



**Ministry of Higher education and Scientific Research  
University of Basrah  
College of Veterinary Medicine**



- **Course Level:** Fourth-Year Level
- **Course Name:** Medicine –I / 3 hours
- **Semester:** first
- **Units:** 3

**Course Objectives**

**Upon completion of this course, the student should be familiarized with:**

- Student should be able to know the basic principles of internal diseases in animal species such as cattle , horses , sheep , goat and small animals
- Identify the diagnostic principles and treatment

**Course Contents**

Course Content		
week	Topics	Hours
	<b>Subject</b>	
1	Introduction	2
2	General systemic status	4
3-4	Digestive system: principles of alimentary tract dysfunctions	4
5	Manifestations of alimentary tract dysfunctions	4
6-9	Diseases of buccal cavity and associated organs : stomatitis ,pharyngeal obstruction , pharyngeal paralysis .esophagitis ,esophageal obstruction	12
10-12	Diseases of forestomach in ruminants	10
13-14	Diseases of stomach and intestine	5
15	Equine colic	3
	Exam.	1
<b>Total</b>		45

**Mode of Assessment**

Assessment	Score	Period
First Exam	15	5-6 <sup>th</sup> weeks
Second Exam	15	10-11 <sup>th</sup> weeks
Assignment, Projects, Quizzes, Tutorial	10	2 <sup>nd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> , 5 <sup>th</sup> , and 7 <sup>th</sup> , 8 <sup>th</sup> , 9 <sup>th</sup> , 10 <sup>th</sup> , 11 <sup>th</sup> .
Final Exam	60	After the 16 <sup>th</sup> .

**Textbooks and Recommended References**

- Radostits et al (2007) Veterinary medicine. 10<sup>th</sup> Ed
- Anderws (2004) Bovine medicine
- Differential Diagnosis in Small Animal Medicine By Alex Gough 2007
- Color atlas of diseases and disorders in cattle by. Blowey, Roger W and Weaver, A. David 2011 3<sup>rd</sup> Ed



Ministry of Higher education and Scientific Research  
University of Basrah  
College of Veterinary Medicine



- **Course Level:** Fourth-Year Level
- **Course Name:** Medicine –I / 3 hours
- **Semester:** Second
- **Units:** 3

**Course Objectives**

**Upon completion of this course, the student should be familiarized with:**

- Student should be able to know the basic principles of internal diseases in animal species such as cattle , horses , sheep , goat and small animals
- Identify the diagnostic principles and treatment

**Course Contents**

Course Content		
week	Topics	Hours
	<b>Subject</b>	
1-5	Diseases of respiratory system	15
6-9	Diseases of liver	10
10-12	Diseases of nervous system	10
13-15	Disease of skin and Exam	10
Total		45

**Mode of Assessment**

Assessment	Score	Period
First Exam	15	5-6 <sup>th</sup> weeks
Second Exam	15	10-11 <sup>th</sup> weeks
Assignment,Projects, Quizzes, Tutorial	10	2 <sup>nd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> , 5 <sup>th</sup> , and 7 <sup>th</sup> , 8 <sup>th</sup> , 9 <sup>th</sup> , 10 <sup>th</sup> , 11 <sup>th</sup> .
Final Exam	60	After the 16 <sup>th</sup> .

**Textbooks and Recommended References**

- Radostits et al (2007) Veterinary medicine. 10<sup>th</sup> Ed
- Anderws (2004) Bovine medicine
- Differential Diagnosis in Small Animal Medicine By Alex Gough 2007
- Color atlas of diseases and disorders in cattle by. Blowey, Roger W and Weaver, A. David 2011 3<sup>rd</sup> Ed



**Ministry of Higher education and Scientific Research**  
**University of Basrah**  
**College of Veterinary Medicine**



- **Course Level:** Fourth Year Level
- **Course Name:** Theoretical surgery / 2 hours
- **Course Name:** Practical surgery / 2 hours
- **Semester:** First
- **Units:** 3

**Course Objectives**

**Upon completion of this course, the student should be familiarized with:**

1. To provide students with important knowledge about surgery and important to treatment the animals.
2. To make students understand different surgical cases .

