



## Course Specification of Necropsy

I. <u>Course Identification and General Information:</u>					
1	<b>Course Title</b>	Necropsy			
2	<b>Course Number &amp; Code:</b>	PA578			
3	<b>Credit hours:</b>	C.H			
		Theoretical	Practical	Training	Seminar
		1	1		2
4	<b>Study level/ semester at which this course is offered:</b>	Fifth Year - Second Semester			
5	<b>Pre –requisite (if any):</b>	ANT232, ANT234, PA723, IM566			
6	<b>Co –requisite (if any):</b>				
7	<b>Program (s) in which the course is offered:</b>	Bachelor Veterinary Medicine			
8	<b>Language of teaching the course:</b>	English			
9	<b>Location of teaching the course:</b>	Faculty of Veterinary Medicine			
10	<b>Prepared by:</b>	Dr. Aref saleh mohammed abdulmghni			
11	<b>Date of approval:</b>				

### II. Course description:

The course aimed to provide the student with knowledge and skills in the introduction & classification of Necropsy, and know various methods of External Examination Subcutis and Umbilical Area. Identify the Fatal Diseases or Conditions with No Lesions .

### III. Intended learning outcomes (ILOs) of the course:

#### (A) Knowledge and Understanding:

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Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: Knowledge and Understanding.			
Program Intended Learning Outcomes (Sub-PILOs) in: Knowledge and Understanding		Course Intended Learning Outcomes (CILOs) in: Knowledge and Understanding	
After completing this program, students will be able to:		After completing this course, students will be able to:	
<b>A2-</b>	Illustrates basic concepts, principles, and theories related to animal production, animal health and nutrition, behavior management, breeding and care, and animal-related ethical Bloggs.	<b>a1-</b>	Identify the Necropsy (External Examination Subcutis and Umbilical Area)
<b>A3</b>	Identifies various causes of diseases and animal epidemics and how they can be diagnosed, including common diseases that life-threatening of animals, poultry and fish.	<b>a2</b>	Describe the Fatal Diseases or Conditions with No Lesions.

**Teaching And Assessment Methods For Achieving Learning Outcomes:**

Alignment of Learning Outcomes of Knowledge and Understanding to Teaching and Assessment Methods:			
Course Intended Learning Outcomes (CILOs) in Knowledge and Understanding		Teaching strategies/methods to be used	Methods of assessment
completing this course, students will be able to:		1-Interactive lectures (Brain storming, seminars, discussion). 2-Practical lessons in dissecting room 3- Self learning followed by active learning (beer article and discussion in group). 4- Audiovisual aids materials. 5- Students presentations	Written exam -Practical exam -Oral exam - Quizzes - Report assignments - Discussion
<b>a1-</b>	Identify the Necropsy (External Examination Subcutis and Umbilical Area)		
<b>a2-</b>	Describe the Fatal Diseases or Conditions with No Lesions.		

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<b>(B) Intellectual Skills:</b>			
<b>Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: Intellectual skills</b>			
<b>Program Intended Learning Outcomes (Sub-PILOs) in Intellectual skills</b>		<b>Course Intended Learning Outcomes (CILOs) of Intellectual Skills</b>	
<b>After completing this program, students will be able to:</b>		<b>After completing this course, students will be able to:</b>	
<b>B2</b>	Assess, classify and describe appropriate treatment for affected animals according to the principles of the integrated management.	b1-	Evaluate the outcome of the Necropsy regarding to the cost/ benefit ratio
<b>B3</b>	Recognize and institute appropriate initial management for different animal emergencies.	b2-	Evidence based veterinary medicine in making decisions to select from different choices
<b>Teaching And Assessment Methods For Achieving Learning Outcomes:</b>			
<b>Alignment of Learning Outcomes of Intellectual Skills to Teaching Methods and Assessment Methods:</b>			
<b>Course Intended Learning Outcomes (CILOs) in Intellectual Skills.</b>		<b>Teaching strategies/methods to be used</b>	<b>Methods of assessment</b>
<b>After completing this course, students will be able to:</b>		1-Interactive lectures (Brain storming, seminars, discussion). 2-Practical lessons in dissecting room 3- Self learning followed by active learning (beer article and discussion in group). 4- Audiovisual aids materials. 5- Students presentations	Written exam -Practical exam -Oral exam - Quizzes - Report assignments - Discussion
<b>b1-</b>	Evaluate the outcome of the Necropsy regarding to the cost/ benefit ratio		
<b>b2-</b>	Evidence based veterinary medicine in making decisions to select from different choices		

