

# Republic of Yemen

Ministry of Higher Education & Scientific Research

21 SEPTEMBER UNIVERSITY of MEDICALS & APPLIED  
SCIENCES



## Faculty of Medicine

Department of Pediatrics

Bachelor Program of Medicine and Surgery

## Course Specification of

Pediatrics Block I

**Block Code.** (A21P412)

**(2<sup>nd</sup> Course)**

**2023**



T4: This Template is Developed and Approved by CAQA-Yemen, 2023

Prepared by:	Reviewed by:	Head of department	Quality Unit:	Dean of Medicine Faculty	Center of Development and Quality Assurance Dean
Dr. Nora Nor-aldeen	Dr. Ahmed Hudna	Dr. Nora Noraldeen	Dr. Fadhl Shujaa Al-deen	Dr. Salwa Al-Ghomeri	

## I. General Information:

1.	Course Title:	Pediatrics Block I- (2 <sup>nd</sup> Course)				
2.	Block Code:	A21P412				
3.	Credit Hours:	Credit Hours	Theory Contact Hours		Practical Contact Hours	
			Lecture	Tutorial/ Seminar	Lab	Clinical
		4	2	--	--	6
4.	Level/ Semester at which this Course is offered:	4 <sup>th</sup> Level / 1 <sup>st</sup> Semester				
5.	Pre –Requisite (if any):	Pediatrics Block I – (1 <sup>st</sup> Course)				
6.	Co –Requisite (if any):	None				
7.	Program (s) in which the Course is Offered:	Bachelor of Medicine and Surgery				
8.	Language of Teaching the Course:	English				
9.	Location of Teaching the Course:	Faculty of Medicine				
10.	Prepared by:	Dr. Nora Nor-aldeen				
11	Date and Number of Approval by Council:	2023				

## II. Course Description:

This course aims to provide an essential information about the general disease of gastrointestinal, cardiological, hematological systems and nutritional disorders in pediatrics. Common diseases of this systems will be described during this course, using different method such as lectures, group discussion, seminars, practical session, case study and presentation. Assignment, Practical and theoretical exams will be used as assessment tools of this course.

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III. Course Intended Learning Outcomes (CILOs): Upon successful completion of the course, students will be able to:		Referenced PILOs		
<b>A. Knowledge and Understanding:</b>		*I, P or M/A		
a1	Explain pediatrics gastrointestinal, cardiological, hematological systems and nutritional disorders and the principles of management of those disorders	I	A3	Explain the pathological and pathogenesis changes in various diseases, and their etiological triggers including genetic, developmental, infectious, metabolic, endocrinal, autoimmune, neoplastic, traumatic, degenerative and occupational factors.
<b>B. Intellectual Skills:</b>				
b1	Differentiate between healthy and pathological state of pediatrics gastrointestinal, cardiological, hematological systems and their management	P	B1	Compare between normal and abnormal conditions and predict the appropriate treatment or intervention.
b2	Use the clinical history, examination and investigation to put a diagnostic and therapeutic plan of different common pediatric diseases	P	B2	Analyze and interpret the finding from history, clinical examination and investigations to propose a diagnosis and develop a shared management plan for common acute, chronic and urgent physical and mental health presentations.
<b>C. Professional and Practical Skills:</b>				
c1	Perform a complete clinical history and examination and mention the appropriate diagnostic tools of common pediatric	P	C1	Perform complete clinical examination and precise investigations to reach the final

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	diseases.			diagnosis
c2	Prescribe the appropriate drugs for the main pediatric diseases with the adequate knowledge of pharmacological proprieties of drugs	P	C2	Prescribe appropriate drugs taking in mind the benefits, side effects, interactions, safety and availability.
c3	Participate in the routine pediatric and infantile procedure and the diagnostic and therapeutic tools	P	C3	Carry out routine medical procedure and demonstrate the ability of using common medical tools required for diagnosis and management with highly qualified competency.
<b>D. Transferable Skills:</b>				
d1	Provide a clear medical communication with patients and their families about the medical status of the patients	P	D1	Communicate with professionals, patients, their families and the community through verbal, written and other non-verbal means.

