Republic of Yemen

Ministry of Higher Education & Scientific Research
Emirates International University



Faculty of Medicine & Health Sciences

Department of Medicine

Program of Bachelor of Medicine

Course Specification of

Medical Physics

Course No. ()

Review committee:

Head of the Department

Quality Assurance head

Dean of Faculty



الجامعة الإماراتية الدولية كلية الطب والعلوم الصحية قسم طب وجراحة الفم الأسنان

1	Course Title:	Medical	Physics		
2	Course Code & Number:				
		Credit	Theory	Hours	Lab.
3	Credit Hours:	Hours	Lecture	Exercise	Hours
		3	2		2
4	Study Level/ Semester at which this Course is offered:	Level 1 / 1 ST Semester			
5	Pre –Requisite (if any):	Nil			
6	Co -Requisite (if any):				
7	Program (s) in which the Course is Offered:	Bachelor of Pharm D			
8	Language of Teaching the Course:	English			
9	Study System:	Semester			
10	Mode of Delivery:	Full Time			
11	Location of Teaching the Course:	Faculty of Medicine & Health Sciences			
12	Prepared by:	Dr. Issam AL-Kahtani			

II. Course Description:

The course aims to introduce basic concepts and principles of physics; they clarify the relation between physics and medical & health sciences. Topics covered will include measurements, energy, work and power in our bodies, periodic motion, wave motion, medical applications of electromagnetic spectrum, sound waves, medical applications of ultrasound, fluid mechanics, pressure, blood pressure, viscosity, surface tension, temperature and heat in medicine.

This course focus to applications of physics in medical & health.

The practical part includes measurements, density, viscosity, temperature scales, specific heat of materials, hock's law, lenses and sound speed.



الجامعة الإماراتية الدولية كلية الطب والعلوم الصحية

قسم طب وجراحة الفم الأسنان

	III. Course Intended Learning Outcomes (CILOs): Upon successful completion of the course, students will be able to:	Referenced PILOs		Referenced PILOs	
2	A. Knowledge and Understanding:				
a1	Identify the fundamentals of physics and related with medical sciences.				
a2	Describe the importance of physics in medicine.		A1 A2		
a3	Explain the diagnostic and therapeutic applications of physics in medicine.		A3 A4		
a4	Specify the kinds of influence of the electromagnetic spectrum ranges on people's health.				
	B. Intellectual Skills:				
b1	Apply the acquired physically technical theoretical knowledge in their work during practical classes.		D1		
b2	Evaluate physical (both natural and technological) phenomena, their effect on the human body and their application in medical diagnostics.		B1 B2		
	C. Professional and Practical Skills:				
c1	Perform the conversion operations of the units he needs in his studies.		C1		
c2	Solve the various exercises for this course Correctly.		C2		
	D. Transferable Skills:				
d1	Design and complete independent research projects.		D1 Carlou		
d2	Communicate effectively, both orally		D2		

Rage 3



الجامعة الإماراتية الدولية كلية الطب والعلوم الصحية قسم طب وجراحة الفم الأسنان

and in writing, with colleagues, faculty, scientific journals, and research funding agencies.

	Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
a1	Identify the fundamentals of physics and related with medical sciences.	LecturesSeminarsDiscussion	- Quizzes - Mid-term Exam - Final Written Exam
a2	Describe the importance of physics in medicine.	- Lectures - Seminars - Discussion	- Quizzes - Mid-term Exam - Final Written Exam
a3	Explain the diagnostic and therapeutic applications of physics in medicine.	- Lectures - Seminars - Discussion	- Quizzes - Mid-term Exam - Final Written Exam
a4	Name and evaluate kinds of influence of the electromagnetic spectrum ranges on people's health.	LecturesSeminarsDiscussion	- Quizzes - Mid-term Exam - Final Written Exam
	(B) Alignment of Course Intende Strategies and Assessment Metho		tual Skills) to Teaching
	Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
o1	Apply the acquired physically technical theoretical knowledge in their work during practical classes.	- Lectures - Seminars - Discussion	- Quizzes - Mid-term Exam - Final Written Exam
b2	Evaluate physical (both natural and technological)	- Lectures - Seminars	- Quizzes