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**(C) Professional and Practical Skills:**

**Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: Professional and Practical Skills**

Program Intended Learning Outcomes (Sub-PILOs) in Professional and Practical Skills		Course Intended Learning Outcomes (CILOs) in Professional and Practical Skills	
After completing this program, students will be able to:		After completing this course, students will be able to:	
C2	Practicing practical, diagnostic, clinical and research skills, including the collection of samples in various fields of veterinary medicine and related sciences, in a safe and effective manner, taking into account the ethics of the profession.	c1-	Perform different types of Necropsy
C3	Reads the results of laboratory investigations and diagnostic scans and writes reports and prescriptions for all common cases in a proper way.	c2-	Perform different techniques for Necropsy and position according to type of animal.

**Teaching And Assessment Methods For Achieving Learning Outcomes:**

**Alignment of Learning Outcomes of Professional and Practical Skills to Teaching and Assessment Methods:**

Course Intended Learning Outcomes (CILOs) in Professional and Practical Skills		Teaching strategies/methods to be used	Methods of assessment
After completing this course, students will be able to:		1-Interactive lectures (Brain storming, seminars, discussion). 2-Practical lessons in dissecting room 3- Self learning followed by active learning (beer article and discussion in group). 4- Audiovisual aids	Written exam -Practical exam -Oral exam - Quizzes - Report assignments - Discussion
c1-	Perform different types of Necropsy		
c2-	Perform different techniques for Necropsy and position according to type of animal.		

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		materials. 5- Students presentations	
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**(D) General / Transferable Skills:**

**Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: General and Transferable skills**

Program Intended Learning Outcomes (PILOs) in General / Transferable skills		Course Intended Learning Outcomes (CILOs) in General / Transferable skills	
After completing this program, students will be able to:		After completing this course, students will be able to:	
<b>D3</b>	Practices problem-solving, negotiation, supervision and veterinary medical management skills and writing research reports efficiently and professionally.	d1-	Collect of the videos through websites which show for students clinical symptoms on animals of different surgical affections and the surgical operations.
<b>D4</b>	Works in normal conditions, crises and epidemics, alone and effectively within a medical team.	d2-	Demonstrate appropriate professional attitudes and behaviors in different practice situations.

**Teaching And Assessment Methods For Achieving Learning Outcomes:**

**Alignment of Learning Outcomes of General and Transferable skills to Teaching and Assessment Methods:**

Course Intended Learning Outcomes (CILOs) in General and Transferable Skills		Teaching strategies/methods to be used	Methods of assessment
After completing this course, students will be able to:		1-Interactive lectures (Brain storming, seminars, discussion). 2-Practical lessons in dissecting room 3- Self learning followed by	Written exam -Practical exam -Oral exam - Quizzes
<b>d1-</b>	Collect of the videos through websites which show for students clinical symptoms on animals of different surgical affections and the surgical operations.		
<b>d2-</b>	Demonstrate appropriate professional attitudes and behaviors in different practice		

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	situations.	active learning (beer article and discussion in group). 4- Audiovisual aids materials. 5- Students presentations	- Report assignments  - Discussion
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IV. Course Content:					
1 – Course Topics/Items:					
a – Theoretical Aspect					
Order	Topic List / Units	CILOs (symbols)	Sub-topic List	Number of weeks	Contact hours
1	General Necropsy Technique	a1- a2- b1- b2- c1- c2	Definition , -Classification	1	1
2	External Examination Subcutis and Umbilical Area	a1- a2- b1- b2- c1- c2	Definition , -Classification	2	1
3	Body Cavity Opening and Evaluation	a1- a2- b1- b2- c1- c2	Definition , -Classification	3	1
4	Fatal Diseases or Conditions with No Lesions	a1- a2- b1- b2- c1- c2	Definition , -Classification	4	1
5	Allergy and Allergy-Like Deaths	a1- a2- b1- b2- c1- c2	Definition , -Classification	5	1