\* I= Introduced, P=Practiced or M/A= Mastered/Advanced

<b>(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:</b>		
Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
a1 Explain pediatrics gastrointestinal, cardiological, hematological systems and nutritional disorders and the principles of management of those disorders	<ul style="list-style-type: none"> <li>• Lectures</li> <li>• Seminars</li> <li>• Discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Assignment</li> <li>• Final Written exam</li> </ul>
<b>(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:</b>		
Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies

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b1	Differentiate between healthy and pathological state of pediatrics gastrointestinal, cardiological, hematological systems and their management	<ul style="list-style-type: none"> <li>• Lectures</li> <li>• Seminars</li> <li>• Practical session</li> <li>• Discussion</li> <li>• Self-learning</li> </ul>	<ul style="list-style-type: none"> <li>• Final Written exam</li> <li>• Final Clinical exam</li> <li>• Long - Short OSCE</li> <li>• Assignment</li> </ul>
b2	Use the clinical history, examination and investigation to put a diagnostic and therapeutic plan of different common pediatric diseases	<ul style="list-style-type: none"> <li>• Lectures</li> <li>• Seminars</li> <li>• Practical session</li> <li>• Discussion</li> <li>▪ Self-learning</li> </ul>	<ul style="list-style-type: none"> <li>▪ Final Written exam</li> <li>▪ Final Clinical exam</li> <li>▪ Long - Short OSCE</li> <li>▪ Assignment</li> </ul>

**(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
c1	Perform a complete clinical history and examination and mention the appropriate diagnostic tools of common pediatric diseases.	<ul style="list-style-type: none"> <li>• Training</li> <li>• Practical session</li> <li>• Discussion</li> <li>▪ Case study</li> </ul>	<ul style="list-style-type: none"> <li>▪ Final Clinical exam</li> <li>▪ Long - Short OSCE</li> </ul>
c2	Prescribe the appropriate drugs for the main pediatric diseases with the adequate knowledge of pharmacological proprieties of drugs	<ul style="list-style-type: none"> <li>• Training</li> <li>• Practical session</li> <li>• Discussion</li> <li>▪ Case study</li> </ul>	<ul style="list-style-type: none"> <li>• Final Clinical exam</li> <li>• Long - Short OSCE</li> </ul>
c3	Participate in the routine pediatric and infantile procedure and the diagnostic and therapeutic tools	<ul style="list-style-type: none"> <li>• Training</li> <li>• Practical session</li> <li>• Discussion</li> <li>▪ Case study</li> </ul>	<ul style="list-style-type: none"> <li>• Final Clinical exam</li> <li>• Long - Short OSCE</li> </ul>

**(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies		
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d1	Provide a clear medical communication with patients and their families about the medical status of the patients	<ul style="list-style-type: none"> <li>• Practical session</li> <li>• Discussion</li> <li>• Presentation</li> <li>▪ Case study</li> </ul>	<ul style="list-style-type: none"> <li>▪ Oral Presentation</li> <li>▪ Homework</li> </ul>
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#### IV. Course Contents:

##### A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	<b>Nutrition</b>	- Normal daily requirements of water, macro- and micro-nutrients. - Vitamins (A, K, D, C, B complex), function, Deficiency and excess: causes, clinical pictures, diagnosis and treatment - Malnutrition (SAM)	4 <sup>th</sup> w	6h	a1, b1, b2,
2	<b>Gastroenterology</b>	<b>Acute gastroenteritis:</b> - Etiologies, Diagnosis and Managements <b>Dehydration:</b> diagnosis and management		4h	
3	<b>Malabsorption</b>	<b>Chronic diarrhea and malabsorption:</b> celiac disease, CF, lactose intolerance Clinical presentation, Diagnosis and management	5 <sup>th</sup> w	4h	a1, b1, b2
4	<b>Hepatitis</b>	<b>Hepatitis:</b> Acute and chronic, infectious and non-infectious, clinical presentation, Diagnosis and management		2h	
5	<b>Bleeding Disorder</b>	Definition, types, clinical manifestations, diagnosis and Management: ITP, HSP, hemophilia, WVD		4h	
6	<b>Anemias</b>	Definition, Types, clinical Manifestation, diagnosis and management: nutritional (iron deficiency anemia, folate and b12 deficiency), hemolytic (thalassemia, SCA, G6PD deficiency, spherocytosis, immune)	6 <sup>th</sup> w	6h	a1, b1, b2,
7	<b>Cardiology</b>	<b>Congenital Heart disease:</b> Acyanotic (VSD, ASD, PDA) & Cyanotic (TOF, TGA): types, dynamics, clinical presentation diagnosis and treatment <b>Infective endocarditis:</b> causes, clinical pictures, diagnosis and treatment <b>Acute rheumatic fever:</b> causes, clinical		4h	