**Course Contents**

Course Content		
week	Topics	Hours
	<b>Theoretical Subject</b>	
1	Introduction & classification of surgery : (definition, history , principle of Halsted , indication of surgery )	2
2	Sterilization : (physical ,chemical , modern technique for sterilization )	3
3	Shock & fluid therapy	3
4	Wounds	6
5	Hemorrhage & hemostasis	3
6	Abscess .hematoma , cysts	2
7	Fistula ,sinus , ulcer , gangrene	3
8	Tumor , Burn	3
9	Radiology: (definition, principles, of x-ray, properties of x-ray ,types of x-ray machine, factors affect s effect on x-ray production )	6
10	Contrast radiology	3
11	Protection of x-ray & hazards	2
12	Modern diagnostic aids : (CT. Scan , MRI , U/S , digital x-ray , Gamma camera )	3
13	Fractures : (definition , etiology , classification , treatment , fractures healing , complications )	6
Total		45

**Course Contents**

Course Content		
week	Topics	Hours
	<b>Practical Subject</b>	
1	Introduction to surgical theater	2
2	Sterilization	4
3	Surgical instruments	4



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4	Pre-operative preparation	4
5	Suture & ligature : (suture materials )	4
6	Suture & ligature : (suture patterns )	4
7	x-ray	4
8	Fractures	4
Total		<b>30</b>

**Mode of Assessment**

Assessment	Score	Period
First Exam	10	10-11 <sup>th</sup> weeks
Second Exam	10	10-11 <sup>th</sup> weeks
Practical Exam	10	10-11 <sup>th</sup> weeks
Assignment, Projects, Quizzes, Tutorial	10	2 <sup>nd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> , 5 <sup>th</sup> , and 7 <sup>th</sup> , 8 <sup>th</sup> , 9 <sup>th</sup> , 10 <sup>th</sup> , 11 <sup>th</sup> .
Final Exam	60	After the 16 <sup>th</sup> .

**Textbooks and Recommended References**

- 1- small animal surgery (Theresa Fossum)
- 2-current technique in small animal surgery (fubini and Duchrame)
- 3-handbook of veterinary anesthesia (Muir)
- 4-textbook of veterinary radiology (Thrall)



**Ministry of Higher education and Scientific Research  
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- **Course Level:** Fourth Year Level
- **Course Name:** Theoretical surgery / 2 hours
- **Course Name:** Practical surgery / 2 hours
- **Semester:** second
- **Units:** 3

**Course Objectives**

**Upon completion of this course, the student should be familiarized with:**

- 1.To provide students with important knowledge about surgery and important to treatment the animals.
- 2.To make students understand different surgical cases .

**Course Contents**

Course Content		
week	Topics	Hours
	<b>Theoretical Subject</b>	
1	Anesthesia ( detention , & terms in anesthesia)	2
2	Introduction of anesthesia , factors affecting anesthesia	2
3	Pre-anesthesia	6
4	Muscle relaxant	3
5	Local anesthesia	4
6	General anesthesia	9
7	Anesthetic accidents	2
8	: Lameness definition , classification ,causes , affection of hoof ,affection of ) ( tendon, affection of ligament ,affection of joint ,laminitis	14
9	Laser surgery	1
10	Endoscopic & laparoscopic surgery	2
Total		45

**Course Contents**

Course Content		
week	Topics	Hours
1	<b>Practical subjects</b>	8
2	Local anesthesia	6
3	General anesthesia	4
4	Intra- articular Injection	4
5	Tendon surgery	4
6	Laser & endoscopic surgery	4
7	Docking & dehorning	4
Total		34



### Mode of Assessment

Assessment	Score	Period
First Exam	10	10-11 <sup>th</sup> weeks
Second Exam	10	10-11 <sup>th</sup> weeks
Practical Exam	10	10-11 <sup>th</sup> weeks
Assignment, Projects, Quizzes, Tutorial	10	2 <sup>nd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> , 5 <sup>th</sup> , and 7 <sup>th</sup> , 8 <sup>th</sup> , 9 <sup>th</sup> , 10 <sup>th</sup> , 11 <sup>th</sup> .
Final Exam	60	After the 16 <sup>th</sup> .

### Textbooks and Recommended References

- 1- small animal surgery (Theresa Fossum)
- 2-current technique in small animal surgery (Fubini and Duchrame)
- 3-handbook of veterinary anesthesia (Muir)
- 4-textbook of veterinary radiology (Thrall)



**Ministry of Higher education and Scientific Research**  
**University of Basrah**  
**College of Veterinary Medicine**



- **Course Level:** Fourth—Year Level.
- **Course Name:** Theoretical Poultry Diseases /2 hours
- **Course Name:** Practical Poultry Diseases /2 hours
- **Semester:** First
- **Units:** 3

**Course Objectives**

**Upon completion of this course, the student should be provide with:**

3. Important knowledge about : Nutritional Deficiency and Metabolic Diseases of Poultry.
4. Important knowledge about: Bacterial and Mycoplasmas Diseases.
5. Important information about : Fungal Diseases.
6. Important information about : Parasitic Diseases.
7. Significant knowledge about methods of Diagnosis, Differential Diagnosis, Treatment, and Prevention of diseases.