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6	Fetal Deaths 95 Poisonings and Toxins	a1- a2- b1- b2- c1- c2	Definition , -Classification	6	1
7	Metabolic-Related Diseases	a1- a2- b1- b2- c1- c2	Definition , -Classification	7	1
8	Anatomic Diagram s for Necropsy Findings	a1- a2- b1- b2- c1- c2	Definition , -Classification	8	1
9	Fatal Diseases or Conditions with No Lesions	a1- a2- b1- b2- c1- c2	Definition , -Classification	9	1
10	Fatal Diseases or Conditions with No Lesions	a1- a2- b1- b2- c1- c2	Definition , -Classification	10	1
11	Fatal Diseases or Conditions with No Lesions	a1- a2- b1- b2- c1- c2	Definition , -Classification	11	1
12	Representative Stages of Postmortem Lung Inflation	a1- a2- b1- b2- c1- c2	Definition , -Classification	12	1
13	Types of Fat Necrosis	a1- a2- b1- b2- c1- c2	Definition , -Classification	13	1
14	Types of Fat Necrosis	a1- a2- b1- b2- c1- c2	Definition , -Classification	14	1
Number of Weeks /and Units Per Semester				14	14

b- Training Aspect:

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Order	Training Tasks	CILOs (symbols)	Number of weeks	Contact hours
1	Gastrointestinal Tract Removal	a1- a2- b1- b2- c1- c2	1	2
2	Abdominal Visceral Removal	a1- a2- b1- b2- c1- c2	1	2
3	Tongue, Thyroids, Esophagus, Trachea, Lung, and Heart Removal	a1- a2- b1- b2- c1- c2	1	2
4	Joint Examination	a1- a2- b1- b2- c1- c2	1	2
5	Eye and Brain Removal	a1- a2- b1- b2- c1- c2	1	2
6	Pituitary Removal and Bone M arrow Examination	a1- a2- b1- b2- c1- c2	1	2
7	Review	a1- a2- b1- b2- c1- c2	1	2
8	Remove Mandible	a1- a2- b1- b2- c1- c2	1	2
9	Guttural Pouch Examination	a1- a2- b1- b2- c1- c2	1	2
10	Opening the Heart	a1- a2- b1- b2- c1- c2	1	2

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11	Procedures and equipment of general Necropsy	a1- a2- b1- b2- c1- c2	1	2
12	Ligaments, Tendons, and Joints	a1- a2- b1- b2- c1- c2	1	2
13	Ligaments, Tendons, and Joints	a1- a2- b1- b2- c1- c2	1	2
14	Ligaments, Tendons, and Joints	a1- a2- b1- b2- c1- c2	1	2
<b>Number of Weeks /and Units Per Semester</b>			<b>14</b>	<b>28</b>

#### V. Teaching strategies of the course:

- 1-Interactive lectures (Brain storming, seminars, discussion).
- 2-Practical lessons in dissecting room
- 3- Self learning followed by active learning (beer article and discussion in group).
- 4- Audiovisual aids materials.
- 5- Students presentations

#### 3-Assessment Methods:

- 1-Practical exam
- 2-Oral exam
- 3- Quizzes
- 4- Report assignments
- 5- Discussion
- 6- Written exam

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

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No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes (CILOs symbols)
1	Participation and quizzes and Assignments	2-14	10	10%	a1- a2- b1- b2- c1- c2- d1-d2
2	Mid-Term Exam	8	10	10%	a1- a2- b1- b2- c1- c2
3	Mid-Term Practical Exam	8	10	10%	a1- a2- b1- b2- c1- c2
4	Final Practical Exam	15	10	10%	a1- a2- b1- b2- c1- c2
5	Oral Exam	16	5	5%	a1- a2- b1- b2- c1- c2
6	Final Exam	16	55	55%	a1- a2- b1- b2- c1- c2
<b>Total</b>			<b>100</b>	<b>100%</b>	

