & Scientific Research
Emirates International University



### **Faculty of Medicine and Health Science**

### Department of Clinical Pharmacy

Bachelor of Pharm D

Course Specification of Pharmacotherapy Module VI:

Endocrinology/Rheumatology/OB/GYN

Course No. (PP 506)

Prepared by:

Dr. Mogeeb Al-nahari

Reviewed by:

Dr. Mohammed

Al-Khawlane

Head of the Department:

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Quality Assurance head Dean:

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الجامعة الإماراتية الدولية
كلية الطب والعلوم الصحية
قسم الصيدلة السريرية _ دكتور صيدلي
المستوار المستوارين المستوار المستوار

I	I. Course Identification and General Information:						
1	Course Title:	Pharmacotherapy Module VI: Endocrinology/Rheumatology/OB/GYN			OB/GYN		
2	Course Code & Number:	PP 506					
		Credit Theor		Hours	Lab.		
3	Credit Hours:	Hours	Lecture	Exercise	Hours		
		2	2				
4	Study Level/ Semester at which this Course is offered:	5 Level / 1Semester					
5	Pre -Requisite (if any):	Pharma	cology III				
6	Co -Requisite (if any):	None					
7	Program (s) in which the Course is Offered:	Bachelor of Pharm D					
8	Language of Teaching the Course:	English					
9	Study System:	Semester based System					
10	Mode of Delivery:	Full Time					
11	Location of Teaching the Course:	Faculty of Medical scinces					
12	Prepared by:	Dr. Mogeeb Al-nahari					
13	Date of Approval:						

### **II. Course Description:**

The course content is complementary to pathophysiology and pharmacology courses and is supportive for pharmaceutical care and cases study courses. The course content aims to understand the knowledge of the pathophysiology, clinical manifestations, and therapeutics (clinical uses, pharmacokinetics, clinically significant side effects, drug interactions and contraindications to medications) of selected Endocrinology/Rheumatology/OB/GYN Disorders.



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### III. Course Intended Learning Outcomes (CILOs): (maximum 8)

Upon successful completion of the

#### **Referenced PILOs**

Learning out of program

	course, students will be able to:		earning out of program
	A. Knowledge and Understanding:	I, A or E	
a1	Define the clinical manifestations, pathophysiology, diagnosis, and complication of Endocrinology/Rheumatology/OB/GYN Disorders .Disorders/ .	I	A1
a2	List the target goals of treatment for Endocrinology/Rheumatology/OB/GYN Disorders . Disorders/.	Ι	A5, A8, A10
	B. Intellectual Skills:	hamma and a second and a second	
b1	Construct rational drugs therapy and monitoring plan for Endocrinology/Rheumatology/OB/GYN Disorders . Disorders / .	Е	B3, B7,B8,B9
	C. Professional and Practical Skills:		
c1	Use properly drug regimens and monitoring parameters to achieve targeted treatment goals of Endocrinology/Rheumatology/OB/GYN Disorders .Disorders/.	A	C5, C8
	D. Transferable Skills:		
d1	Search efficiently for required medical information from professional medical references and sites	Α	D5
d2	Communicate effectively with healthcare professionals and patients	Α	D1, D3  EMIRATES



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(a) Alignment Course Intended Learning Outcomes of Knowledge and Understanding to Teaching Strategies and Assessment Strategies:			
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies	
<b>a1-</b> Define the clinical manifestations, pathophysiology, diagnosis, and complication of Endocrinology/Rheumatology/OB/GYN Disorders .Disorders/ .	Discussions	Exam Assignment Quiz	
<b>a2-</b> List the target goals of treatment for Endocrinology/Rheumatology/OB/GYN Disorders .Disorders/ .	Lecture Discussions Office hour	Exam Assignment Quiz	

(b) Alignment Course Intended Learning Outcomes of Intellectual Skills to Teaching Strategies and Assessment Strategies:			
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies	
<b>b1-</b> Construct rational drugs therapy and monitoring plan for Endocrinology/Rheumatology/OB/GYN Disorders .Disorders/ .	Lecture Discussions Office hour	Exam Assignment Quiz	

(c) Alignment Course Intended Learning Outcomes of Professional and Practical Skills to Teaching Strategies and Assessment Strategies:				
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies		
<b>C1-</b> Use properly drug regimens and monitoring parameters to achieve targeted treatment goals of Endocrinology/Rheumatology/OB/GYN Disorders .Disorders/.	Discussions	Exam Assignment Quiz		

