Faculty Of Veterinary Medicine

Veterinary Medicine Program









Course Specification of Histology (2)

I.	Course Identification and General Info	rmation:				
1	Course Title:	Histology (2)				
2	Course Number & Code:	ANT234				
		C.H Tot				Total
3	Credit hours:	Theoretical	Practical	Training	Seminar	Total
		2	1			3
4	Study level/ semester at which this course is offered:	Second Year: Second Semester				
5	Pre –requisite (if any):		AN	NT233		
6	Co -requisite (if any):		N	Vone		
7	Program (s) in which the course is offered:	Second Year: Second Semester				
8	Language of teaching the course:	English				
9	Location of teaching the course:	Faculty Of Veterinary Medicine				
10	Prepared by:	Dr. Saleh Ahmed Mohammed Ali Alomaisi				
11	Date of approval:					

II. Course description:

Histology course will acquire the scientific knowledge about how organized groups of cells (tissues) are arranged to form the organ systems of the body.

To appreciate that while the emphasis in histology is on the structure of cells, tissues and organs, structure has very little meaning without understanding the function, much of which is also presented in the other components of the course.

To be aware that one reason for studying histology (the normal structure) is so that you can better understand a pathological (abnormal) change and the consequences of that change.

Understand that the tissues of an organ are formed of cells with different structure and function but all of

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them cooperate to perform the function allotted to the organ.

Familiarize students with the basic information about the characteristics and functions of the nervous and muscular tissues as well as those of cardiovascular, immune, digestive, respiratory and urinary systems and compare between them.

	. Intended learning outcomes (IL	Us) (of the course:	
(A)	Knowledge and Understanding:			
A	ignment of Course Intended Learning Outcomes (CILOs) t	_	am Intended Learning Outcomes ((PILOs) in: Knowledge and
			Course Intended Learnin Knowledge and	•
After	completing this program, students will be able to:	After	completing this course, studen	ts will be able to:
A1-	Demonstrate a sound knowledge and understanding of concepts and principles of general culture, basic science, and that support veterinary medicine.	a1-	molecular relationships in a differentiation of somatic	copic and ultra structure and the relation to function, growth, and and stem cells, death and lls of the domestic animals body.
A4-	Clarifies basic concepts, principles, and theories related to animal production, animal health and nutrition, behavior management, breeding and care that is related to animal ethical codes.	digestive, urinary endocrine, nervous, male & female genital systems in different animals.		
	Teaching And Assessment Met	hods	For Achieving Learni	ng Outcomes:
	Alignment of Learning Outcomes of Knowledge	and U	Inderstanding to Teaching a	nd Assessment Methods:
Cour	se Intended Learning Outcomes (CILOs) in	Teac	ching strategies/methods	Methods of assessment
	Knowledge and Understanding		to be used	
a1-	Describe the normal microscopic and ultra structure and the molecular relationships in relation to function, growth, and differentiation of somatic and stem cells, death and inheritance of eukaryotic cells of the domestic animals body.	Lectures Practical application (Labs) Dialogue and discussion Scientific trips Simulation and demos		The written test (Monthly, Midterm, Final) Short tests (Quizzes)
Γ	Prepared by Quality Assurance Unit Dr. Saleh Almaisi Dr. Abdulraqeb Alshami	Ass	Dean of the Faculty s. Prof. Dr. Abdu Alraoof Al-Shawkany	Academic Development Center & Quality Assurance Ass. Prof. Dr. Huda Al-

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

Emad

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a2-	Distinguish microscopic structure of	Brainstorming	Oral tests
	respiratory, digestive, urinary endocrine, nervous, male & female genital systems in different animals.	■ Self education	Practical tests (Lab Test)Projects Presentations

(B)	Intellectual Skills:			
Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: Intellectual skills Program Intended Learning Outcomes (Sub- PILOs) in Intellectual skills Course Intended Learning Outcomes (CILOs) of Intellectual Skills				
After completing this program, students will be able to:			completing this course, stud	lents will be able to:
B1-	Competently practices analytical and critical thinking skills in studying and assessing health problems and reading the results of animal medical examinations that is related to sciences.	b1-		approach to the correct ical structure of the different
B2-	Predicts an appropriate medical diagnosis for the most common disease states through analysis of clinical story data and the results of medical examinations of a sick animal.	digestive, urinary, endocrine, nervous and		
Align	ument of Learning Outcomes of Intellectual Skil	ls to T	Ceaching Methods and As	sessment Methods:
Cou	rrse Intended Learning Outcomes (CILOs) in Intellectual Skills.	Teac	ching strategies/methods to be used	Methods of assessment
After	completing this course, students will be able to:	Lecti	ures	The written test
b1- b2-	Interpret a systematic approach to the correct identification of histological structure of the different body organs. Choose the main differences of	Practical application (Labs) Dialogue and discussion		Oral tests Practical tests Note the performance Achievement file
04-	respiratory, digestive, urinary, endocrine,	Scie	ntific trips	(Accomplishments)
I	Prepared by Quality Assurance Unit		Dean of the Faculty	Academic Development