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		presentations, diagnosis and treatment			
8	Final practical exam		7 <sup>th</sup> W	2h	b1, b2,c1, c2, c3
9	Final Written Exam		7 <sup>th</sup> W	2h	a1, b1, b2
<b>Number of Weeks /and Units Per Semester</b>			<b>4 w</b>	<b>34 h</b>	

### B. Practical Aspect (Lab/Clinical) (if any):

No.	Tasks/ Experiments	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	Nutritional assessment – examination of abdomen – management of dehydration and SAM	4 <sup>th</sup> w	30	b1, b2, c1, c2, c3, d1
2	Liver examination and abnormal clinical finding of common hepatic disease Bleeding disorders	5 <sup>th</sup> w	30	b1, b2, c1, c2, c3, d1
3	Cardiac and hematological history taking and physical examination	6 <sup>th</sup> w	18	b1, b2, c1, c2, c3, d1
<b>Number of Weeks /and Units Per Semester</b>		<b>3W</b>	<b>78</b>	

### C. Tutorial Aspect (if any):

No.	Tutorial	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	Plan of management of SAM	1 <sup>st</sup> w	2h	b1, b2, c1, c2, c3, d1
2	Plan of management of hemophilia	2 <sup>nd</sup> w	2h	b1, b2, c1, c2, c3, d1
3	Plan of management of thalassemia and Tet spell	3 <sup>rd</sup> w	2h	b1, b2, c1, c2, c3, d1
<b>Number of Weeks /and Units Per Semester</b>		<b>3W</b>	<b>6h</b>	

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## V. Teaching Strategies of the Course:

- Lectures
- Seminars
- Practical session
- Training
- Discussion
- Self-learning
- Presentation
- Case study

## VI. Assessment Methods of the Course:

- Final written exam
- Final Clinical exam
- Long - Short OSCE
- Oral Presentation
- Homework

## VII. Assignments:

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
1	<b>Assignment 1:</b> strategy of treating a case of dehydration and a case of celiac disease	4 <sup>th</sup> w	5	a1, b1, b2
2	<b>Assignment 2:</b> strategy of treating a case of sickle cell anemia	5 <sup>th</sup> w	5	a1, b1, b2
<b>Total</b>			<b>10</b>	

## VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
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No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Assignments	4 <sup>th</sup> -5 <sup>th</sup>	10	10%	a1,b1,b2
2	Homework & Oral Presentation	6 <sup>th</sup>	10	10%	d1
3	Final Clinical Exam	7 <sup>th</sup>	30	30%	b1, b2, c1, c2, c3
4	Final Written Exam & long-short-OSCE	7 <sup>th</sup>	50	50%	a1, b1, b2, c1, c2, c3
<b>Total</b>			<b>100</b>	<b>100%</b>	

## IX. Learning Resources:

### 1- Required Textbook(s):

- 1) Karen J. Marcdante, 2019, Nelson Essentials of Pediatrics, Eighth Edition, Elsevier
- 2) Robert M. Kliegman, 2020, Nelson Textbook of Pediatrics, 21<sup>st</sup> Edition, Elsevier

### 2- Essential References:

- 1- Keith Kleinman, 2021, The Harriet Lane Handbook, 22nd Edition, Elsevier
- 2- Albert J. Pomeranz, 2016, Pediatric Decision-Making Strategies, Second Edition, Saunders