Course Intended Learning Outcomes	Teaching strategies Assessment Strategies
<b>d1-</b> Search efficiently for required medical information from professional medical references and sites	Self-Learning Presentation Seminar Assignment
<b>d2-</b> Communicate effectively with healthcare professionals and patients	Seminar Presentation  EMIRATES



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### **IV. Course Content:**

### A – Theoretical Aspect:

Orde r	Units/Topics List	Sub Topics List	Numb er of Week s	Conta ct Hours	Learning Outcome s
1	Introduction to endocrinology and hormonal regulation	Overview of endocrine system     Hormonal regulation and feedback mechanisms     Principles of endocrine disorders diagnosis and treatment	1	2	a 1, a 2, b1,c1,d 1,d2
2	Thyroid disorders	- Hypothyroidism and hyperthyroidism - Diagnosis and management of thyroid nodules - Thyroid hormone replacement therapy -	1	2	a 1, a 2, b1 .c1. d 1, d 2
3	Adrenal disorders	<ul><li>Adrenal insufficiency and adrenal crisis</li><li>Cushing's syndrome</li><li>Diagnosis and management of adrenal tumors</li></ul>	1	2	a 1, a 2, b1, ,c1, d
4	Diabetes mellitus	<ul> <li>Pathophysiology and classification of diabetes</li> <li>Diagnosis and monitoring of diabetes</li> <li>Management of hyperglycemia and hypoglycemia</li> </ul>	1	2	a 1, a 2, b1 .c1. d 1, d 2
5	Osteoporosis and metabolic bone disorders	<ul> <li>Pathophysiology and risk factors for osteoporosis</li> <li>Diagnosis and evaluation of osteoporosis</li> <li>Pharmacological and non-pharmacological management of osteoporosis</li> </ul>	1	2	a 1, a 2, b1,c1, d 1, d 2
6	Calcium and phosphorus disorders	<ul> <li>Hypocalcemia and hypercalcemia</li> <li>Hypophosphatemia and hyperphosphatemia</li> <li>Treatment of calcium and phosphorus imbalances</li> </ul>	1	2	a 1, a 2, b1,c1,d 1,d2
7		- Hypopituitarism - Acromegaly and gigantism - Prolactinoma - Treatment options for pituitary tumors -	1	2	a 1, a 2, b1,c1, d 1, d 2
8	Midterm		1		a 1, a 2, b1, ,c1, d
9	and infertility	- Polycystic ovary syndrome (PCOS) - Endometriosis - Infertility evaluation and treatment options -	1	ACCOUNT OF THE PARTY OF	a 1, a 2, b1, ,c1, d
10	hormone .	- Physiological changes during menopause - Symptoms and management of menopause - Benefits and risks of hormone replacement therapy	EMIL		a 1, a 2, b1, c1, d 1, d 2



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ystemic lupus ythematosus LE) and lupus phritis neumatologic nergencies  3/GYN armacotherap review	- Clinical presentation and diagnosis of SLE - Management of SLE flares and remission - Treatment options for lupus nephritis  - Septic arthritis and osteomyelitis - Rheumatologic emergencies in children (Kawasaki disease, juvenile idiopathic arthritis) - Management of rheumatologic emergencies  - Review of pharmacological management of common OB/GYN conditions (e.g., uterine fibroids, endometriosis, contraception)	1	2 2 32	a 1, a 2, b1, c1, d 1, d 2 a 1, a 2, b1, c1, d 1, d 2 a 1, a 2, b1, c1, d 1, d 2
ythematosus (LE) and lupus (phritis neumatologic nergencies  3/GYN armacotherap	- Clinical presentation and diagnosis of SLE - Management of SLE flares and remission - Treatment options for lupus nephritis  - Septic arthritis and osteomyelitis - Rheumatologic emergencies in children (Kawasaki disease, juvenile idiopathic arthritis) - Management of rheumatologic emergencies  - Review of pharmacological management of common OB/GYN conditions (e.g., uterine fibroids,	1	2	a 1, a 2, b1, c1, d 1, d 2 a 1, a 2, b1, c1, d 1, d 2 a 1, a 2, b1, c1, d
ythematosus LE) and lupus phritis	- Clinical presentation and diagnosis of SLE - Management of SLE flares and remission - Treatment options for lupus nephritis  - Septic arthritis and osteomyelitis - Rheumatologic emergencies in children (Kawasaki disease, juvenile idiopathic arthritis)			a 1, a 2, b1, c1, d 1, d 2 a 1, a 2, b1, c1, d
ythematosus LE) and lupus	- Clinical presentation and diagnosis of SLE - Management of SLE flares and remission	1	2	a 1, a 2, b1,c1, d
	gout			1, 02
steoarthritis ad gout	Pathophysiology and management of osteoarthritis     Gout diagnosis and treatment options     Lifestyle modifications and pharmacotherapy for gout	1	2	a 1, a 2, b1,c1, d
heumatoid thritis	Pathophysiology and clinical presentation of rheumatoid arthritis     Pharmacological management of rheumatoid arthritis     Monitoring and adverse effects of diseasemodifying antirheumatic drugs (DMARDs)	1	2	a 1, a 2, b1,c1, d 1. d 2
S	thritis	thritis  rheumatoid arthritis  - Pharmacological management of rheumatoid arthritis  - Monitoring and adverse effects of disease-modifying antirheumatic drugs (DMARDs)  -  steoarthritis d gout  - Pathophysiology and management of osteoarthritis - Gout diagnosis and treatment options - Lifestyle modifications and pharmacotherapy for	thritis  rheumatoid arthritis  - Pharmacological management of rheumatoid arthritis  - Monitoring and adverse effects of disease-modifying antirheumatic drugs (DMARDs)  -  teoarthritis  d gout  - Pathophysiology and management of osteoarthritis  - Gout diagnosis and treatment options  - Lifestyle modifications and pharmacotherapy for	thritis rheumatoid arthritis - Pharmacological management of rheumatoid arthritis - Monitoring and adverse effects of disease-modifying antirheumatic drugs (DMARDs) Pathophysiology and management of osteoarthritis d gout - Gout diagnosis and treatment options - Lifestyle modifications and pharmacotherapy for