**Course Contents**

<b>Course Content</b>		
<b>week</b>	<b>Topics</b>	<b>Hours</b>
	<b>Theoretical Subject</b>	
1	1.Introduction to Poultry Diseases & Relation to Poultry Industry. 2.Vitamin A Deficiency: Signs, Lesions, Diagnosis, Treatment.	2
2 and 3	Vitamin B , Vitamin D, Vitamin E Deficiency: Signs , Lesions, Diagnosis. Differential Diagnosis, Treatment.	4
4 and 5	Manganes Deficiency, Gout, Ascites. Definition : Signs, Lesions, Diagnosis, Differential Diagnosis, Treatment, Prevention.	4
6	Avian Salmonellosis: Definition, Etiology, Methods of Spread ,Signs, Lesions, Diagnosis, Differential Diagnosis, Treatment, Control.	2
7	Infectious Coryza, Fowl Cholera: Definition, Etiology, Methods of Spread, Signs, Lesions, Diagnosis, Differential Diagnosis, Treatment, Control.	3
8 and 9	Avian Colibacillosis: Definition ,Etiology, Types, Signs ,Lesions, Diagnosis Differential Diagnosis, Treatment, Prevention .	3
10 and 11	Avian Mycoplasmosis :Definition, Etiology, Strains, Methods of Spread, Signs, Lesions. Diagnosis, Differential Diagnosis, Treatment, Control.	3
12 and 13	1.Diseases Caused By Anaerobic Spore-forming Bacteria: Types , Etiology, Signs, Lesions, Diagnosis, Differential Diagnosis, Treatment, Control. 2. Spirochetosis.	4
14	Fungal Diseases: Types, Etiology, Definition, Diagnosis, Treatment, Control.	2
15	Parasitic Diseases: External Parasites Internal Parasites, Protozoa.	3
<b>Total</b>		<b>30</b>



### Course Contents

Course Content		
week	Topics	Hours
	<b>Practical Subject</b>	
1	Safety in the Poultry Disease Laboratory. Diseases and poultry husbandry.	2
2	Poultry House Requirements and their effect on poultry health.	2
3	Methods of killing birds for necropsy, and carcass disposal.	2
4 and 5	Necropsy Technique.	4
6 and 7	Disease Prevention and Control.	4
8 and 9	Biosecurity.	4
10	Preparation of Technical Report.	2
11	Blood sampling.	2
12	Diagnosis of Nutritional Deficiency Diseases.	2
13	Diagnosis of Avian Colibacillosis.	2
14	Avian Salmonellosis.	2
15	Infectious Coryza, Fowl Cholera, Spirochetosis.	2
Total		30

### Mode of Assessment

Assessment	Score	Period
First Exam	10	10-11 <sup>th</sup> weeks
Second Exam	10	10-11 <sup>th</sup> weeks
Practical Exam	10	10-11 <sup>th</sup> weeks
Assignment, Projects, Quizzes, Tutorial	10	2 <sup>nd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> , 5 <sup>th</sup> , and 7 <sup>th</sup> , 8 <sup>th</sup> , 9 <sup>th</sup> , 10 <sup>th</sup> , 11 <sup>th</sup> .
Final Exam	60	After the 16 <sup>th</sup> .

### Textbooks and Recommended References

- David E. Swayne, John R. Glisson, Larry R. McDougald, Lisa K. Nolan, David L. Suarez, and Venugopal Nar. Disease of Poultry, 13<sup>th</sup> EDITION. WILEY-BLACKWELL.
- امراض الدواجن . الدكتور فؤاد الشبخلي.
- التشخيص السريري لامراض الدواجن: د. احمد ماجد العطار و د. تحسين عبد العزيز





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- **Course Level:** Fourth—Year Level.
- **Course Name:** Theoretical Poultry Diseases /2 hours
- **Course Name:** Practical Poultry Diseases /2 hours
- **Semester:** Second
- **Units:** 3

**Course Objectives**

**Upon completion of this course, the student should be familiarized with:**

An overview on important and recurrent Viral Diseases, Diagnosis, Differential Diagnosis, Prevention Control, and Vaccination Programs of these diseases.

