



## Course Specification of Zoonotic Diseases

I. Course Identification and General Information:						
1	Course Title:	Zoonotic Diseases				
2	Course Number & Code:	IM567				
3	Credit hours:	C.H				Total
		Theoretical	Practical	Training	Seminar	
		2	1	0	0	3
4	Study level/ semester at which this course is offered:	First Semester of Fifth Year				
5	Pre –requisite (if any):	IM462				
6	Co –requisite (if any):	None				
7	Program (s) in which the course is offered:	Veterinary Medicine				
8	Language of teaching the course:	English				
9	Location of teaching the course:	Faculty of Veterinary Medicine				
10	Prepared by:	Dr. Hussein Abdulhadi Nasser Al-Wadei				

Prepared by  
 Dr. Abduraqeb Alshami

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 Dr. Abduraqeb Alshami

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Prof. Dr. Al-Qassim Mohammed Abbas



11	Date of approval:	
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## II. Course description:

Zoonotic diseases are diseases affecting human populations in which one or more animals play a significant role in their causation or transmission. In this course, means of prevention and control, epidemiology, available diagnostics, available treatments that are associated with human and animal regulations to each disease will be discussed. Humans and animals have been sharing their pathogens and diseases that have existed for many years until present day.

Students will learn concepts related to animal disease traceability, monitoring and surveillance of diseases, and methods to prevent and control zoonotic diseases from a health perspective. Students will study the impact of rodent and arthropod vectors of disease as well as endemic and emerging diseases. Identification, surveillance and control methods will be examined with attention paid to pesticide use, regulation and safety measures

## 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.**

<b>Program Intended Learning Outcomes (Sub- PILOs) in:</b>  <b>Knowledge and Understanding</b>	<b>Course Intended Learning Outcomes (CILOs) in:</b>  <b>Knowledge and Understanding</b>
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After completing this program, students will be able to:		After completing this course, students will be able to:	
<b>A1-</b>	Demonstrate a sound knowledge and understanding of concepts and principles of general culture, basic science, and that support veterinary medicine.	<b>a1-</b>	Define, discuss, provide, and outline zoonotic diseases and to describe their importance in public health.
<b>A2-</b>	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.	<b>a2-</b>	Show understanding the zoonotic disease processes according to their classification, transmission, infections whether it is systemic, enteric or viral, and trematode infestation.

**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
<b>completing this course, students will be able to:</b>		<ul style="list-style-type: none"> <li>• Lectures</li> <li>• Dialogue and discussion</li> <li>• Practical application (Labs)</li> <li>• Scientific trips</li> <li>• Field and clinical training</li> <li>• Simulation and demos</li> <li>• Brainstorming</li> <li>• Self education</li> </ul>	The written test (Monthly, Midterm, Final) Short tests (Quizzes) Oral tests Practical tests (Lab Test) Evaluation of reports Assignments (Homeworks) Projects Presentations
<b>a1-</b>	Define, discuss, provide, and outline zoonotic diseases and to describe their importance in public health.		
<b>a2-</b>	Show understanding the zoonotic disease processes according to their classification, transmission, infections whether it is systemic, enteric or viral, and trematode infestation.		

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**(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:	
<b>B1-</b>	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.	<b>b1-</b>	Recognize the zoonotic potential of presented diseases.
<b>B2-</b>	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.	<b>b2-</b>	Describe the characteristics of a community zoonotic control program and the steps in planning and implementing a program and conducting a survey analytical result.

**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:	<ul style="list-style-type: none"> <li>Dialogue and discussion</li> </ul>	<ul style="list-style-type: none"> <li>The written test</li> </ul>

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<b>b1-</b>	Recognize the zoonotic potential of presented diseases.	<ul style="list-style-type: none"> <li>• Lectures</li> <li>• Practical application (Labs)</li> <li>• Problem Solving</li> <li>• Cooperative learning and working groups</li> <li>• Scientific trips</li> <li>• Field and clinical training</li> <li>• Simulation and demos</li> <li>• Research costs and projects</li> </ul>	<ul style="list-style-type: none"> <li>▪ Oral tests</li> <li>▪ Practical tests</li> <li>▪ Note the performance</li> <li>▪ Achievement file (Accomplishments)</li> <li>▪ Evaluation of reports</li> <li>▪ Evaluating student presentations</li> </ul>
<b>b2-</b>	Describe the characteristics of a community zoonotic control program and the steps in planning and implementing a program and conducting a survey analytical result.		