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Ass. Prof. Dr. Abdu Alraoof Al-Shawkany

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

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nervous and reproductive system	Simulation and demos	Evaluation of reports
histology in different animals. Emphasis	Brainstorming	Evaluating student
to know comparable subjects at try correlate		presentations
structure and function.	Self education	
	Research costs and projects	

(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 (Supplementation (Supplementation) in Professional and Practical Skills				Learning Outcomes nal and Practical Skills
After	completing this program, students will be able to:		Aftei	completing this coun	rse, students will be able to:
C1-	Accurately records a comprehensive pathostory of a sick animal including informate healthy behavior and the necessary checks.	_	c1-	bronchioles, respin	rachea, bronchi, terminal ratory bronchioles, alveolar rastrointestinal epithelium and gestion.
C2-	C2- Practices 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.		c2-	Improve sections preparation of the blood, bone marrow, lymphatic, respiratory, digestive, urinary, endocrine, nervous, male & female genital systems system tissue in different species of animal.	
4.10	Teaching And Assessment M				
	ment of Learning Outcomes of Professional and Professional Learning Outcomes (CILOs) in			Teaching and Assess ategies/methods to	ment Methods: Methods of assessment
Cour	Professional and Practical Skills	reachi	_	e used	Wethous of assessment
	completing this course, students will be able to:	-	D 1 1 11 1		Practical testsNote the
c1-	Identify the trachea, bronchi, terminal bronchioles, respiratory bronchioles, alveolar ducts and alveoli, gastrointestinal epithelium and their functions in digestion. Improve sections preparation of the	 Problem Solving Cooperative learning and working groups Scientific trips 		blem Solving operative learning working groups	performance - The written test - Oral tests - Achievement
	Prepared by Quality Assurance Unit		ean c	of the Faculty	Academic Development

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blood, bone marrow, lymphatic,	- Case Study	file
respiratory, digestive, urinary, endocrine,	 Field and clinical 	 Evaluation of
nervous, male & female genital systems	training	reports
system tissue in different species of	 Simulation and 	- Evaluating
animal.	practical presentations	student
	- Research costs and	presentations
	projects	

(D)	(D) General / Transferable Skills:				
A	Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: General and Transferable skills				
Prog	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:			lents will be able to:		
D1-	Communicates effectively with other fellow professions and animal owners and expresses his ideas clearly and objectively.	d1-	Communicates effecti professions and animal ideas clearly and objecti	owners and expresses his	
D3-	Develops his scientific, professional, research capabilities on his own, and follows what is emerging in his field of specialization, including computer applications and information and communication technology.	d2- Appreciate the importance of lifelong learning, show a strong commitment to it, and communicate with his colleagues.			
	Teaching And Assessment Metho	ods I	For Achieving Learn	ing Outcomes:	
	Alignment of Learning Outcomes of General and Tra	nsfer	able skills to Teaching and	l Assessment Methods:	
Coi	urse Intended Learning Outcomes (CILOs) in General and Transferable Skills	Tea	ching strategies/methods to be used	Methods of assessment	
After	completing this course, students will be able to:		Dialogue and discussion Cooperative learning	Achievement file Evaluation of reports	
d1-	Communicates effectively with other fellow professions and animal owners and expresses his ideas clearly and objectively.	8	and working groups Scientific trips	Evaluating student presentations.	

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d2-	Appreciate the importance of lifelong learning,	Research costs and	Note the
	show a strong commitment to it, and	projects	performance.
	communicate with his colleagues.	Self education	Practical tests. (Lab
		Demo and practical	Test)
		presentations	·
		Problem Solving	
		8	

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	Respiratory system	a1- a2- b1- b2-c1- c2- d1- d2		2	4
2	digestive system	a1- a2- b1- b2-c1- c2- d1- d2		3	6
3	Urinary system	a1- a2- b1- b2-c1- c2- d1- d2		2	4
4	Male genital system	a1- a2- b1- b2-c1- c2- d1- d2		1	2
5	Female genital system	a1- a2- b1- b2-c1- c2- d1- d2		1	2
6	Endocrine and Nervous systems	a1- a2- b1- b2-c1- c2- d1- d2		3	6
7	Histology of Skin and hoof	a1- a2- b1- b2-c1- c2- d1- d2		2	4
	Number of Wee	eks /and Units Per Seme	ster	14	28

b- Training Aspect:

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Order	Training Tasks	CILOs (symbols)	Number of weeks	Contact hours
1	Respiratory system	a1- a2- b1- b2-c1- c2- d1- d2	2	4
2	Comparative digestive system	a1- a2- b1- b2-c1- c2- d1- d2	2	4
3	Urinary system	a1- a2- b1- b2-c1- c2- d1- d2	2	4
4	Male reproductive system	a1- a2- b1- b2-c1- c2- d1- d2	2	4
5	Female reproductive system	a1- a2- b1- b2-c1- c2- d1- d2	2	4
6	Endocrine and Nervous system	a1- a2- b1- b2-c1- c2- d1- d2	2	4
7	Skin& its appendages	a1- a2- b1- b2-c1- c2- d1- d2	2	4
	Number of Weeks /and Units Pe	er Semester	14	28

V. Teaching strategies of the course:

- In class lectures using PowerPoint presentation
- In class/lab quiz
- Written exams will take place during the semester
- Practical session on histopathological slides and or tissue
- Student will be encouraged to work together in groups
- Oral Exam

3-Assessment Methods:

- 1.Quizzes should take place for lectures/labs at least once a week with a total of 20 quizzes through the semester (100 points)
- 2. Three written exams through the semester (100 points each)
- 3. Practical exam on histopathological slides or tissue specimens (100 points)

Grading Scale:

Grades are awarded on a scale from A to F, where A is the best grade(90-100) and F is a fail (<50).

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V	VI. Schedule of Assessment Tasks for Students During the Semester:				
No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes (CILOs symbols)
1	Participation quizzes and assignments	1-12	10	10%	a1- a2- b1- b2-c1- c2- d1- d2
2	Mid-semester exam	7	10	10%	a1- a2- b1- b2-c1- c2- d1- d2
3	Practice exam	13	20	20%	a1- a2- b1- b2-c1- c2- d1- d2
5	Oral exam	13	5	5%	a1- a2- b1- b2-c1- c2- d1- d2
	Final Exam	16	55	55%	a1- a2- b1- b2-c1- c2- d1- d2
	Total	_	100	100%	

I. Students' Support:-	
Office Hours/week	Other Procedures (if any)
Saturday-Wednesday from 8:00 a.m9:00 a.m.	Student can contact me via email

II. Learning Resource (MLA style or APA style)S:

1- Required Textbook(s) (maximum two)

Course Notes

Lecture notes (printed): Basic Veterinary Histology

Notes on histology and Colored Atlas of Histology by staff members of

histology Department

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2- Recommended Readings and Reference Materials

Bloom, W. and D. W. Fawcett (1994): Textbook of Histology; 12th Ed. W. B. Saunders C., Philadelphia.

Cheville, N.F. and Stasko, J. (2014): Techniques in Electron Microscopy of Animal Tissue. Veterinary Pathology, 51(1):28-41.

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Eurell, J.A. and Frappier, B.L. (2006): Dellmann's textbook of veterinary histology. Sixth edition. Blacky USA. Pp (156-158)(337-338).

<u>Fawcett(1994):A Text Book of Histology,12th ed.Chapman and Hall,New York,London.</u>

Pears,A.G.E.(1985): Histochemistery theoretical and applied,4th ed.Churchill

Livingstone, Melbourne and New York.

Junqueira, Carneino and Kelly (1995): Basic Histology, 7th ed.Librairrie du liban and lang buruit,London,New York.

Nomina Histologica Veterinaria (2017): International committee on veterinary Histological Nomenclature (ICVHN). General assemble of the world association of veterinary anatomists, 2018 by the General Assembly of the WAVA. 1stEd., Hannover (Germany), Columbia, MO (U.S.A.), Ghent (Belgium), Sapporo (Japan).

Suvarna, S.K., Layton, c. and Bancroft, J.D. (2019): Bancroft's theory and practical of histological techniques. Eighth ed. Elsevier. China, ISBN: 978-0-7020-6864-5.