**Course Contents**

Course Content		
week	Topics	Hours
	<b>Theoretical Subject</b>	
1	Newcastle Disease: Definition ,Etiology, Classification ,Signs, Lesions, Diagnosis, Differential Diagnosis, Prevention, Control.	2
2	Avian Influenza : Definition, Etiology, Serotypes ,Signs, Lesions, Diagnosis, Differential Diagnosis, Methods of Spreads, Prevention and Control.	2
3	Infectious Bronchitis : Definition, Etiology, Forms ,Signs, Lesions, Diagnosis, Differential Diagnosis, Methods of Spreads, Prevention and Control.	2
4	Infectious Laryngotracheitis : Definition, Etiology ,Signs, Lesions, Diagnosis, Differential Diagnosis, Methods of Spreads, Prevention and Control.	2
5	Avian Pox : Definition, Forms, Types of Virus, Etiology ,Signs, Lesions, Diagnosis, Differential Diagnosis, Methods of Spreads, Prevention and Control.	2
6	Infectious Bursal Disease: Definition, Forms, , Etiology ,Signs, Lesions, Diagnosis, Differential Diagnosis, Methods of Spreads, Prevention and Control.	2
7	Avian Encephalomyelitis: Definition, Forms, , Etiology ,Signs, Lesions, Diagnosis, Differential Diagnosis, Methods of Spreads, Prevention and Control.	2
8	1.Hydropericardium-Hepatitis Syndrome, 2. Inclusion Body Hepatitis:Definition, Etiology ,Signs, Lesions, Diagnosis, Differential Diagnosis, Methods of Spreads, Prevention and Control.	2
9	Mareks Disease: Definition, Forms, , Etiology ,Signs, Lesions, Diagnosis, Differential Diagnosis, Methods of Spreads, Prevention and Control.	2
10	Lymphoid Leucosis: Definition , Etiology ,Signs, Lesions, Diagnosis, Differential Diagnosis, Methods of Spreads, Prevention and Control.	2
11	Egg Drop Syndrome: Definition , Etiology ,Signs, Lesions, Diagnosis, Differential Diagnosis, Methods of Spreads, Prevention and Control.	2
12	Viral Arthritis: Definition , Etiology ,Signs, Lesions, Diagnosis, Differential Diagnosis, Methods of Spreads, Prevention and Control.	2
13	Chicken Infectious Anemia: Definition , Etiology , Forms ,Signs, Lesions, Diagnosis, Differential Diagnosis, Methods of Spreads, Prevention and Control	2
14	Runting-Stunting Syndrome: Definition , Etiology ,Signs, Lesions, Diagnosis, Differential Diagnosis, Methods of Spreads, Prevention and Control.	2
15	Avian Rhinotracheitis :Definition , Etiology ,Signs, Lesions, Diagnosis, Differential Diagnosis, Methods of Spreads, Prevention and Control.	2
Total		30



### Course Contents

Course Content		
week	Topics	Hours
	<b>Practical Subject</b>	
1	Diagnosis of Necrotic Enteritis and Ulcerative Enteritis.	2
2 and 3	<i>Mycoplasmosis, Airsacculitis, Hydropericardium-Hepatitis Syndrome.</i>	4
4	Newcastle Disease: Diagnosis , Prevention and Control.	2
5	Mareks Disease , Lymphoid Leukosis ,Diagnosis and Differential Diagnosis.	2
6	Diagnosis of Avian Encephalomyelitis.	2
7	Infectious Bronchitis and Infectious Laryngotracheitis.	2
8	Infectious Bursal Disease and Inclusion Body Hepatitis.	2
9	Avian Pox.	2
10	Egg Drop Syndrome and related diseases which causing decrease Egg Production.	2
11	Vaccination and Vaccination Programs.	2
12	Parasitic Diseases, Diagnosis, Treatment and Control.	2
13	Fungal Diseases, Diagnosis and Control.	2
14	Samples collection for Laboratory Diagnosis.	2
15	<i>Drugs and disease treatment.</i>	2
Total		30

### Mode of Assessment

Assessment	Score	Period
First Exam	10	10-11 <sup>th</sup> weeks
Second Exam	10	10-11 <sup>th</sup> weeks
Practical Exam	10	10-11 <sup>th</sup> weeks
Assignment, Projects, Quizzes, Tutorial	10	2 <sup>nd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> , 5 <sup>th</sup> , and 7 <sup>th</sup> , 8 <sup>th</sup> , 9 <sup>th</sup> , 10 <sup>th</sup> , 11 <sup>th</sup> .
Final Exam	60	After the 16 <sup>th</sup> .

### Textbooks and Recommended References.

- David E. Swayne, John R. Glisson, Larry R. McDougald, Lisa K. Nolan, David L. Suarez, and Venugopal Nar. Disease of Poultry, 13<sup>th</sup> EDITION. WILEY-BLACKWELL.
- امراض الدواجن . الدكتور فؤاد الشبخلي.
- التشخيص السريري لامراض الدواجن: د. احمد ماجد العطار و د. تحسين عبد العزيز



**Ministry of Higher education and Scientific Research  
University of Basrah  
College of Veterinary Medicine**



- **Course Level:** Fourth-Year Level
- **Course Name:** Theoretical Clinical pathology –I/ 1 hour
- **Course Name:** Practical Clinical pathology –I / 2 hours
- **Semester:** First
- **Units:** 2