الفه المورث المورث المورث الموادية الم

الجامعة الإماراتية الدولية كلية الطب والعلوم الصحية قسم طب وجراحة القم الأسنان

	phenomena, their effect on the human body and their application in medical diagnostics	- Discussion	- Final Written Exam
	(C) Alignment of Course Intendent Skills) to Teaching Strategies an		sional and Practical
	Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
c1	Perform the conversion operations of the units he needs in his studies.	Lectures.Lab ExperimentsGroup learning andProblem-basedlearning,	 laboratory and other written reports Quizzes Final Practical Exam
c2	- Solve the various exercises for this course Correctly.	Lectures.Lab ExperimentsGroup learning andProblem-basedlearning,	 laboratory and other written reports Quizzes Final Practical Exam
	(D) Alignment of Course Intend Strategies and Assessment Meth		sferable Skills) to Teaching
	Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
d1	Design and complete independent research projects.	DiscussionSelf LearningSeminars	Discussion.Group work
d2	Communicate effectively, both orally and in writing, with colleagues, faculty, scientific journals, and research funding agencies.	DiscussionSelf LearningSeminars	Discussion.Group work

IV. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	Introduction	 Physical science Relation between medical sciences and physical science. 	1	2	alian as

Republic of Yemen Emirates Ir Faculty of Med Clinical Pharm



0	Units/Tonics List	Sub Tonics List	Number	Contact	Lear	
dicine & Health Sciences. macy Department -Pharm D				كلية الطب والعلوم الصد قسم طب وجراحة الفم الأس		
Inter	national University	مدوسه	ولية	<i>عة الإماراتية الد</i>	الجامه	

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
		Medical physics			
2	Measurements & physical quantities	 Measurements Measurement systems Physical quantities Basic quantities Derived quantities Conversions Exercises 	2	4	a1,a2,c1 c2
3	Work, Power & Energy in Our Bodies	 Work Work types Work of human heart Power of human heart Energy Types of energy Food energy Conversions 	2	4	a1,c1,c2
4	Waves & Electromagnetic Spectrum	 Periodic motion Wave motion Electromagnetic spectrum (x-rays, ultraviolet, etc.) Medical applications of electromagnetic spectrum (radiotherapy) Laser rays in medicine Sound waves Ultrasound in medicine Description of waves Exercises 	3	6	a2,a4,b1 b2,d1
5	Mid-Term Theoretical Exam		1	2	



الفكورية الينيتة

الجامعة الإماراتية الدولية كلية الطب والعلوم الصحية قسم طب وجراحة الفم الأسنان

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
6	Fluids Mechanic & Applications	 Fluids States of matter Fluid properties Density, specific gravity Exercises Pressure Pressure in fluids Blood pressure Atmospheric pressure Absolute and gauge pressure Conversions of pressure Pascal's law Principle of Archimedes Surface tension Viscosity Stock's law Exercises 	3	6	a1,b1, c2, d1
7	Temperature and heat in medicine	 Temperature Temperature Measurement Devices Temperature scales Conversions of temperature Thermograph-mapping the body's temperature Heat Specific heat capacity Heat therapy 	3	6	a1,a2,a3 b1,b2
12	Final Exam		1	2	
	Number of Wee	eks /and Units Per Semester	16	32	/

B. Case Studies and Practical Aspect:				
No.	Tasks/ Experiments	Week Due	Contact Hours	Control of the contro
1	Measurements	1,2,3	6	b) 200%



No.	Tasks/ Experiments	Week Due	Contact Hours	Learning Outcomes (CILOs)
2	Calculation of materials density	4	2	b1, c1, c2
3	Hock's law	5	2	a1,b1
4	Measured wavelength, frequency and energy of rays	6	2	b1, c1, c2
5	Surface tension	7	2	b1, c1, c2
6	Mid-Term Practical Exam	8	2	
7	Viscosity	9	2	b1
8	Atmospheric pressure	10	2	b1, c1, c
9	Optics	11,12	4	b1,c1, c2 d1
10	Specific heat	13	2	b1,b2, c
11	Revision	14	2	
14	Final Practical Exam	15	2	
	Number of Weeks /and Units Per Semester	15	30	

700 4 1	A
Tutorial	A snect

No.	Tutorial	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	IntroductionGraphsExperimental errorsError percentage	1	2	a1,d1
2	Measurement tools	2	4	b1, c1, c2
3	Measured of gravity acceleration	1	2	b1, c1, c2
4	Calculation of materials density	1	2	b1, c