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

- 1) <http://www.aap.com>
- 2) <http://www.medscape.com>

## 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.

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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	<b>Exam Attendance/Punctuality:</b> 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	<b>Assignments &amp; Projects:</b> Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	<b>Cheating:</b> 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	<b>Forgery and Impersonation:</b> 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	<b>Other policies:</b> 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

### Department of Pediatrics

#### Program of Bachelor of Medicine and Surgery

### Course Plan (Syllabus) of Pediatrics Block I

#### Block Code. (A21P412)

#### (2<sup>nd</sup> Course)

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

2023

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## II. Course Identification and General Information:

Course Title:	Pediatrics Block I- (2nd Course)				
Block Code:	A21P412				
Credit Hours:	Credit Hours	Theory Contact Hours		Practical Contact Hours	Clinical
		Lecture	Tutorial/Seminar	Lab	
		4	2	--	
Level/ Semester at which this Course is offered:	4th Level / 1st Semester				
Pre –Requisite (if any):	Pediatrics Block I – (1st Course)				
Co –Requisite (if any):	None				
Program (s) in which the Course is Offered:	Bachelor of Medicine and Surgery				
Language of Teaching the Course:	English				
Location of Teaching the Course:	Faculty of Medicine				
Prepared by:	Dr. Nora Nor-aldeen				
١١ Date and Number of Approval by Council:	2023				

## III. Course Description:

This course aims to provide an essential information about the general disease of gastrointestinal, cardiological, hematological systems and nutritional disorders in pediatrics. Common diseases of this systems will be described during this course, using different method such as lectures, group discussion, seminars, practical session, case study and presentation. Assignment, Practical and theoretical exams will be used as assessment tools of this course.

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#### IV. Course Intended Learning Outcomes (CILOs):

Upon successful completion of the Course, student will be able to:

	<b>A. Knowledge and Understanding:</b>
a1	Explain pediatrics gastrointestinal, cardiological, hematological systems and nutritional disorders and the principles of management of those disorders
	<b>B. Intellectual Skills:</b>
b1	Differentiate <b>between healthy and</b> pathological state of pediatrics gastrointestinal, cardiological, hematological systems and their management
b2	Use the clinical history, examination and investigation to put a diagnostic and therapeutic plan of different common pediatric diseases
	<b>C. Professional and Practical Skills:</b>
c1	Perform a <b>complete clinical history and</b> examination and mention the appropriate diagnostic tools of common pediatric diseases.
c2	Prescribe the appropriate drugs for the main pediatric diseases with the adequate knowledge of pharmacological proprieties of drugs
c3	Participate in the routine pediatric and infantile procedure and the diagnostic and therapeutic tools
	<b>D. Transferable Skills:</b>
<b>d1</b>	<b>Provide a clear medical</b> communication with patients and their families about the medical status of the patients

#### IV. Course Contents:

##### A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
1	<b>Nutrition</b>	<ul style="list-style-type: none"> <li>- Normal daily requirements of water, macro- and micro-nutrients.</li> <li>- Vitamins (A, K, D, C, B complex), function, Deficiency and excess: causes, clinical pictures, diagnosis and treatment</li> </ul>	4 <sup>th</sup> w	6h

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No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
		- Malnutrition (SAM)		
2	Gastroenterology	<b>Acute gastroenteritis:</b> - Etiologies, Diagnosis and Managements <b>Dehydration:</b> diagnosis and management		4h
3	Malabsorption	<b>Chronic diarrhea and malabsorption:</b> celiac disease, CF, lactose intolerance Clinical presentation, Diagnosis and management	5 <sup>th</sup> w	4h
4	Hepatitis	<b>Hepatitis:</b> Acute and chronic, infectious and non-infectious, clinical presentation, Diagnosis and management		2h
5	Bleeding Disorder	Definition, types, clinical manifestations, diagnosis and Management: ITP, HSP, hemophilia, WVD		4h
6	Anemias	Definition, Types, clinical Manifestation, diagnosis and management: nutritional (iron deficiency anemia, folate and b12 deficiency), hemolytic (thalassemia, SCA, G6PD deficiency, spherocytosis, immune)	6 <sup>th</sup> w	6h
7	Cardiology	<b>Congenital Heart disease:</b> Acyanotic (VSD, ASD, PDA) & Cyanotic (TOF, TGA): types, dynamics, clinical presentation diagnosis and treatment <b>Infective endocarditis:</b> causes, clinical pictures, diagnosis and treatment <b>Acute rheumatic fever:</b> causes, clinical presentations, diagnosis and treatment		4h
8	Final practical exam			7 <sup>th</sup> W
9	Final Written Exam		7 <sup>th</sup> W	2h
<b>Number of Weeks /and Units Per Semester</b>			<b>4 w</b>	<b>34 h</b>

