Course Specification Diagnostic Radiology

I.	Course Identification and General Information:	
1	**Course Title:**	Diagnostic Radiology
2	**Course Number & Code:**	SR484

3	**Credit hours:**	C.H				Total
		Theoretical	**Practical**	**Training**	**Seminar**	
		1	1			2

4	**Study level/ semester at which this course is offered:**	Fourth Year - Second Semester
5	**Pre –requisite (if any):**	FR1113,ANT232
6	**Co –requisite (if any):**	
7	**Program (s) in which the course is offered:**	Bachelor of Veterinary Medicine
8	**Language of teaching the course:**	English
9	**Location of teaching the course:**	Faculty of Veterinary Medicine
1 0	**Prepared by:**	Dr. Aref saleh mohammed abdulmghni Dr. Saleh Ahmed Mohammed Ali Alomaisi .
1 1	**Date of approval:**	

II. Course description:

The course aimed to provide the student with knowledge and skills in the introduction & classification of Diagnostic Radiology. Identify the general Diagnostic Radiology of different animals species (fractures, bone affections and joint affections,).

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Dr. Aref Abdulmghni Dr. Saleh Alomaisi .	Dr. Abdulraqeb Alshami	Ass. Prof. Dr. Abdu Alraoof Al-Shawkany	Center & Quality Assurance Ass. Prof. Dr. Huda Al-Emad

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

(A) Knowledge and Understanding:

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:	
A1-	Demonstrate a sound knowledge and understanding of concepts and principles of general culture, basic science, and that support veterinary medicine.	a1-	Recognize the basic Radiology: (definition, principles, of x-ray
A4	Describes the foundations and procedural steps for treating all diseases that affect different animals, highlighting the medical conditions that need surgical interventions.	a2	Demonstrates knowledge about different methods of Radiology and suitable technique for different animals

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	Written exam -Practical exam -Oral exam - Quizzes - Report assignments - Discussion
a1-	Recognize the basic Radiology: (definition, principles, of x-ray		
a2-	Demonstrates knowledge about different methods of Radiology and suitable technique for different animals		

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Dr. Aref Abdulmghni Dr. Saleh Alomaisi .	Dr. Abdulraqeb Alshami	Ass. Prof. Dr. Abdu Alraoof Al-Shawkany	Ass. Prof. Dr. Huda Al-Emad

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		materials. 5- Students 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:		After completing this course, students 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 and in related sciences.	**b1-**	Deal with clinical cases and to know differential diagnosis between surgical affections causing lameness.
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 sick animal.	**b2-**	Evaluate the outcome of the surgery regarding to the cost/ benefit ratio

Teaching And Assessment Methods For Achieving Learning Outcomes:

Alignment of Learning Outcomes of Intellectual Skills to Teaching Methods and Assessment Methods:

Course Intended Learning Outcomes (CILOs) in Intellectual 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 materials. 5- Students presentations	Written exam -Practical exam -Oral exam - Quizzes - Report assignments - Discussion
b1-	Deal with clinical cases and to know differential diagnosis between surgical affections causing lameness.		
b2-	Evaluate the outcome of the surgery regarding to the cost/ benefit ratio		

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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 anesthesia which suitable for the different surgical affections.
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 surgical operations and site of incision 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 anesthesia which suitable for the different surgical affections.		
c2-	Perform different techniques for surgical operations and site of incision and position according to type of animal.		

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Dr. Aref Abdulmghni Dr. Saleh Alomaisi .	Dr. Abdulraqeb Alshami	Ass. Prof. Dr. Abdu Alraoof Al-Shawkany	Ass. Prof. Dr. Huda Al-Emad

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		materials. 5- Students presentations	

(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:	
D1-	Communicates effectively with Professional colleagues and animal owners and expresses his ideas clearly and objectively.	**d1-**	Work in a team group and Work under pressure and / or contradictory conditions.
D2	Develops his scientific, professional and research capabilities and follow what is emerging in his field of specialization and using computer applications and information and communication technology.	**d2**	Collect of data about different surgical affections and its treatment from the internet and journal.