VII. Students' Support:	
Office Hours/week	Other Procedures (if any)
Saturday-Wednesday from 8:00 a.m.-2 p.m.	Student can contact me via email

VIII. Learning Resource (MLA style or APA style)s:	
1- Required Textbook(s) ( maximum two )	
1-	Alys L, Wilson JC, Clarke J, et al. Developmental animal cruelty and its correlates in sexual homicide offenders and sex offenders. In: Linzey A, ed. The Link Between Animal Abuse and Human Violence. Brighton, UK: Sussex Academic Press; 2009:145–162.
2.	Amadasi A, Borgonovo S, Brandone A, et al. The survival of metallic residues from gunshot wounds in cremated bone: a radiological study. Int J Legal Med. 2012;126:363–369.
3.	Anderson GS. Comparison of decomposition rates and faunal colonization of carrion in indoor and outdoor environments. J Forensic Sci. 2011;56(1): 136–142.

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	4. Kubo H, Hayashi T, Ago K, et al. Forensic diagnosis of ante- and post-mortem burn based on aquaporin-3 gene expression in the skin. <i>Legal Med.</i> 2014;16: 128–134.
2-	Recommended Readings and Reference Materials
	John 2013. <u>THE NECROPSY BOOK</u>
3-	Essential References
4-	Electronic Materials and Web Sites etc.
	<u>THE NECROPSY BOOK Revised January 2013</u>
5-	Other Learning Material:
	-
<b>X. Course Policies:</b>	
1	<b>Class Attendance:</b> <b>MANDATORY TO ATTEND ALL COURSE LECTURES</b>
2	<b>Tardiness:</b> Not allowed at all. Students must be in class or in the practical session 10 minutes prior to the beginning of lectures or practical session
3	<b>Exam Attendance/Punctuality:</b> Attendance is mandatory; absence is accepted with valid excuse
4	<b>Assignments &amp; Projects:</b> All assignments and projects are to be submitted on their due date. Any assignment turned in after the due date will not be accepted without valid and reasonable excuse
5	<b>Cheating:</b> Not tolerated and may lead to <b>EXPELLING</b> the student from the program
6	<b>Plagiarism:</b> Not tolerated <b>AT ALL</b> and may lead to <b>EXPELLING</b> the student from the program
7	<b>Other policies:</b> <ol style="list-style-type: none"> <li>1. All devices must be on silent or at least on vibration during lectures/labs</li> <li>2. Before any exam (written, oral) we must check student's identity (student's card, ID, passport). Without any of these documents, the student will not be allowed in the exam room.</li> <li>3. Any of type/ form of cheating is not allowed no matter what.</li> </ol>

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4. Maintain silence during lectures/exam and disturbance is not allowed. For any questions students should raise their hand and wait for permission to talk.

**Course Plan of Necropsy**

**X. - Information about Faculty Member Responsible for the Course:**

<b>Name of Faculty Member</b>	Dr-Aref Saleh Mohammed Abdulmughni,	<b>Office Hours</b>					
<b>Location &amp; Telephone No.</b>	Dhamar university Mobile: +967774501741	<b>SAT</b>	<b>SUN</b>	<b>MON</b>	<b>TUE</b>	<b>WED</b>	<b>THU</b>
<b>E-mail</b>	<a href="mailto:areef2000@yahoo.com">areef2000@yahoo.com</a>						