В	. Case Studies and Practical Aspect:			
No.	Tasks/ Experiments	Week Due	Contact Hours	Learning Outcomes (CILOs)
1	NA			
2				
3	-			
4	-			
5	-			



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No.	Tasks/ Experiments	Week Due	Contact Hours	Learning Outcomes (CILOs)
6	-			
7	-			
8	-			
9				
10	-			
11	-			
12	-			
13	-			
14	-			
15	-			
16				
	Number of Weeks /and Units Per Semester			

No.	Tutorial	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1				
2	-			
3				
4				
5				
6		/.	1965 2019 2019	
7				
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No.	Tutorial	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
9				
10				
Number	of Weeks /and Units Per Semester			

V. Teaching Strategies of the Course:	
Lecture	
Discussion	
Presentation	
Office hours	
Seminar	
Assignment	
Self-Learning	

VI. Assessment Methods of the Co	urse:
Assignments	
Quiz	
Exam	

	VII. Assignments:			
No	Assignments	Aligned CILOs(symbols)	Week Due	Mark
1	Assignment 1: List the target goals of treatment for Endocrinology/Rheumatology/OB/GYN Disorders . Disorders / .	a 1, a 2, b1,c1, d 1, d 2	6th	5
		otal		5

VIII.	Schedule of Assessme	nt Tasks for S	Studen	its During the	Semester:
No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Learning Outcomes



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1	Assignments	6th,	5	10%	a 1, a 2, b1,c1, d 1, d 2
2	Quiz	6 <sup>th</sup>	5	5%	a 1, a 2, b1,c1, d 2
3	Midterm Exam	Week 8	20	20%	a 1, a 2, b1,c1, d 2
4	Final Exam	Week 16	70	70 %	a 1, a 2, b1,c1, d 2
	Total		100	100%	

### IX. Learning Resources:

• Written in the following order: (Author - Year of publication – Title – Edition – Place of publication – Publisher).

#### 1- Required Textbook(s) ( maximum two ).

- 1- Chisholm-Burns et al, 2015, Pharmacotherapy principles & practice. ed., 4<sup>th</sup> edition
- 2- Katzung, 2018. Basic & Clinical Pharmacology, ed., 14th edition.

#### 2- Essential References.

- 1 -DiPiro et al, 10th edition, 2017. Pharmacotherapy: A Pathophysiological Approach, ed edition.
- 2. Walker & Whittlesea, 5th edition, 2011. Clinical Pharmacy and Therapeutics, ed. Wall Whittlesea, 6th edition, 2018.

#### 3- Electronic Materials and Web Sites etc.

- 1 -www.accesspharmacy.com
- 2 -Disease management guidelines (specified in lecture notes)

	X. Course Policies: (Based on the Uniform Students' By law (2007)
1	Class Attendance: Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.
2	Tardiness:  A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
3	Exam Attendance/Punctuality:  No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.