**(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:	
<b>C2-</b>	Practices practical, diagnostic, clinical and research skills, including the collection of samples in various fields of veterinary medicine and related sciences, in	<b>c1-</b>	Identify the major species of animals that are important from a public health perspective and

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	a safe and effective manner, considering the ethics of the profession.		describe the geographic range and distribution patterns for each
<b>C3-</b>	Reads the results of laboratory investigations and diagnostic scans and writes reports and prescriptions for all common cases in a proper way.	<b>c2-</b>	Describe the route or routes of transmission of major zoonotic diseases, list significant public health success

**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
<b>After completing this course, students will be able to:</b>		<ul style="list-style-type: none"> <li>• Practical application (Labs)</li> <li>• Problem Solving</li> <li>• Cooperative learning and working groups</li> <li>• Scientific trips</li> <li>• Case Study</li> <li>• Field and clinical training</li> <li>• Simulation and practical presentations</li> <li>• Research costs and projects</li> </ul>	<ul style="list-style-type: none"> <li>▪ Practical tests</li> <li>▪ Note the performance</li> <li>▪ The written test</li> <li>▪ Oral tests</li> <li>▪ Achievement file</li> <li>▪ Evaluation of reports</li> <li>▪ Evaluating student presentations</li> </ul>
<b>c1-</b>	Identify the major species of animals that are important from a public health perspective and describe the geographic range and distribution patterns for each		
<b>c2-</b>	Describe the route or routes of transmission of major zoonotic diseases, list significant public health success		

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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>D1-</b>	Communicates effectively with other fellow professions and animal owners and expresses his ideas clearly and objectively.	<b>d1-</b>	Describe in general terms the cause, signs, symptoms, and importance of either zoonotic or vector borne diseases of public health significance such as regionally, nationally, or internationally.
<b>D2</b>	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.	<b>d2</b>	Summarize the differences, in frequency and risk, regarding zoonotic diseases in developed vs. developing countries and the reasons for these differences

**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:		<ul style="list-style-type: none"> <li>• Dialogue and discussion</li> <li>• Cooperative learning and working groups</li> <li>• Scientific trips</li> </ul>	<ul style="list-style-type: none"> <li>▪ Achievement file</li> <li>▪ Evaluation of reports</li> <li>▪ Evaluating student presentations.</li> <li>▪ Note the performance.</li> </ul>
<b>d1-</b>	Describe in general terms the cause, signs, symptoms, and importance of either zoonotic or		

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	vector borne diseases of public health significance such as regionally, nationally, or internationally.	<ul style="list-style-type: none"> <li>• Research costs and projects</li> <li>• Self education</li> <li>• Demo and practical presentations</li> <li>• Problem Solving</li> </ul>	<ul style="list-style-type: none"> <li>▪ Practical tests. (Lab Test)</li> </ul>
<b>d2-</b>	Summarize the differences, in frequency and risk, regarding zoonotic diseases in developed vs. developing countries and the reasons for these differences		

<b>IV. Course Content:</b>					
<b>1 – Course Topics/Items:</b>					
<b>a – Theoretical Aspect</b>					
Order	Topic List / Units	CILOs (symbols)	Sub-topic List	Number of weeks	Contact hours
1	Reading Syllabus & Knowing each other Introduction to Infectious Zoonotic Diseases	a1, a2		1	2
2	Principles of Zoonoses	a1, a2		1	2
3	Roles of domesticated pets, wild animals, cold blooded animals, birds, pet animals and laboratory animals in	a1, a2, b1,b2, c1, c2		1	2

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	the transmission of Zoonotic Diseases				
4	Zoonotic Viral Diseases	a1, a2, b1,b2, c1, c2	<ol style="list-style-type: none"> <li>1. Rabies</li> <li>2. AIDS</li> <li>3. Encephalitides</li> <li>4. Influenza</li> <li>5. Hantavirus</li> <li>6. Monkeypox</li> <li>7. Foot &amp; Mouth disease</li> <li>8. Newcastle disease</li> </ol>	1	2
5	Zoonotic Bacterial Diseases	a1, a2, b1,b2, c1, c2	<ol style="list-style-type: none"> <li>1. Rat-bite fever</li> <li>2. Staphylococcosis</li> <li>3. Cat-Scratch disease</li> <li>4. Anthrax</li> </ol>	1	2
6	Zoonotic Bacterial Diseases Continued (2)	a1, a2, b1,b2, c1, c2	<ol style="list-style-type: none"> <li>1. Listeriosis</li> <li>2. Campylobacteriosis</li> <li>3. Salmonellosis</li> <li>4. Botulism</li> </ol>	1	2
7	Zoonotic Bacterial Diseases Continued (3)	a1, a2, b1,b2, c1, c2	<ol style="list-style-type: none"> <li>1. Tuberculosis</li> <li>2. Brucellosis</li> <li>3. Pasteruellosis</li> <li>4. Vibriosis</li> </ol>	1	2
8	Zoonotic Bacterial Diseases Continued (4)	a1, a2, b1,b2, c1, c2	<p>Vector-borne Diseases:</p> <ol style="list-style-type: none"> <li>1. Lyme disease</li> <li>2. Rocky Mountain Spotted Fever</li> </ol>	2	4