الجامعة الإماراتية الدولية كلية الطب والعلوم الصحية قسم طب وجراحة القم الأسنان

No.	Tutorial	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
5	Hock's law	1	2	b1, d1, c2
6	Measured wavelength, frequency and energy of rays	1	2	a4, b1, b2, c1
6	Mid-Term Practical Exam	1	2	
7	Viscosity	1	2	b1, c1, c2
8	Atmospheric pressure	1	2	b1, c1, c2
9	Lenses, mirrors Reflection, refraction	2	4	b1, c1, c2,d1
10	Specific heat	1	2	b1, c1, c2
11	Revision	- 1	2	
14	Final Practical Exam	1	2	
N	Jumber of Weeks /and Units Per Semester	15	30	

V. Teaching Strategies of the Course:

- Interactive lectures,
- Lectures
- Presentation
- Discussion
- Self-learning
- Lab Experiments

_

VI. Assessment Methods of the Course:

Quizzes

- -Midterm Exam
- -Final Written Exam
- -Final Practical Exam
- -laboratory and other written report





الجامعة الإماراتية الدولية كلية الطب والعلوم الصحية قسم طب وجراحة الفع الأسنان

-Discussion.

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
1	Assignment 1: Collect ten types of food and determine the energy of each type.	6	10	a2, c2, d1
2	Assignment 2: Prepare a short report on applications of electromagnetic waves in medicine.	10	10	a2, b1, c2, d1
3	Assignment 3: Write a report on heat therapy.	13	10	d1, d2
	Total		30	

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Assignments	6, 10, 13	5	5%	a2, b1, c2, d1, d2
2	Quizzes 1 & 2	6, 12	5	5%	a1, a2, b1
3	Mid-Term Theoretical Exam	8	20	20%	a1, a2, b1
4	Mid-Term Practical Exam	9	10	10%	b1, b2, c1, c2, d1, d2
5	Final Practical Exam	15	10	10%	b2, c1, d1, d2
6	Final Theoretical Exam	16	50	50%	a1, a2, b1, b2
	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- Brown, Brian H., et al. Medical physics and biomedical engineering. Taylor & 2017.





2- Maqbool, Muhammad, ed. An introduction to medical physics. Springer, 2017.

2- Essential References:

- 1- Serway, Raymond A., and John W. Jewett. *Physics for scientists and engineers with modern physics*. Cengage learning, 2018.
- 2- Decher, Reiner. *Energy conversion: Systems, flow physics and engineering.* No. BOOK. New York: Oxford university press, 1994.
- 3- Podgoršak, Ervin B. "Radiation physics for medical physicists." (2006).
- 4- Halliday, David, Robert Resnick, and Jearl Walker. *Fundamentals of physics*. John Wiley & Sons, 2013.
- 5- Manickavasagan, Annamalai, and Hemantha Jayasuriya, eds. *Imaging with electromagnetic spectrum: applications in food and agriculture*. Springer, 2014.
- 6- Truesdell, Clifford, and Kumbakonam Ramamani Rajagopal. *An introduction to the mechanics of fluids*. Springer Science & Business Media, 2010.
- 7- Huilgol, Raja R., and N. Phan-Thien. *Fluid mechanics of viscoplasticity*. Berlin: Springer, 2015.

3- Electronic Materials and Web Sites etc.:

- 1- http://hyperphysics.phy-astr.gsu.edu
- 2- https://ocw.mit.edu
- 3- https://www.iop.org
- 4- https://www.physicsforums.com/
- 5- http://www.schoolarabia.net
- 6- https://link.springer.com
- 7- https://www.efomp.org

X. Course Policies: (Based on the Uniform Students' By law (2007)

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:

1





	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.





المحامورية اليمين المحامية الإماراتية الدولية كلية الطب والعلوم الصحية قسم طب وجراحة الفم الأسنان

Faculty of Medicine & Health Sciences

Department of Medicine

Program of Bachelor of Medicine

Course Plan (Syllabus) of Medical Physics

Course No. PHYSC 113

I. Information abou	t Faculty Member Resp	ons	ible	for t	the Course:
Name of Faculty Member:	Dr. Issam AL-Kahtani		(Office	Hours
Location& Telephone No.:	Sana'a & 771960069				
E-mail:	Ahmedissam09@gmail.com	SAT	SUN	MON	TUE HU



1	Course Title:	Medical	Physics		
2	Course Code & Number:				
		Credit	Theory	Hours	Lab.
3	Credit Hours:	Hours	Lecture	Exercise	Hours
		3	2		2
4	Study Level/ Semester at which this Course is offered:	Level 1 / 1ST Semester			
5	Pre -Requisite (if any):	Nil			
6	Co -Requisite (if any):				
7	Program (s) in which the Course is Offered:	Bachelor of Pharm D			
8	Language of Teaching the Course:	English			
9	Study System:	Semeste	er		
10	Mode of Delivery:	Full Tir	ne		
11	Location of Teaching the Course:	Faculty	of Medicin	e & Health S	ciences
12	Prepared by:	Dr. Issa	m AL-Kaht	ani	

III. Course Description:

The course aims to introduce basic concepts and principles of physics; they clarify the relation between physics and medical & health sciences. Topics covered will include measured at energy, work and power in our bodies, periodic motion, wave motion, medical applications of ultrasound, fluid mediants.