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 active learning (beer article and discussion in group). 4- Audiovisual aids materials.	Written exam -Practical exam -Oral exam - Quizzes - Report assignments - Discussion
d1- Work in a team group and Work under pressure and / or contradictory conditions.		
d2- Collect of data about different surgical affections and its treatment from the internet and journal.		

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Dr. Aref Abdulmghni Dr. Saleh Alomaisi .	Dr. Abdulraqeb Alshami	Ass. Prof. Dr. Abdu Alraoof Al-Shawkany	Center & Quality Assurance Ass. Prof. Dr. Huda Al-Emad

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		5- Students presentations	

I. Course Content:					

1 – Course Topics/Items:

a – Theoretical Aspect					
Order	Topic List / Units	CILOs (symbols)	Sub-topic List	Number of weeks	Contact hours
1	Introduction & classification of Diagnostic Radiology	a1- a2- b1- b2- c1- c2- d1-d2		1	1
2	Structure X-ray machine	a1- a2- b1- b2- c1- c2- d1-d2	Definition , -Classification	2	1
3	Hazards of X-ray	a1- a2- b1- b2- c1- c2- d1-d2	Definition , -Classification	3	1
4	Plane Radiography	a1- a2- b1- b2- c1- c2- d1-d2	Definition , -Classification	4	1
5	Contrast Radiography	a1- a2- b1- b2- c1- c2- d1-d2	Definition , -Classification	5	1
6	Claw affections	a1- a2- b1- b2- c1- c2- d1-d2	Definition , -Classification	6	1
7	Laminitis	a1- a2- b1- b2- c1- c2- d1-d2	Definition , -Classification	7	1
8	Diagnosis of Lameness	a1- a2- b1- b2- c1- c2- d1-d2	Definition , -Classification	8	1
9	Diagnosis of Lameness	a1- a2- b1- b2- c1- c2- d1-d2	Definition , -Classification	9	1
10	Diagnosis of Lameness	a1- a2- b1- b2- c1- c2- d1-d2	Definition , -Classification	10	1
11	Diagnosis of Lameness	a1- a2- b1- b2- c1- c2- d1-d2	Definition , -Classification	11	1
12	Affections of the hind limb	a1- a2- b1- b2- c1- c2- d1-d2	Definition , -Classification	12	1

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13	Affections of the hind limb	a1- a2- b1- b2- c1- c2- d1-d2	Definition , -Classification	**13**	**1**
14	Affections of the fore limb	a1- a2- b1- b2- c1- c2- d1-d2	Definition , -Classification	**14**	**1**
Number of Weeks /and Units Per Semester				**14**	**14**

b- Training Aspect:

Order	Training Tasks	CILOs (symbols)	Number of weeks	Contact hours
1	Radiology	a1- a2- b1- b2- c1- c2- d1-d2	**1**	**2**
2	Radiology	a1- a2- b1- b2- c1- c2- d1-d2	**1**	**2**
3	Radiology	a1- a2- b1- b2- c1- c2- d1-d2	**1**	**2**
4	Radiology	a1- a2- b1- b2- c1- c2- d1-d2	**1**	**2**
5	Tenetomy of the flexor tendons	a1- a2- b1- b2- c1- c2- d1-d2	**1**	**2**
6	Digit amputation	a1- a2- b1- b2- c1- c2- d1-d2	**1**	**2**
7	Revision	a1- a2- b1- b2- c1- c2- d1-d2	**1**	**2**
8	Neurectomies of the forelimbs	a1- a2- b1- b2- c1- c2- d1-d2	**1**	**2**
9	Neurectomies of the hindlimbs	a1- a2- b1- b2- c1- c2- d1-d2	**1**	**2**
10	Medial pattelar desmotomy	a1- a2- b1- b2- c1- c2- d1-d2	**1**	**2**
11	Medial pattelar desmotomy	a1- a2- b1- b2- c1- c2- d1-d2	**1**	**2**
12	Medial pattelar desmotomy	a1- a2- b1- b2- c1- c2- d1-d2	**1**	**2**
13	Cuneantenectomy	a1- a2- b1- b2- c1- c2- d1-d2	**1**	**2**
14	Cuneantenectomy	a1- a2- b1- b2- c1- c2- d1-d2	**1**	**2**
Number of Weeks /and Units Per Semester			**14**	**28**

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I. 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