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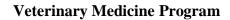
3-	Essential References
	Bloom, W. and Fawcett, W. (1997): Concise Histology, Chapman and Hall, New York and London. Cormack, D.H. (1997): Essential Histology, Lippincoff-Raven, Philadelphia and New York. Dellmann, H.D. and Brown, E.M. (1998): Textbook of Veterinary Histology, 5th Edition, Williams and Wilkins, Philadelphia and London. Junqueira Histology Textstack, Eighth Edition, by Junqueira, Carneiro and Kelley. Leslie, P.G., James, L.H. and Judy, M.S. (1993): Cell Biology and Histology, 2nd Edition, Williams and Wilkins, Philadelphia and London.
4-	Electronic Materials and Web Sites etc.
5-	Periodicals and Web Sites of histology, http://www.med-edonline.org/ http://www.histology.to/links.html www.pubmed.com Science direct Students are free to search online for any available course materials related to the course subjects and taught lectures in the class. Other Learning Material:
	-
X.	Course Policies:
1	Class Attendance: Mandatory to attend all course lectures and labs
2	Tardiness: 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	Exam Attendance/Punctuality: Attendance is mandatory; absence is accepted with valid excuse.
4	Assignments & Projects: 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.

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5	Cheating: Not tolerated and may lead to EXPELLING the student from the program							
6	Plagiarism:							
	Not tolerated AT ALL and may lead to EXPELLING the student from the program							
7	 Other policies: All devices must be on silent or at least on vibration during lectures/labs. Before any exam (written, practical, 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. Any of type/ form of cheating is not allowed no matter what. Maintain silence during lectures/exams and disturbance is not allowed. Fr any questions students should raise their hand and wait for permission to talk. 							

Course Plan of General Histology (2)

I Information about Faculty Member Responsible for the Course:				
Name of Faculty Member	Dr. Saleh Ahmed Mohammed Ali	Office Hours		

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	Alomaisi						
Location & Telephone No.	Sana'a , Thamar Governorate 776017635	SAT	SUN	MON	TUE	WED	THU
E-mail	alomisy78@gmail.com alomisy78@yahoo.com	8am 9am	8am 9am	8am 9am	8am 9am	8am 9am	

I	. Course Identification and General Info	rmation:				
1	Course Title:	Histology (2) ANT234				
2	Course Number & Code:					
			С.Н			Total
3	Credit hours:	Theoretical	Practical	Training	Seminar	Total
		2	1			3
4	Study level/ semester at which this course is offered:	Second Year: Second Semester				
5	Pre –requisite (if any):	ANT233				
6	Co –requisite (if any):		N	lome		
7	Program (s) in which the course is offered:	Second Year: Second Semester				
8	Language of teaching the course:	English				
9	System of Study:	Regular / Semesters				
10	Mode of delivery:	Lectures and Practical				
11	Location of teaching the course:	Faculty Of Veterinary Medicine				

II. Course Description:

Histology course will acquire the scientific knowledge about how organized groups of cells (tissues) are arranged to form the organ systems of the body.

To appreciate that while the emphasis in histology is on the structure of cells, tissues and organs, structure

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has very little meaning without understanding the function, much of which is also presented in the other components of the course.

To be aware that one reason for studying histology (the normal structure) is so that you can better understand a pathological (abnormal) change and the consequences of that change.

Understand that the tissues of an organ are formed of cells with different structure and function but all of them cooperate to perform the function allotted to the organ.

Familiarize students with the basic information about the characteristics and functions of the nervous and muscular tissues as well as those of cardiovascular, immune, digestive, respiratory and urinary systems and compare between them.

Intended learning outcomes (ILOs) of the cour	Intende	Inten	earnin	g outcomes	(ILOs) of the	course
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After completing this course, students will be able to:

- a1. Describe the normal microscopic and ultra structure and the molecular relationships in relation to function, growth, and differentiation of somatic and stem cells, death and inheritance of eukaryotic cells of the domestic animals body.
- a2. Distinguish microscopic structure of respiratory, digestive, urinary endocrine, nervous, male & female genital systems in different animals.
- b1. Interpret a systematic approach to the correct identification of histological structure of the different body organs.
- b2. Choose the main differences of respiratory, digestive, urinary, endocrine, nervous and reproductive system histology in different animals. Emphasis to know comparable subjects at try correlate structure and function .
- c1. Identify the trachea, bronchi, terminal bronchioles, respiratory bronchioles, alveolar ducts and alveoli, gastrointestinal epithelium and their functions in digestion.
- c2. Improve sections preparation of the blood, bone marrow, lymphatic, respiratory, digestive, urinary, endocrine, nervous, male & female genital systems system tissue in different species of animal.
- d1. Communicates effectively with other fellow professions and animal owners and expresses his ideas clearly and objectively.
- d2. Appreciate the importance of lifelong learning, show a strong commitment to it, and communicate with his colleagues.