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			3. Ehrlichiosis 4. Leshmaniasis 5. Plaque 6. Tularemia		
9	Zoonotic Internal Parasitic Diseases	a1, a2, b1,b2, c1, c2	1. Roundworm Infections 2. Tapeworm Infections 3. Trichinosis 4. Giardiasis 5. Toxoplasmosis 6. Cryptosporidiosis	2	4
10	Zoonotic External Parasites Diseases	a1, a2, b1,b2, c1, c2	1. Arthropod Infestations 2. Dermatomycosis	1	2
11	Zoonotic Fungal and Prion Disease	a1, a2, b1,b2, c1, c2	1. Bovine Spongiform 2. Encephalopathy 3. Chronic Wasting disease 4. Scrapie	1	2
12	Rickettsial Diseases	a1, a2, b1,b2, c1, c2	1. Q-fever 2. Endemic typhus fever	1	2
<b>Number of Weeks /and Units Per Semester</b>				<b>14</b>	<b>28</b>

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<b>b- Training Aspect:</b>				
Order	Training Tasks	CILOs (symbols)	Number of weeks	Contact hours
1	Syllabus Reading & Laboratory Tour	a1, a2, b1,b2, c1, c2	1	1
2	Collection of samples for diagnostic bacterial zoonoses	a1, a2, b1,b2, c1, c2	1	1
3	Collection of samples for diagnostic viral zoonoses	a1, a2, b1,b2, c1, c2	1	1
4	Collection of samples of parasitic zoonoses	a1, a2, b1,b2, c1, c2	1	1
5	<b>First Practical Exam</b>		1	1
6	Collection of tissues, lesions, organs for histopathological diagnosis	a1, a2, b1,b2, c1, c2	1	1
7	Labeling, packing and transport of zoonotic samplings	a1, a2, b1,b2, c1, c2	1	1
8	<b>Midterm Exam</b>	a1, a2, b1,b2, c1, c2	1	1
9	Rapid plate agglutination for diagnosis of Brucellosis	a1, a2, b1,b2, c1, c2	1	1
10	Collection of faeces, urine, eggs, meat and necropsy materials for diagnosis of Salmonellosis	a1, a2, b1,b2, c1, c2	1	1
11	Dark field microscopic examination for Leptospirosis diagnosis	a1, a2, b1,b2, c1, c2	1	1

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12	Polychrome methylene blue staining for Anthrax diagnosis	a1, a2, b1,b2, c1, c2	1	1
13	Acid-fast staining for diagnosis of Tuberculosis	a1, a2, b1,b2, c1, c2	1	1
14	Fluorescent Antibody Test for Rabies Diagnosis	a1, a2, b1,b2, c1, c2	1	1
<b>Number of Weeks /and Units Per Semester</b>			<b>14</b>	<b>14</b>

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

- Lectures
- Group discussions
- Literature Review
- Brainstorming
- Practical Seminars
- Individual assignments

**3-Assessment Methods:**

- The written test
- Short tests (Quizzes)
- Oral tests
- Evaluation of reports
- Assignments (Homeworks)
- Projects
- Presentations

**Grading Scale:**

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

### 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	2-14	10	10%	a-d
2	Mid-semester exam	8	10	10%	a-d
3	Mid-Term Practical Exam	8	10	10%	a-d
4	Final Practical Exam	16	10	10%	a-d
5	Final Oral Exam	16	5	5%	a-d
6	Final Written Exam	16	55	55%	a-d
<b>Total</b>			<b>100</b>	<b>100%</b>	

### VII. Students' Support:

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

<b>VIII. Learning Resource (MLA style or APA style)S:</b>	
<b>1- Required Textbook(s) ( maximum two )</b>	
	<ol style="list-style-type: none"> <li>Palmer et al. Zoonoses Oxford Textbook of Zoonoses: Biology, Clinical Practice, and Public Health Control</li> <li>Zoonoses and communicable diseases common to man and animals. Vol.1-3. PAHO</li> <li>Veterinary Medicine by Blood and Henderson and Radostits. Fifth Ed.</li> <li>Infectious Disease of Domestic Animal</li> <li>Oxford Handbook of Tropical Medicine edited by Andrew Brent, Robert Davidson, and Anna Seale. Fourth Ed. 2014</li> </ol>
<b>Recommended Readings and Reference Materials</b>	
	1-
<b>Essential References</b>	
<b>Electronic Materials and Web Sites etc.</b>	
	<p><a href="http://ecoursesonline.iasri.res.in/course/view.php?id=356">http://ecoursesonline.iasri.res.in/course/view.php?id=356</a></p> <p>Students are free to search online for any available course materials related to the course subjects and taught lectures in the class.</p>