**Course Objectives**

**Upon completion of this course, the student should be familiarized with:**

- The student be able to identify the laboratory equipment and instruments.
- Understanding the sample collection, mailing and preserve.
- Identify the most important hematological and functional pathological tests with veterinary importance

**Course Contents**

<b>Course Content</b>		
<b>week</b>	<b>Topics</b>	<b>Hours</b>
	<b>Theoretical Subject</b>	
1	Introduction : terminology and concepts	1
2-5	Clinical hematology (leukocytes and erythrocytes)	4
6-7	Platelets functions, abnormalities and diagnosis of bleeding disorders	2
8-9	Examination of bone marrow	2
10-11	Clinical biochemistry :Basic principles, total proteins ,ketones ,urea, minerals levels	2
12	Liver function tests	1
13	Kidney function tests	1
14	Water electrolytes and acid base imbalances	1
15	Exam.	1
Total		15

**Course Contents**

<b>Practice Course Content</b>		
<b>week</b>	<b>Topics</b>	<b>Hours</b>
	<b>Practical Subject</b>	
1	Collections of different samples	2
2	Erythrocytes count	2
3	Reticulocytes count	2
4	Packed cell volume and Hb determination	2
5	Total leukocytes count	2
6	Differential leukocyte count	2
7	ESR determination	2
8	Bleeding time and clotting time	2
9	Platelets functions and abnormalities	2
10	Blood smear examination	2



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11	Lymph smear examination	2
12	Total proteins, ketones, urea, Enzymology ,mineral levels	2
13	Examination of urine (physical and chemical)	2
14	Examination of urine ( microscopical examination )	2
15	Exam.	2
Total		30

**Mode of Assessment**

Assessment	Score	Period
First Exam	10	10-11 <sup>th</sup> weeks
Second Exam	10	10-11 <sup>th</sup> weeks
Practical Exam	10	10-11 <sup>th</sup> weeks
Assignment, Projects, Quizzes, Tutorial	10	2 <sup>nd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> , 5 <sup>th</sup> , and 7 <sup>th</sup> , 8 <sup>th</sup> , 9 <sup>th</sup> , 10 <sup>th</sup> , 11 <sup>th</sup> .
Final Exam	60	After the 16 <sup>th</sup> .

**Textbooks and Recommended References**

- Latimer 2011 Duncan and Prasse's Veterinary laboratory medicine- clinical pathology 5<sup>th</sup> Ed.
- Veterinary Laboratory Medicine CLINICAL BIOCHEMISTRY AND HAEMATOLOGY Second Edition by MORAG G. KERR 2002
- Steven L. and Scott, Michael A 2008 Fundamentals of Veterinary Clinical Pathology, 2nd edition
- Weiss and Wardrop 2006 Schalm's Veterinary Hematology 6<sup>th</sup> ed.
- other TBD



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- **Course Level:** Fourth-Year Level
- **Course Name:** Theoretical Clinical pathology –II/ 1 hour
- **Course Name:** Practical Clinical pathology –II / 2 hours
- **Semester:** Second
- **Units:** 2

**Course Contents**

<b>Course Content</b>		
week	Topics	Hours
	<b>Theoretical Subject</b>	
1	Introduction	1
2-4	Clinical microbiology	3
5	Antimicrobial sensitivity tests	1
6	Clinical immunology	1
7-10	Clinical parasitological	4
11-12	Examinations of milk	2
13-14	Examinations of rumen fluid and Transudate and exudate	2
15	Exam.	1
Total		15

**Course Contents**

<b>Course Content</b>		
week	Topics	Hours
	<b>Practical Subject</b>	
1	Fecal examination	2
2	Fecal examination	2
3-4	Examination of skin scraping	4
5-6	Clinical microbiology	4
7	Examinations of milk (physical & chemical)	2
8	Examinations of milk ( Bacterial )	2
9	Antimicrobial sensitivity tests	2
10	Examinations of rumen fluid	2
11-12	Serological tests	4
13-14	Tests for detection of toxic substances	4
15	Exam.	2
Total		30

**Mode of Assessment**

Assessment	Score	Period
First Exam	10	10-11 <sup>th</sup> weeks
Second Exam	10	10-11 <sup>th</sup> weeks
Practical Exam	10	10-11 <sup>th</sup> weeks
Assignment, Projects, Quizzes, Tutorial	10	2 <sup>nd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> , 5 <sup>th</sup> , and 7 <sup>th</sup> , 8 <sup>th</sup> , 9 <sup>th</sup> , 10 <sup>th</sup> , 11 <sup>th</sup> .
Final Exam	60	After the 16 <sup>th</sup> .