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4	Assignments & Projects:  Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	Cheating:  Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
6	Forgery and Impersonation: Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
7	Other policies: The University official regulations in force will be strictly observed and students shall comply with all rules and regulations of the examination set by the Department, Faculty and University Administration.





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### **Faculty of Medicine and Health Science**

Department of Clinical Pharmacy

Bachelor of Pharm D

Course Plan (Syllabus) of Pharmacotherapy Module VI: Endocrinology/Rheumatology/OB/GYN

Course No. (PP 506)







I. Information about Faculty Member Responsible for the Course							se:
Name of Faculty Member: Office Hours							
Location& Telephone No.:							
E-mail:		SAT	SUN	MON	TUE	WED	THU

I	I. Course Identification and Gen	eral In	formati	on:	
1	Course Title:		cotherapy M	Iodule VI: umatology/C	DB/GYN
2	Course Code & Number:	PP 506			
		Credit	Hours	Lab.	
3	Credit Hours:	Hours	Lecture	Exercise	Hours
		2	2		100 000
4	Study Level/ Semester at which this Course is offered:	5 Level	/ 1Semester		
5	Pre -Requisite (if any):	Pharmad	cology III		
6	Co -Requisite (if any):	None			
7	Program (s) in which the Course is Offered:	Bachelo	r of Pharm I	D	
8	Language of Teaching the Course:	English			
9	Study System:	Semester based System			
10	Mode of Delivery:	Full Tim	ne /	11 (10 d) 10 (10 d)	\
11	Location of Teaching the Course:	Faculty	of Medical s	scinces	



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12	Prepared by:	Dr. Mogeeb Al-nahari
13	Date of Approval:	

#### **III. Course Description:**

The course content is complementary to pathophysiology and pharmacology courses and is supportive for pharmaceutical care and cases study courses. The course content aims to understand the knowledge of the pathophysiology, clinical manifestations, and therapeutics (clinical uses, pharmacokinetics, clinically significant side effects, drug interactions and contraindications to medications) of selected Endocrinology/Rheumatology/OB/GYN Disorders.

### IV. Course Intended Learning Outcomes (CILOs): Upon successful completion of the Course, student will be able to: A. Knowledge and Understanding: Define the clinical manifestations, pathophysiology, diagnosis, and complication of a1 Endocrinology/Rheumatology/OB/GYN Disorders . Disorders / . List the target goals of treatment for Endocrinology/Rheumatology/OB/GYN Disorders a2 .Disorders/ . B. Intellectual Skills: **b**1 Construct rational drugs therapy and monitoring plan for Endocrinology/Rheumatology/OB/GYN Disorders .Disorders/. C. Professional and Practical Skills: Use properly drug regimens and monitoring parameters to achieve targeted treatment goals c1 of Endocrinology/Rheumatology/OB/GYN Disorders . Disorders/. D. Transferable Skills: Search efficiently for required medical information from professional medical references d1 and sites Communicate effectively with healthcare professionals and patients d2

### V. Course Contents:

A. Theoretical Aspect:



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### VI. Course Content:

### A – Theoretical Aspect:

Orde r	Units/Topics List	Sub Topics List	Numb er of Week s	Conta ct Hours
1	Introduction to endocrinology and hormonal regulation	Overview of endocrine system     Hormonal regulation and feedback mechanisms     Principles of endocrine disorders diagnosis and treatment	1	2
2	Thyroid disorders	- Hypothyroidism and hyperthyroidism - Diagnosis and management of thyroid nodules - Thyroid hormone replacement therapy -	Ī	2
3	Adrenal disorders	Adrenal insufficiency and adrenal crisis     Cushing's syndrome     Diagnosis and management of adrenal tumors	1	2
4	Diabetes mellitus	<ul> <li>Pathophysiology and classification of diabetes</li> <li>Diagnosis and monitoring of diabetes</li> <li>Management of hyperglycemia and hypoglycemia</li> </ul>	1	2
5	Osteoporosis and metabolic bone disorders	<ul> <li>Pathophysiology and risk factors for osteoporosis</li> <li>Diagnosis and evaluation of osteoporosis</li> <li>Pharmacological and non-pharmacological management of osteoporosis</li> </ul>	1	2
6	Calcium and phosphorus disorders	- Hypocalcemia and hypercalcemia - Hypophosphatemia and hyperphosphatemia - Treatment of calcium and phosphorus imbalances	1	2
7	Pituitary disorders	<ul> <li>- Hypopituitarism</li> <li>- Acromegaly and gigantism</li> <li>- Prolactinoma</li> <li>- Treatment options for pituitary tumors</li> </ul>	1	2
8	Midterm	al .	1	2
9	Reproductive endocrinology and infertility	- Polycystic ovary syndrome (PCOS) - Endometriosis - Infertility evaluation and treatment options -	1	2
10	Menopause and hormone replacement therapy	Physiological changes during menopause     Symptoms and management of menopause     Benefits and risks of hormone replacement therapy	130	MIRA TERNAT