**XI. Course Identification and General Information:**

1	<b>Course Title:</b>	Necropsy				
2	<b>Course Number &amp; Code:</b>	PA578				
3	<b>Credit hours:</b>	<b>C.H</b>				<b>Total</b>
		<b>Theoretical</b>	<b>Practical</b>	<b>Training</b>	<b>Seminar</b>	
		1	1			2
4	<b>Study level/year at which this course is offered:</b>	Fifth Year - Second Semester				
5	<b>Pre –requisite (if any):</b>	ANT232, ANT234, PA723, IM566				
6	<b>Co –requisite (if any):</b>	None				
7	<b>Program (s) in which the course is offered</b>	Bachelor of Veterinary Medicine				
8	<b>Language of teaching the course:</b>	English				
9	<b>System of Study:</b>	Faculty of Veterinary Medicine				
10	<b>Mode of delivery:</b>	Dr. Aref saleh mohammed abdulmughni				

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11	<b>Location of teaching the course:</b>	Faculty of Veterinary Medicine Building

<b>II. Course Description:</b>
The course aimed to provide the student with knowledge and skills in the introduction & classification of Necropsy, and know various methods of External Examination Subcutis and Umbilical Area. Identify the Fatal Diseases or Conditions with No Lesions .

<b>II. Intended learning outcomes (ILOs) of the course:</b>
After completing this course, students will be able to:
<ul style="list-style-type: none"> <li>a1- Identify the Necropsy (External Examination Subcutis and Umbilical Area)</li> <li>a2- Describe the Fatal Diseases or Conditions with No Lesions.</li> <li>b1- Evaluate the outcome of the Necropsy regarding to the cost/ benefit ratio</li> <li>b2- Evidence based veterinary medicine in making decisions to select from different choices</li> <li>c1- Perform different types of Necropsy</li> <li>c2- Perform different techniques for Necropsy and position according to type of animal.</li> <li>d1- Collect of the videos through websites which show for students clinical symptoms on animals of different surgical affections and the surgical operations.</li> <li>d2- Demonstrate appropriate professional attitudes and behaviors in different practice situations.</li> </ul>

<b>V. Course Content:</b>			
<b>A – Theoretical Aspect:</b>			
Order	Topics List	Week Due	Contact Hours
1	General Necropsy Technique	1	1

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2	External Examination Subcutis and Umbilical Area	2	1
3	Body Cavity Opening and Evaluation	3	1
4	Fatal Diseases or Conditions with No Lesions	4	1
5	Allergy and Allergy-Like Deaths	5	1
6	Fetal Deaths 95 Poisonings and Toxins	6	1
7	Metabolic-Related Diseases	7	1
8	<b>Mid-Term Exam</b>	8	1
9	Anatomic Diagram s for Necropsy Findings	9	1
10	Fatal Diseases or Conditions with No Lesions	10	1
11	Fatal Diseases or Conditions with No Lesions	11	1
12	Fatal Diseases or Conditions with No Lesions	12	1
13	Representative Stages of Postmortem Lung Inflation	13	1
14	Types of Fat Necrosis	14	1
15	Types of Fat Necrosis	15	1
16	<b>Final Exam</b>	16	1
<b>Number of Weeks /and Units Per Semester</b>		<b>16</b>	<b>16</b>

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<b>b- Training Aspect:</b>			
Order	Training Tasks	Week Due	Contact hours
1	Gastrointestinal Tract Removal	1	2
2	Abdominal Visceral Removal	2	2
3	Tongue, Thyroids, Esophagus, Trachea, Lung, and Heart Removal	3	2
4	Joint Examination	4	2
5	Eye and Brain Removal	5	2
6	Pituitary Removal and Bone M arrow Examination	6	2
7	Ligaments, Tendons, and Joints	7	2
8	<b>Mid-Term Exam</b>	8	2
9	Remove Mandible	9	2

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10	Guttural Pouch Examination	10	2
11	Opening the Heart	11	2
12	Procedures and equipment of general Necropsy	12	2
13	Ligaments, Tendons, and Joints	13	2
14	Ligaments, Tendons, and Joints	14	2
15	Ligaments, Tendons, and Joints	15	2
16	<b>Final Exam</b>	16	2
<b>Number of Weeks /and Units Per Semester</b>		<b>16</b>	<b>32</b>

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**V. Teaching strategies of the course:**

- 1- Interactive lectures (Brain storming, seminars, discussion).
- 2- Practical lessons in dissecting room
- 4- Self learning followed by active learning (peer article and discussion in group).
- 5- Audiovisual aids materials.