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**Textbooks and Recommended References**

- Veterinary clinical microbiology by Quinn et al 1999 reprint 2004
- Steven L. and Scott, Michael A 2008 Fundamentals of Veterinary Clinical Pathology, 2nd edition
- Basic laboratory procedures in clinical bacteriology 2<sup>nd</sup> Ed by Verheijen et al 2003
- Latimer 2011 Duncan and Prasse's Veterinary laboratory medicine- clinical pathology 5<sup>th</sup> ed.
- other TBD



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- **Course Level:** Fourth-Year Level
- **Course Name:** Infectious and epidemiological diseases-I/ 2 hour
- **Semester:** first
- **Units:** 2

**Course Objectives**

**Upon completion of this course, the student should be familiarized with:**

- Student should be able to know the infectious diseases prevalent in the country and neighboring countries
- Identify the most important infectious diseases of epidemiology

**Course Contents**

Course Content		
week	Topics	Hours
	<b>Subject</b>	
1	Introduction, contagious & communicable diseases Epidemiology of diseases	3
2	Morbidity and mortality rate ,population mortality Types of epidemiological diseases Epidemics, Endemic ,pandemics ,sporadic diseases	4
3	Transmission of diseases Primary & secondary factors in production of diseases Control and Eradications	3
4	<b><i>Diseases caused by bacteria</i></b> : Anthrax	1
5	Diseases caused by <i>Pasteurella spp.</i>	3
6	Diseases caused by <i>Clostridium spp.</i>	5
7	Tuberculosis and Johns' diseases	2
8	Actinomycosis and Actinobacillosis Brucellosis	4
9	Salmonellosis	2
10	Colibacillosis Mastitis	4
11	Diseases caused by <i>Mycoplasma spp.</i> Listeriosis	3
12	Leptospirosis Foot rot	2
13	Glanders Strangles Ulcerative lymphangitis	4
14	Contagious bovine pyelonephritis Caseous lymph adenitis in sheep Oral and laryngeal necrobacillosis	3
15	Diseases caused by <i>Haemophilus</i> and <i>Morexella spp.</i>	2
Total		45



### Mode of Assessment

Assessment	Score	Period
First Exam	15	5-6 <sup>th</sup> weeks
Second Exam	15	10-11 <sup>th</sup> weeks
Assignment, Projects, Quizzes, Tutorial	10	2 <sup>nd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> , 5 <sup>th</sup> , and 7 <sup>th</sup> , 8 <sup>th</sup> , 9 <sup>th</sup> , 10 <sup>th</sup> , 11 <sup>th</sup> .
Final Exam	60	After the 16 <sup>th</sup> .

### Textbooks and Recommended References

- Veterinary Epidemiology - An Introduction BY Dirk U. Pfeiffer 2002
- Radostits et al (2007) Veterinary medicine. 10<sup>th</sup> Ed
- Differential Diagnosis in Small Animal Medicine By Alex Gough 2007
- Color atlas of diseases and disorders in cattle by. Blowey, Roger W and Weaver, A. David 2011 3<sup>rd</sup> Ed
- An Introduction to Veterinary Epidemiology BY Mark Stevenson 2005





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- **Course Level:** Fourth-Year Level
- **Course Name:** Infectious and epidemiological diseases-II/2 hour
- **Semester:** Second
- **Units:** 2

**Course Objectives**

**Upon completion of this course, the student should be familiarized with:**

- Student should be able to know the infectious diseases prevalent in the country and neighboring countries
- Identify the most important infectious diseases of epidemiology

**Course Contents**

Course Content		
week	Topics	Hours
	Subject	
1	Diseases caused by viruses: Rinderpest PPR	3
2	FMD VS	3
3	Blue tongue BVD/MD	3
4	MCF	2
5	IBR Equine infectious anemia African horse sickness	4
6	Equine rhinopneumonitis Equine viral arteritis Equine influenza	3
7	Orf, Pox and Psudopox Lumpy skin disease	3
8	Bovine ephemeral fever Rift valley fever Akabane virus disease	3
9	Rabies & pseudo rabies	2
10	Bovine viral leukosis Scrapie Louping-ill	4
11-12	Diseases caused by blood parasitic infection	6
13-14	Diseases caused by external and internal parasites	6
15	Diseases caused by fungus	3
15	Exam.	
Total		45



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- **Course Level:** Fourth-Year Level
- **Course Name:** Clinic II/ 2 hours
- **Semester:** First
- **Units:** 2

**Course Objectives**

Upon completion of this course, the student should be familiarized with:

- Learn how to Report the case
- Teach the students to examine the sick animal
- The student can be able to use traditional technical tools for the diagnosis
- Educated on patient care and treatment

**Course Contents**

Course Content		
week	Topics	Hours
	<b>Subject</b>	
1-14	Examination of animals ,diagnosis of disease conditions referred to the Veterinary Teaching Hospital or through field visits. Rotation in surgery ,obstetrics, poultry diseases ,internal medicine and clinical pathology .	56
15	Revision and Exam.	4
Total		60

**Mode of Assessment**

Assessment	Score	Period
First Exam	15	5-6 <sup>th</sup> weeks
Second Exam	15	10-11 <sup>th</sup> weeks
Assignment, , Projects, Quizzes, Tutorial	10	2 <sup>nd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> , 5 <sup>th</sup> , and 7 <sup>th</sup> , 8 <sup>th</sup> , 9 <sup>th</sup> , 10 <sup>th</sup> , 11 <sup>th</sup> .
Final Exam	60	After the 16 <sup>th</sup> .