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<b>Other Learning Material:</b>	

<b>X. Course Policies:</b>	
<b>1</b>	<p><b>Class Attendance:</b></p> <p>MANDATORY TO ATTEND ALL COURSE LECTURES AND LABS</p>
<b>2</b>	<p><b>Tardiness:</b></p> <p>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></p> <p>Attendance is mandatory; absence is accepted with valid excuse. Students must be on time; tardiness is not permissible</p>
<b>4</b>	<p><b>Assignments &amp; Projects:</b></p> <p>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></p> <p>Not tolerated and may lead to <b>EXPELLING</b> the student from the program</p>
<b>6</b>	<p><b>Plagiarism:</b></p>

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	Not tolerated <b>AT ALL</b> and may lead to <b>EXPELLING</b> the student from the program
	<b>Other policies:</b>  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.

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## Course Plan of Zoonotic Diseases

X. - Information about Faculty Member Responsible for the Course:							
Name of Faculty Member	Dr. Hussein Abdulhadi Al-Wadei	Office Hours					
Location & Telephone No.	Faculty of Veterinary Medicine Building	SAT	SUN	MON	TUE	WED	THU
E-mail	haalwadei@gmail.com	8am 2pm	8am 2pm	8am 2pm	8am 2pm	8am 2pm	

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KI. Course Identification and General Information:					
1	Course Title:	Zoonotic Diseases			
2	Course Number & Code:	IM567			
3	Credit hours:	C.H			Total
		Th.	Seminar	Pr.	
		2	-	1	-
4	Study level/year at which this course is offered:	First Semester of Fifth Year			
5	Pre –requisite (if any):	IM4662			
6	Co –requisite (if any):	None			
7	Program (s) in which the course is offered	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			

**II. Course Description:**  
 Zoonotic diseases are diseases affecting human populations in which one or more animals play a significant role in their causation or transmission. In this course, means of prevention and control, epidemiology, available diagnostics, available treatments that are associated with human and animal regulations to each disease will be

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discussed. Humans and animals have been sharing their pathogens and diseases that have existed for many years until present day.

Students will learn concepts related to animal disease traceability, monitoring and surveillance of diseases, and methods to prevent and control zoonotic diseases from a health perspective. Students will study the impact of rodent and arthropod vectors of disease as well as endemic and emerging diseases. Identification, surveillance and control methods will be examined with attention paid to pesticide use, regulation and safety measures

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

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After completing this course, students will be able to:

a1- Define, discuss, provide, and outline zoonotic diseases and to describe their importance in public health.

a2- Show understanding the zoonotic disease processes according to their classification, transmission, infections whether it is systemic, enteric or viral, and trematode infestation.

b1- Recognize and understand the zoonotic potential of presented diseases.

b2- Describe the characteristics of a community zoonotic control program and the steps in planning and implementing a program and conducting a survey analytical result.

c1- Identify the major species of animals that are important from a public health perspective and describe the geographic range and distribution patterns for each

c2- Describe the route or routes of transmission of major zoonotic diseases, list significant public health success

d1- Describe in general terms the cause, signs, symptoms, and importance of either zoonotic or vector borne diseases of public health significance such as regionally, nationally, or internationally.

d2- Summarize the differences, in frequency and risk, regarding zoonotic diseases in developed vs. developing countries and the reasons for these differences

## V. Course Content:

### A – Theoretical Aspect:

Order	Topics List	Week Due	Contact Hours
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1	Reading Syllabus & Knowing each other Introduction to Infectious Zoonotic Diseases	1	2
2	Principles of Zoonoses	2	2
3	Roles of domesticated pets, wild animals, cold blooded animals, birds, pet animals and laboratory animals in the transmission of Zoonotic Diseases	3	2
4	Zoonotic Viral Diseases (Rabies, AIDS, Influenza, etc.)	4	2
5	Zoonotic Bacterial Diseases (Rate-bite fever, Cat-Scratch disease, etc.)	5	2
6	Zoonotic Bacterial Diseases Continued (2) (Salmonellosis Botulism, etc.)	6	2
8	Zoonotic Bacterial Diseases Continued (3) (TB, Brucellosis, etc.)	7	2
9	<b>Midterm Exam</b>	8	2
10	Zoonotic Bacterial Diseases Continued (4) (Vector-borne diseases)	9,10	4
11	Zoonotic Internal Parasitic Diseases (Roundworm and Tapeworm Infections, etc.)	11	2
12	Zoonotic External Parasites Diseases	12	2
13	Zoonotic Fungal and Prion Disease (Scrapie, etc.)	13	2
14	Rickettsial Diseases (Q-fever, etc.)	14	2