II. 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 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
	Total		**100**	**100%**	

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Dr. Aref Abdulmghni	Dr. Abdulraqeb Alshami	Ass. Prof. Dr. Abdu Alraoof	Center & Quality
Dr. Saleh Alomaisi .		Al-Shawkany	Assurance
			Ass. Prof. Dr. Huda Al-Emad

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III.	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

IV.	earning Resource (MLA style or APA style)s:

1- Required Textbook(s) (maximum two)

- Veterinary Anesthesia for 1st Semester, Dept. Staff member 2010
- General Surgery for 2nd Semester, Dept. Staff member 2010
- Department course of veterinary anesthesia.
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2- Recommended Readings and Reference Materials

- Slater (1993): Textbook of Small Animal Surgery, W.B. Saunders.
- Geonnor, G.G. (2005): Dollar's Veterinary Surgery.

3- Essential References

4- Electronic Materials and Web Sites *etc*.

Veterinary surgery8m.com
Veterinary videos.com

5- Other Learning Material:

-

X.	Course Policies:
1	**Class Attendance:** MANDATORY TO ATTEND ALL COURSE LECTURES
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:**

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Dr. Aref Abdulmghni Dr. Saleh Alomaisi .	Dr. Abdulraqeb Alshami	Ass. Prof. Dr. Abdu Alraoof Al-Shawkany	Center & Quality Assurance Ass. Prof. Dr. Huda Al-Emad

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		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:** 1. All devices must be on silent or at least on vibration during lectures/labs 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. 3. Any of type/ form of cheating is not allowed no matter what. **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.

Prepared by Dr. Aref Abdulmghni Dr. Saleh Alomaisi .	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

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Dr. Aref Abdulmghni	Dr. Abdulraqeb Alshami	Ass. Prof. Dr. Abdu Alraoof	Center & Quality
Dr. Saleh Alomaisi .		Al-Shawkany	Assurance
			Ass. Prof. Dr. Huda Al-Emad

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Course Plan of Diagnostic Radiology

X. - Information about Faculty Member Responsible for the Course:							
Name of Faculty Member	Dr-Aref Saleh Mohammed Abdulmughni,	**Office Hours**					
Location & Telephone No.	Dhamar university Mobile: +967774501741	**SAT**	**SUN**	**MON**	**TUE**	**WED**	**THU**
E-mail	areef2000@yahoo.com						

XI. Course Identification and General Information:

1-	**Course Title:**	Diagnostic Radiology				
2-	**Course Number & Code:**	SR484				
3-	**Credit hours:**	**C.H**				**Total**
		Theoretical	**Practical**	**Training**	**Seminar**	
		1	1			2
4-	**Study level/year at which this course is offered:**	Fourth Year - Second Semester				
5-	**Pre –requisite (if any):**	FR1113,ANT232				
6-	**Co –requisite (if any):**	None				
7-	**Program (s) in which the course is offered**	Bachelor of Veterinary Medicine				
8-	**Language of teaching the course:**	English				
9-	**System of Study:**	Regular Semester				
10-	**Mode of delivery:**	Lectures and Practical				
11-	**Location of teaching the course:**	Faculty of Veterinary Medicine Building				

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Dr. Aref Abdulmghni Dr. Saleh Alomaisi .	Dr. Abdulraqeb Alshami	Ass. Prof. Dr. Abdu Alraoof Al-Shawkany	Ass. Prof. Dr. Huda Al-Emad

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II.	Course Description:

The course aimed to provide the student with knowledge and skills in the introduction & classification of Diagnostic Radiology. Identify the general Diagnostic Radiology of different animals species (fractures, bone affections and joint affections,).

II.	Intended learning outcomes (ILOs) of the course:

After completing this course, students will be able to:

a1- Recognize the basic Radiology: (definition, principles, of x-ray
a2 Demonstrates knowledge about different methods of Radiology and suitable technique for different animals
b1- Deal with clinical cases and to know differential diagnosis between surgical affections causing lameness.
b2- Evaluate the outcome of the surgery regarding to the cost/ benefit ratio
c1- Perform different types of anesthesia which suitable for the different surgical affections.
c2- Perform different techniques for surgical operations and site of incision and position according to type of animal.
d1- Work in a team group and Work under pressure and / or contradictory conditions.
d2- Collect of data about different surgical affections and its treatment from the internet and journal.