**Textbooks and Recommended References**

- Clinical Examination of Farm Animals BY Peter G.G. Jackson & Peter D Cockcroft (2002)
- Color atlas of diseases and disorders in cattle by. Blowey, Roger W and Weaver, A. David 2011 3<sup>rd</sup> Ed



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- **Course Level:** Fourth-Year Level
- **Course Name:** Clinic II/ 2 hours
- **Semester:** Second
- **Units:** 2

**Course Objectives**

**Upon completion of this course, the student should be familiarized with:**

- Learn how to interpret case report
- Teach the students to examine the sick animal
- The student can be able to use traditional technical tools for the diagnosis
- Educated on patient care and treatment

**Course Contents**

<b>Course Content</b>		
<b>week</b>	<b>Topics</b>	<b>Hours</b>
	<b>Subject</b>	
1-14	Examination of animals ,diagnosis of disease conditions referred to the Veterinary Teaching Hospital or through field visits. Rotation in surgery ,obstetrics, poultry diseases ,internal medicine and clinical pathology .	56
15	Revision and Exam.	4
Total		60

**Mode of Assessment**

<b>Assessment</b>	<b>Score</b>	<b>Period</b>
First Exam	15	5-6 <sup>th</sup> weeks
Second Exam	15	10-11 <sup>th</sup> weeks
Assignment, Projects, Quizzes, Tutorial	10	2 <sup>nd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> , 5 <sup>th</sup> , and 7 <sup>th</sup> , 8 <sup>th</sup> , 9 <sup>th</sup> , 10 <sup>th</sup> , 11 <sup>th</sup> .
Final Exam	60	After the 16 <sup>th</sup> .

**Textbooks and Recommended References**

- Clinical Examination of Farm Animals BY Peter G.G. Jackson & Peter D Cockcroft (2002)
- Color atlas of diseases and disorders in cattle by. Blowey, Roger W and Weaver, A. David 2011 3<sup>rd</sup> Ed

**Mode of Assessment**

<b>Assessment</b>	<b>Score</b>	<b>Period</b>
First Exam	15	5-6 <sup>th</sup> weeks
Second Exam	15	10-11 <sup>th</sup> weeks
Assignment, Projects, Quizzes, Tutorial	10	2 <sup>nd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> , 5 <sup>th</sup> , and 7 <sup>th</sup> , 8 <sup>th</sup> , 9 <sup>th</sup> , 10 <sup>th</sup> , 11 <sup>th</sup> .
Final Exam	60	After the 16 <sup>th</sup> .



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**Textbooks and Recommended References**

- Veterinary Epidemiology - An Introduction BY Dirk U. Pfeiffer 2002
- Radostits et al (2007) Veterinary medicine. 10<sup>th</sup> Ed
- Differential Diagnosis in Small Animal Medicine By Alex Gough 2007
- Color atlas of diseases and disorders in cattle by. Blowey, Roger W and Weaver, A. David 2011 3<sup>rd</sup> Ed
- An Introduction to Veterinary Epidemiology BY Mark Stevenson 2005



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- **Course Level:** Fourth Year Level
- **Course Name:** Theoretical Female fertility and venereal diseases/ 2 hours
- **Course Name:** Practical Female fertility and venereal diseases/ 2 hours
- **Semester:** First
- **Units :** 3

**Course Objectives**

**Upon completion of this course, the student should be familiarized with:**

1. To provide students with important knowledge about structure and function of female reproductive system.
2. To provide students with important knowledge about hormonal control of reproduction.
3. To make students understand how can diagnosis and treatment of fertility problems and diseases .