الجامعة الإماراتية الدولية كلية الطب والعلوم الصحية قسم طب وجراحة الفم الأسنان

pressure, blood pressure, viscosity, surface tension, temperature and heat in medicine.

This course focus to applications of physics in medical & health.

The practical part includes measurements, density, viscosity, temperature scales, specific heat of materials, hock's law, lenses and sound speed.

IV. Course Intended Learning Outcomes (CILOs): Upon successful completion of the Course, student will be able to: A. Knowledge and Understanding: a1 Identify the fundamentals of physics and related with medical sciences. Describe the importance of physics in medicine. a2 Explain the diagnostic and therapeutic applications of physics in medicine. a3 Specify the kinds of influence of the electromagnetic spectrum ranges on people's health. a4 **B. Intellectual Skills:** Apply the acquired physically technical theoretical knowledge in their work during b1 practical classes. Evaluate physical (both natural and technological) phenomena, their effect on the human b2 body and their application in medical diagnostics. C. Professional and Practical Skills: Perform the conversion operations of the units he needs in his studies. c1 c2 Solve the various exercises for this course Correctly. D. Transferable Skills: Design and complete independent research projects. d1 Communicate effectively, both orally and in writing, with colleagues, faculty, scientific d2 journals, and research funding agencies.

A	Theoretical Aspect:			
No.	Units/Topics List	Sub Topics List	Number of Weeks	Wildle Street





كلية الطب والعلوم الصحية قسم طب وجراحة الفم الأسنان

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
1	Introduction	 Physical science Relation between medical sciences and physical science. Medical physics 	1	2
2	Measurements & physical quantities	 Measurements Measurement systems Physical quantities Basic quantities Derived quantities Conversions Exercises 	2	4
3	Work, Power & Energy in Our Bodies	 Work Work types Work of human heart Power of human heart Energy Types of energy Food energy Conversions 	2	4
4	Waves & Electromagnetic Spectrum	 Periodic motion Wave motion Electromagnetic spectrum (x-rays, ultraviolet, etc.) Medical applications of electromagnetic spectrum (radiotherapy) Laser rays in medicine Sound waves Ultrasound in medicine Description of waves Exercises 	3	6 Colored Colo
5	Mid-Term		1	



الجامعة الإماراتية الدولية كلية الطب والعلوم الصحية قسم طب وجراحة الفم الأسنان

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
	Theoretical Exam			
6	Fluids Mechanic & Applications	 Fluids States of matter Fluid properties Density, specific gravity Exercises Pressure Pressure in fluids Blood pressure Atmospheric pressure Absolute and gauge pressure Conversions of pressure Pascal's law Principle of Archimedes Surface tension Viscosity Stock's law Exercises 	3	6
7	Temperature and heat in medicine	 Temperature Temperature Measurement Devices Temperature scales Conversions of temperature Thermograph-mapping the body's temperature Heat Specific heat capacity Heat therapy 	3	6
12	Final Exam		1	2
	Number of W	eeks /and Units Per Semester	16	32

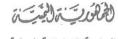
No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact	
1	Introduction	 Physical science Relation between medical sciences and physical science. 		aulytoul autgazi 24-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-	



الجامعة الإماراتية الدولية كلية الطب والعلوم الصحية قسم طب وجراحة الفم الأسنان

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
		Medical physics		
2	Measurements & physical quantities	 Measurements Measurement systems Physical quantities Basic quantities Derived quantities Conversions Exercises 	2	4
3	Work, Power & Energy in Our Bodies	 Work Work types Work of human heart Power of human heart Energy Types of energy Food energy Conversions 	2	4
4	Waves & Electromagnetic Spectrum	 Periodic motion Wave motion Electromagnetic spectrum (x-rays, ultraviolet, etc.) Medical applications of electromagnetic spectrum (radiotherapy) Laser rays in medicine Sound waves Ultrasound in medicine Description of waves Exercises 	3	6
5	Mid-Term Theoretical Exam		1	2
6	Fluids Mechanic & Applications	FluidsStates of matter	3	SUID COLOR