X.	Course Content:

A – Theoretical Aspect:

Order	Topics List	Week Due	Contact Hours
1	Introduction & classification of Diagnostic Radiology	1	1
2	Structure X-ray machine	2	1

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Dr. Aref Abdulmghni	Dr. Abdulraqeb Alshami	Ass. Prof. Dr. Abdu Alraoof	Center & Quality
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3	Hazards of X-ray	**3**	**1**
4	Plane Radiography	**4**	**1**
5	Contrast Radiography	**5**	**1**
6	Claw affections	**6**	**1**
7	Laminitis	**7**	**1**
8	**Mid-Term Exam**	8	1
9	Diagnosis of Lameness	**9**	**1**
10	Diagnosis of Lameness	**10**	**1**
11	Diagnosis of Lameness	**11**	**1**
12	Diagnosis of Lameness	**12**	**1**
13	Affections of the hind limb	13	1
14	Affections of the hind limb	14	1
15	Affections of the fore limb	15	1
16	**Final Exam**	16	1
Number of Weeks /and Units Per Semester		**16**	**16**

b- Training Aspect:

Order	Training Tasks	Week Due	Contact hours
1	Radiology	**1**	**2**
2	Radiology	**2**	**2**
3	Radiology	**3**	**2**
4	Radiology	**4**	**2**

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Dr. Aref Abdulmghni Dr. Saleh Alomaisi .	Dr. Abdulraqeb Alshami	Ass. Prof. Dr. Abdu Alraoof Al-Shawkany	Ass. Prof. Dr. Huda Al-Emad

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5	Tenetomy of the flexor tendons	5	2
6	Digit amputation	6	2
7	Digit amputation	7	2
8	**Mid-Term Exam**	8	2
9	Neurectomies of the forelimbs	9	2
10	Neurectomies of the hindlimbs	10	2
11	Medial pattelar desmotomy	11	2
12	Medial pattelar desmotomy	12	2
13	Medial pattelar desmotomy	13	2
14	Cuneantenectomy	14	2
15	Cuneantenectomy	15	2
16	**Final Exam**	16	2
Number of Weeks /and Units Per Semester		**16**	**32**

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Dr. Aref Abdulmghni	Dr. Abdulraqeb Alshami	Ass. Prof. Dr. Abdu Alraoof	Center & Quality
Dr. Saleh Alomaisi .		Al-Shawkany	Assurance
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XI.   Teaching strategies of the course:

1-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

II.   Assessment Methods:

No.	Type of Assessment Tasks	Week Due	Mark	Proportion of Final Assessment
1	Participation and 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%
	Total		100	100%

V. Learning Resource (MLA style or APA style)s:

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Dr. Aref Abdulmghni Dr. Saleh Alomaisi .	Dr. Abdulraqeb Alshami	Ass. Prof. Dr. Abdu Alraoof Al-Shawkany	Center & Quality Assurance Ass. Prof. Dr. Huda Al-Emad

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6-	**Required Textbook(s) (maximum two)**
	• Veterinary Anesthesia for 1st Semester, Dept. Staff member 2010 • General Surgery for 2nd Semester, Dept. Staff member 2010 • Department course of veterinary anesthesia.
7-	**Recommended Readings and Reference Materials**
	• Slater (1993): Textbook of Small Animal Surgery, W.B. Saunders. • Geonnor, G.G. (2005): Dollar,s Veterinary Surgery.
8-	**Essential References**
9-	**Electronic Materials and Web Sites *etc*.**
	Veterinary surgery8m.com Veterinary videos.com
10-	**Other Learning Material:**
	-

XI.	**Course Policies:**
1	**Class Attendance:** **MANDATORY TO ATTEND ALL COURSE LECTURES**
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
5	**Cheating:** Not tolerated and may lead to **EXPELLING** the student from the program
6	**Plagiarism:**

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	Not tolerated **AT ALL** and may lead to **EXPELLING** the student from the program
7	**Other policies:** 5. All devices must be on silent or at least on vibration during lectures/labs 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. 7. Any of type/ form of cheating is not allowed no matter what. **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.

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