### B. Practical Aspect (Lab/Clinical) (if any):

No.	Tasks/ Experiments	Number of Weeks	Contact Hours
1	Nutritional assessment – examination of abdomen – management of dehydration and SAM	4 <sup>th</sup> w	30
2	Liver examination and abnormal clinical finding of common hepatic disease	5 <sup>th</sup> w	30

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No.	Tasks/ Experiments	Number of Weeks	Contact Hours
	Bleeding disorders		
3	Cardiac and hematological history taking and physical examination	6 <sup>th</sup> w	18
<b>Number of Weeks /and Units Per Semester</b>		<b>3W</b>	<b>78</b>

### C. Tutorial Aspect (if any):

No.	Tutorial	Number of Weeks	Contact Hours
1	Plan of management of SAM	4 <sup>th</sup> w	2h
2	Plan of management of hemophilia	5 <sup>th</sup> w	2h
3	Plan of management of thalassemia and Tet spell	6 <sup>th</sup> w	2h
<b>Number of Weeks /and Units Per Semester</b>		<b>3W</b>	<b>6h</b>

### V. Teaching Strategies of the Course:

- Lectures
- Seminars
- Practical session
- Training
- Discussion
- Self-learning
- Presentation
- Case study

### VI. Assessment Methods of the Course:

- Written exam
- Final Clinical exam
- Long-short- OSCE
- Oral Presentation & Homework

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## VII. Assignments:

No.	Assignments	Week Due	Mark
1	Assignment 1: strategy of treating a case of dehydration and a case of celiac disease	4 <sup>th</sup> w	5
2	Assignment 2: strategy of treating a case of sickle cell anemia	4 <sup>th</sup> w	5
<b>Total</b>			<b>10</b>

## VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment
1	Assignments	4 <sup>th</sup> -5 <sup>th</sup>	10	10%
2	Homework & Oral Presentation	6 <sup>th</sup>	10	10%
3	Final Clinical Exam	7 <sup>th</sup>	30	30%
4	Final Written Exam & long-short- OSCE	7 <sup>th</sup>	50	50%
<b>Total</b>			<b>100</b>	<b>100%</b>

## X. Learning Resources:

### 1- Required Textbook(s):

1. Karen J. Marcdante, 2019, Nelson Essentials of Pediatrics, Eighth Edition, Elsevier
- 3- Robert M. Kliegman, 2020, Nelson Textbook of Pediatrics, 21<sup>st</sup> Edition, Elsevier

### 2- Essential References:

- 4- Keith Kleinman, 2021, The Harriet Lane Handbook, 22nd Edition, Elsevier
- 5- Albert J. Pomeranz, 2016, Pediatric Decision-Making Strategies, Second Edition, Saunders

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

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- 1- <http://www.aap.com>
- 2- <http://www.medscape.com>

<b>XI. Course Policies: (Based on the Uniform Students' Bylaw (2007))</b>	
<b>1</b>	<b>Class Attendance:</b> 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.
<b>2</b>	<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.
<b>3</b>	<b>Exam Attendance/Punctuality:</b> 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.
<b>4</b>	<b>Assignments &amp; Projects:</b> Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
<b>5</b>	<b>Cheating:</b> 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.
<b>6</b>	<b>Forgery and Impersonation:</b> 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.
<b>7</b>	<b>Other policies:</b> 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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