الجامعة الإماراتية الدولية كلية الطب والعلوم الصحية قسم طب وجراحة القم الأسنان

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contac Hours
		- Fluid properties		
		 Density, specific gravity 		
		- Exercises		
		- Pressure		
		Pressure in fluids		
		- Blood pressure		
		Atmospheric pressure		
		Absolute and gauge pressure		
		Conversions of pressure		
		- Pascal's law		
		Principle of Archimedes		
		- Surface tension		
		- Viscosity		
		- Stock's law		
		- Exercises		
		- Temperature		
		- Temperature Measurement Devices		
		- Temperature scales		
		Conversions of temperature		
7	Temperature and	Thermograph-mapping the body's	3	6
	heat in medicine	temperature		
		– Heat		
		Specific heat capacity		
		- Heat therapy		
12	Final Exam		1	2
		eeks /and Units Per Semester	16	32

В.	Case	Studies	and	Practical	Aspect:	
----	------	----------------	-----	------------------	---------	--

No.	Tasks/ Experiments	Week Due	Contact Hours
1	Measurements	1,2,3	6
2	Calculation of materials density	4	2





الجامعة الإماراتية الدولية كلية الطب والعلوم الصحية قسم طب وجراحة الفم الأسنان

No.	Tasks/ Experiments	Week Due	Contact Hours
11	Revision	14	2
14	Final Practical Exam	15	2
	Number of Weeks /and Units Per Semester	15	30

C. Tutorial Aspect:

No.	Tutorial			Number of Weeks	Contact Hours	
1	- Introduction - Graphs - Experimental errors - Error percentage		1	2		
2	Measurement tools			2	4	
3	Measured of gravity acceleration			1	2	
4	Calculation of materials density		23	1	2	
5	Hock's law			1	2	
6	Measured wavelength, frequency and energy	of rays		1	2	
6	Mid-Term Practical Exam			1	2	
7	Viscosity			1	2	
8	Atmospheric pressure			1	2	
9	Lenses, mirrors Reflection, refraction			2	4	
	10			Specific heat	1	2
11	Revision	1	2		8	
14	Final Practical Exam	1	2	1	-	
N	umber of Weeks /and Units Per Semester	15	30	1	TO SE	

VI. Teaching Strategies of the Course:





- Interactive lectures,
- Lectures
- Presentation
- Discussion
- Self-learning
- Lab Experiments

_

VII. Assessment Methods of the Course:

- Quizzes
- -Midterm Exam
- Final Written Exam
- Final Practical Exam
- - laboratory and other written report
- Discussion.

VIII. Assignments:

No.	Assignments	Week Due	Mark
1	Assignment 1: Collect ten types of food and determine the energy of each type.	6	10
2	Assignment 2: Prepare a short report on applications of electromagnetic waves in medicine.	10	10
3	Assignment 3: Write a report on heat therapy.	13	10
	Total		30

IX. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment
1	Assignments	6, 10, 13	5	5%
2	Quizzes 1 & 2	6, 12	5	59%
3	Mid-Term Theoretical Exam	8	20	20%



الجامعة الإماراتية الدولية كلية الطب والعلوم الصحية قسم طب وجراحة الفم الأسنان

electromagnetic spectrum: applications in food and agriculture. Springer, 2014.

- 6- Truesdell, Clifford, and Kumbakonam Ramamani Rajagopal. *An introduction to the mechanics of fluids*. Springer Science & Business Media, 2010.
- 7- Huilgol, Raja R., and N. Phan-Thien. *Fluid mechanics of viscoplasticity*. Berlin: Springer, 2015.

3- Electronic Materials and Web Sites etc.:

- 1- http://hyperphysics.phy-astr.gsu.edu
- 2- https://ocw.mit.edu
- 3- https://www.iop.org
- 4- https://www.physicsforums.com/
- 5- http://www.schoolarabia.net
- 6- https://link.springer.com
- 7- https://www.efomp.org



XI. Course Policies: (Based on the Uniform Students' Bylaw (2007)

Class Attendance:

1

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.



الجامعة الإماراتية الدولية كلية الطب والعلوم الصحية قسم طب وجراحة الفم الأسنان

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.
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.

A C

SH

EMIRATES EMIRATES EMIRATES INTERNATIONAL