X. Course Content:

A – Theo	A – Theoretical Aspect:								
Order	Topics List	Week Due	Contact Hours						
1	Respiratory system	1-2	4						
2	digestive system	3-5	6						
3	Urinary system	6-7	4						
4	Mid-Term Exam	8	2.						

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5	Male genital system	9-10	4
6	Female genital system	11-12	4
7	Endocrine and Nervous systems	13-14	4
8	Histology of Skin and hoof	15	2
9	9 Final Exam		2
	Number of Weeks /and Units Per Semester	16	32

	b- Training Aspect:							
Order	Training Tasks	Week Due	Contact hours					
1	Respiratory system	1-2	4					
2	Comparative digestive system	3-5	6					
3	Urinary system	6-7	4					
4	Mid-Term Exam	8	2					
5	Male reproductive system	9-10	4					
6	Female reproductive system	11-12	4					
7	Endocrine and Nervous system	13-14	4					
8	Skin& its appendages	15	2					
9	Final Exam	16	2					
	Number of Weeks /and Units Per Semester	16	32					

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KI. Teaching strategies of the course:

- Lectures using board, data shows and multimedia aids.
- Self-learning by preparing essay and presentations (computer and faculty library)
- Brainstorm
- Discussion
- Cooperative learning
- Practical training (Clinical demonstrations, practice of skills, and discussions).
 - (a) Field visits (farms and villages)
 - (b) General experimental animal teaching
 - (c) Clinical and small group sessions
 - (d) Outpatient clinic
- Tutorial classes (small group teaching)

II. Assessment Methods:

- -Written exam
- -Practical exam
- -Oral exam
- -Quizzes
- Report assignments
- Discussion.

No.	Type of Assessment Tasks	Week Due	Mark	Proportion of Final Assessment
1	Participation, quizzes and	2-14	10	10%

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	assignments			
2	Mid-Term Exam	8	10	10%
3	Mid-Term Practical Exam	8	10	10%
4	Final Practical Exam	13	10	10%
5	Oral Exam	13	5	5%
6	Final Exam	16	55	55%
	Total		100	100%

II. Learning Resource (MLA style or APA style)S:

6- Required Textbook(s) (maximum two)

Course Notes

Lecture notes (printed): Basic Veterinary Histology

Notes on histology and Colored Atlas of Histology by staff members of

histology Department

7- Recommended Readings and Reference Materials

Bloom, W. and D. W. Fawcett (1994): Textbook of Histology; 12th Ed. W. B. Saunders C. Philadelphia.

Cheville, N.F. and Stasko, J. (2014): Techniques in Electron Microscopy of Animal Tissue. Veterinary Pathology, 51(1):28-41.

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Livingstone,Melbourne and New York.

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Suvarna, S.K., Layton, c. and Bancroft, J.D. (2019): Bancroft's theory and practical of histological techniques. Eighth ed. Elsevier. China, ISBN: 978-0-7020-6864-5.

8- Essential References

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Dellmann, H.D. and Brown, E.M. (1998): Textbook of Veterinary Histology, 5th Edition, Williams and Wilkins, Philadelphia and London.

Junqueira Histology Textstack, Eighth Edition, by Junqueira, Carneiro and Kelley.

Leslie, P.G., James, L.H. and Judy, M.S. (1993): Cell Biology and Histology, 2nd Edition, Williams and Wilkins, Philadelphia and London.

9- Electronic Materials and Web Sites etc.

Periodicals and Web Sites of histology,

http://www.med-edonline.org/

http://www.histology.to/links.html

www.pubmed.com

Science direct

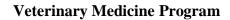
Students are free to search online for any available course materials related to the course subjects and

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Faculty Of Veterinary Medicine











	ught lectures in the class.				
10- Other Learning Material:					
	-				

1.0	1.Course Policies:						
1 Class Attendance:							
	Mandatory to attend all course lectures and labs						
2 Tardy:							
	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	Exam Attendance/Punctuality:						
	Attendance is mandatory; absence is accepted with valid excuse.						
4	Assignments & Projects:						
	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	Cheating:						
	Not tolerated and may lead to EXPELLING the student from the program						
6	Plagiarism:						
	Not tolerated AT ALL and may lead to EXPELLING the student from the program						
7	Other policies:						
	 All devices must be on silent or at least on vibration during lectures/labs. Before any exam (written, practical, oral) student's identity will be checked (student's card, ID, passport). Without any of these documents, the student will not be allowed in the exam room. Any of type/ form of cheating is not allowed no matter what. Maintain silence during lectures and disturbance is not allowed. Fr any questions students should raise their hand and wait for permission to talk. 						

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