**VI. Assessment Methods:**

No.	Type of Assessment Tasks	Week Due	Mark	Proportion of Final Assessment
1	Participation, quizzes and assignments	2-14	10	10%
2	Mid-Term Exam	8	10	10%
3	Mid-Term Practical Exam	8	10	10%
4	Final Practical Exam	15	10	10%
5	Oral Exam	16	5	5%
6	Final Exam	16	55	55%
<b>Total</b>			<b>100</b>	<b>100%</b>

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Quality Assurance Unit  
 Dr. Abdulraqeb Alshami

Dean of the Faculty  
 Ass. Prof. Dr. Abdu Alraoof  
 Al-Shawkany

Academic Development  
 Center & Quality  
 Assurance  
 Ass. Prof. Dr. Huda Al-  
 Emad

Rector of Sana'a University  
 Prof. Dr. Al-Qassim Mohammed Abbas



IX. Learning Resource (MLA style or APA style)s:	
<b>6- Required Textbook(s) ( maximum two )</b>	
	<p>1- Alys L, Wilson JC, Clarke J, et al. Developmental animal cruelty and its correlates in sexual homicide offenders and sex offenders. In: Linzey A, ed. The Link Between Animal Abuse and Human Violence. Brighton, UK: Sussex Academic Press; 2009:145–162.</p> <p>2. Amadasi A, Borgonovo S, Brandone A, et al. The survival of metallic residues from gunshot wounds in cremated bone: a radiological study. Int J Legal Med. 2012;126:363–369.</p> <p>3. Anderson GS. Comparison of decomposition rates and faunal colonization of carrion in indoor and outdoor environments. J Forensic Sci. 2011;56(1): 136–142.</p> <p>4. Kubo H, Hayashi T, Ago K, et al. Forensic diagnosis of ante- and post-mortem burn based on aquaporin-3 gene expression in the skin. Legal Med. 2014;16:</p> <p>•</p>
<b>7- Recommended Readings and Reference Materials</b>	
	John 2013. <u>THE NECROPSY BOOK</u>
<b>8- Essential References</b>	
<b>9- Electronic Materials and Web Sites etc.</b>	
	<u>THE NECROPSY BOOK Revised January 2013</u>
<b>10- Other Learning Material:</b>	
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XI. Course Policies:	
<b>1</b>	<b>Class Attendance:</b>

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<b>MANDATORY TO ATTEND ALL COURSE LECTURES</b>	
<b>2</b>	<p><b>Tardiness:</b> Not allowed at all. Students must be in class or in the practical session 10 minutes prior to the beginning of lectures or practical session</p>
<b>3</b>	<p><b>Exam Attendance/Punctuality:</b> Attendance is mandatory; absence is accepted with valid excuse</p>
<b>4</b>	<p><b>Assignments &amp; Projects:</b> All assignments and projects are to be submitted on their due date. Any assignment turned in after the due date will not be accepted without valid and reasonable excuse</p>
<b>5</b>	<p><b>Cheating:</b> Not tolerated and may lead to <b>EXPELLING</b> the student from the program</p>
<b>6</b>	<p><b>Plagiarism:</b> Not tolerated <b>AT ALL</b> and may lead to <b>EXPELLING</b> the student from the program</p>
<b>7</b>	<p><b>Other policies:</b></p> <ol style="list-style-type: none"> <li>5. All devices must be on silent or at least on vibration during lectures/labs</li> <li>6. Before any exam (written, oral) we must check student's identity (student's card, ID, passport). Without any of these documents, the student will not be allowed in the exam room.</li> <li>7. Any of type/ form of cheating is not allowed no matter what.</li> <li>8. Maintain silence during lectures/exam and disturbance is not allowed. For any questions students should raise their hand and wait for permission to talk.</li> </ol>

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