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umbe	r of Weeks /and	Units Per Semester		16
16	Final Exam		1	32
15	OB/GYN pharmacotherap y review	- Review of pharmacological management of common OB/GYN conditions (e.g., uterine fibroids, endometriosis, contraception)	1	2
14	Rheumatologic emergencies	- Septic arthritis and osteomyelitis - Rheumatologic emergencies in children (Kawasaki disease, juvenile idiopathic arthritis) - Management of rheumatologic emergencies	1	2
13	Systemic lupus erythematosus (SLE) and lupus nephritis	- Clinical presentation and diagnosis of SLE - Management of SLE flares and remission - Treatment options for lupus nephritis	1	2
12	Osteoarthritis and gout	Pathophysiology and management of osteoarthritis     Gout diagnosis and treatment options     Lifestyle modifications and pharmacotherapy for gout	1	2
11	Rheumatoid arthritis	Pathophysiology and clinical presentation of rheumatoid arthritis     Pharmacological management of rheumatoid arthritis     Monitoring and adverse effects of disease-modifying antirheumatic drugs (DMARDs)	1	2

No.	Tasks/ Experiments	Week Due	Contact Hours
1	NA		
2			
3			
4			
5			
6			
7	/ ·		
8	See		



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No.	Tasks/ Experiments		Week Due	Contac Hours
9				
10				
11				
12				
13				
14				
15				
16				
	Number of Weeks /and Units Per Semester			
No.	Tasks/ Experiments		Week Due	Contac Hours
1	NA.			
		- 1		
2				
3	-			
	-			
3				
3	_			
3 4 5	-			
3 4 5 6	-			
3 4 5 6 7	- - -			
3 4 5 6 7 8	- - -			



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No.	Tasks/ Experiments	Week Due	Contact Hours
12	-		
13	-		
14	-		
15	-		
16			
	Number of Weeks /and Units Per Semester		

No.	Tutorial	Number of Weeks	Contac Hours
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

VI. Teaching Strategies of the Course:	allo 7
Lecture	
Discussion	
Presentation	
Office hours	EMIRATES ·
Seminar	UNIVERSITY



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Assignment	
Self-Learning	y

### VII. Assessment Methods of the Course:

Assignments

Quiz

Exam

VIII. Assignments:				
No	Assignments	Week Due	Mark	
1	Assignment 1: List the target goals of treatment for Endocrinology/Rheumatology/OB/GYN Disorders .Disorders/.	6th	5	
	Total		5	

5	5%
	370
5	5%
20	20%
0	70 %
	-

### X. Learning Resources:

### X. Learning Resources:

• Written in the following order: (Author - Year of publication – Title – Edition – Publisher).

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1- Required Textbo	k(s) ( maximum two ).
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- 3- Chisholm-Burns et al, 2015, Pharmacotherapy principles & practice. ed., 4<sup>th</sup> edition
- 4- Katzung, 2018. Basic & Clinical Pharmacology, ed., 14th edition.

#### 2- Essential References.

- 1 -DiPiro et al, 10th edition, 2017. Pharmacotherapy: A Pathophysiological Approach, ed edition.
- 2. Walker & Whittlesea, 5th edition, 2011. Clinical Pharmacy and Therapeutics, ed. Wall Whittlesea, 6th edition, 2018.

#### 3- Electronic Materials and Web Sites etc.

- 1 -www.accesspharmacy.com
- 2 -Disease management guidelines (specified in lecture notes)

XI.	Course Policies: (Based on the Uniform Students' Bylaw (2007)	
1	Class Attendance: Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.	
2	<b>Tardiness:</b> A student will be considered late if he/she is not in class after 10 minutes of the start time of class.	
3	Exam Attendance/Punctuality:  No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.	
4	Assignments & Projects:  Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.	
5	Cheating: Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.	
6	Forgery and Impersonation:  Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.	
7	Other policies:  The University official regulations in force will be strictly observed and students shall comply with all rules and regulations of the examination set by the Department, Faculty and University Administration.	