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15	Summary of bacterial, fungal, viral, mycotic, parasitic, rickettsial diseases transmitted to man from cattle, sheep, horse, dogs, cats, rodents, and birds	15	2
16	<b>Final Exam</b>	16	2
<b>Number of Weeks /and Units Per Semester</b>		<b>16</b>	<b>32</b>

<b>b- Training Aspect:</b>			
Order	Training Tasks	Week Due	Contact hours
1	Syllabus Reading & Laboratory Tour	1	1
2	Collection of samples for diagnostic bacterial zoonoses	2	1
3	Collection of samples for diagnostic viral zoonoses	3	1
4	Collection of samples of parasitic zoonoses	4	1
5	<b>First Practical Exam</b>	5	1
6	Collection of tissues, lesions, organs for histopathological diagnosis	6	1
7	Labeling, packing and transport of zoonotic samplings	7	1
8	<b>Midterm Exam</b>	8	1
9	Rapid plate agglutination for diagnosis of Brucellosis	9	1
10	Collection of faeces, urine, eggs, meat and necropsy materials for diagnosis of Salmonellosis	10	1

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11	Dark field microscopic examination for Leptospirosis diagnosis	11	1
12	Polychrome methylene blue staining for Anthrax diagnosis	12	1
13	Acid-fast staining for diagnosis of Tuberculosis	13	1
14	Fluorescent Antibody Test for Rabies Diagnosis	14	1
15	<b>Review</b>	15	1
16	<b>Final Exam</b>	16	1
<b>Number of Weeks /and Units Per Semester</b>		<b>16</b>	<b>16</b>

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

- Lectures
- Group discussions
- Literature Review
- Brainstorming
- Practical Seminars
- Individual assignments

#### VI. Assessment Methods:

- The written test
- Short tests (Quizzes)
- Oral tests
- Evaluation of reports
- Assignments (Homeworks)
- Projects
- Presentations

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## 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).

### **N.B.:**

1. Any student who pass the 25% of the class attendance will not be allowed for the final exam.
2. Students are advised to study hard in the class during the semester.
3. Retaking an exam is not allowed without valid excuse.

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

## II. Learning Resources:

1.

**1- Required Textbook(s) ( maximum two ).**

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	<ol style="list-style-type: none"> <li>1. Palmer et al. Zoonoses Oxford Textbook of Zoonoses: Biology, Clinical Practice, and Public Health Control</li> <li>2. Zoonoses and communicable diseases common to man and animals. Vol.1-3. PAHO</li> <li>3. Veterinary Medicine by Blood and Henderson and Radostits. Fifth Ed.</li> <li>4. Infectious Disease of Domestic Animal</li> <li>5. Oxford Handbook of Tropical Medicine edited by Andrew Brent, Robert Davidson, and Anna Seale. Fourth Ed. 2014</li> </ol>
<b>2- Essential References.</b>	
<b>3- Electronic Materials and Web Sites etc.</b>	
<a href="http://ecoursesonline.iasri.res.in/course/view.php?id=356">http://ecoursesonline.iasri.res.in/course/view.php?id=356</a>	

<b>II. Course Policies:</b>	
<b>1</b>	<b>Class Attendance:</b> MANDATORY TO ATTEND ALL COURSE LECTURES
<b>2</b>	<b>Tardy:</b> Not allowed at all. Students must be in class 10 minutes prior to the beginning of lectures
<b>3</b>	<b>Exam Attendance/Punctuality:</b>

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	Attendance is mandatory; absence is accepted with valid excuse. Students must be on time; tardiness is not permissible.
4	<p><b>Assignments &amp; Projects:</b></p> <p>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>
5	<p><b>Cheating:</b></p> <p>Not tolerated and may lead to <b>EXPELLING</b> the student from the program</p>
6	<p><b>Plagiarism:</b></p> <p>Not tolerated <b>AT ALL</b> and may lead to <b>EXPELLING</b> the student from the program</p>
7	<p>Other policies:</p> <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, practical, oral) we just 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> <li>4.Maintain silence during lectures and disturbance is not allowed.</li> </ol>

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