**Course Contents**

<b>Course Content</b>		
<b>week</b>	<b>Topics</b>	<b>Hours</b>
	<b>Theoretical Subject</b>	
1	Anatomy of the female genitalia	2
2	Puberty and Maturity	2
3	Oestrous cycle in animals	3
4	Oster's detection	2
5	Seasonality and their effect	2
6	Ovulation	1
7	Luteolysis	2
8	Reproductive hormones	4
9	Infertility and Sterility	6
10	Reproduction in Mare	2
11	Reproduction in buffalo and camel	2
12	Reproduction in dogs and cats	2
Total		30

**Course Contents**

<b>Course Content</b>		
<b>week</b>	<b>Topics</b>	<b>Hour</b>
	<b>Practical Subject</b>	
1	Anatomy of the female genitalia	2
2	Examine of female genitalia	2
3	Measurements of female genitalia	2
4	Practical examine of female genitalia	2
5	Uses of reproductive hormones	2
6	Vaginal and Uterine samples	2
7	Anomalies of female genitalia	2
8	Intrauterine Therapy	2
9	Reproductive performance	14
Total		30



### Mode of Assessment

Assessment	Score	Period
First Exam	10	10-11 <sup>th</sup> weeks
Second Exam	10	10-11 <sup>th</sup> weeks
Practical Exam	10	10-11 <sup>th</sup> weeks
Assignment, Projects, Quizzes, Tutorial	10	2 <sup>nd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> , 5 <sup>th</sup> , and 7 <sup>th</sup> , 8 <sup>th</sup> , 9 <sup>th</sup> , 10 <sup>th</sup> , 11 <sup>th</sup> .
Final Exam	60	After the 16 <sup>th</sup> .

### Textbooks and Recommended References

- Richard L.Walker,DVM, and Walter R.Threlf,Large animal Theriogenology . 2003.
- Arthur, Reproduction in farm animals,2001.
- P.L.Senger,Ph.D.Pregnancy and parturition ,2<sup>nd</sup> ,2003
- Dr.Prafeep kumar.Applied Veterinary Gynaecology and obsterics ,1nd ,2009



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- **Course Level:** Fourth- Year Level
- **Course Name:** Theoretical Obstetrics / 2 hours
- **Course Name:** Practical Obstetrics / 2 hours
- **Semester:** Second
- **Units:** 3

**Course Objectives**

**Upon completion of this course, the student should be familiarized with:**

1. To provide students with important knowledge about fertilization, pregnancy and parturition.
2. To make students understand the development of embryos .
3. To make students understand how can dealing with normal parturition and dystocia.

**Course Contents**

Course Content		
week	Topics	Hours
	<b>Theoretical Subject</b>	
1	Introduction and history of the obstetrics Physiology of pregnancy	2
2	Development of the embryo	2
3	Maternal recognition of pregnancy	2
4	Fetal membranes and fetal fluids	2
5	Position of uterus during the pregnancy period	2
6	Gestation length and the dactors influencing it	2
7	Maintenance of pregnancy, Pregnancy diagnosis	2
8	Problem of pregnancy: Parturition	2
9	Dystocia: causes, Dystocia: treatment	2
10	Induction of parturition, Postpartum care	2
11	Pueperium period	2
12	Uterine involution, Uterine definsse mechanism	2
13	Puerperial diseases: retained placenta	2
14	Uterine prolapse	2
15	Metritis: causes, Metritis: treatment	2
Total		30

**Course Contents**

Course Content		
week	Topics	Hours
	<b>Practical Subject</b>	
1	Fetal membranes	2
2	General examine of female genitalia	2
3	Pregnancy diagnosis	2
4	Uterine tortion	2
5	Fetal anomalies	2



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6	Normal position of parturition	2
7	Fetal causes of distocia	2
8	Maternal causes of distocia	2
9	Obstetrical equipments	2
10	Obstetrical maneuvers	2
11	Caesarian section	2
12	Fetotomy	2
13	Uterine and vaginal prolapse	2
14	Pertained placenta	2
15	ovariectomy	2
Total		<b>30</b>

**Mode of Assessment**

Assessment	Score	Period
First Exam	10	10-11 <sup>th</sup> weeks
Second Exam	10	10-11 <sup>th</sup> weeks
Practical Exam	10	10-11 <sup>th</sup> weeks
Assignment, Projects, Quizzes, Tutorial	10	2 <sup>nd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> , 5 <sup>th</sup> , and 7 <sup>th</sup> , 8 <sup>th</sup> , 9 <sup>th</sup> , 10 <sup>th</sup> , 11 <sup>th</sup> .
Final Exam	60	After the 16 <sup>th</sup> .

**Textbooks and Recommended References**

- David E. Noakes & David E. Noakes & Timothy J. Parkinson & Timothy J. Parkinson & Gary C. W. England & Gary C. W. England. Veterinary Reproduction & Obstetrics, 9th Edition
- Peter G. G. Jackson BVM&S MA DVM&S FRCVS. Handbook of Veterinary Obstetrics, 2e 2nd Edition





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- **Course Level:** Fourth-Year Level
- **Course Name:** Zoonotic diseases -II/ 2 hour
- **Semester:** Second
- **Units:** 2

**Course Objectives**

**Upon completion of this course, the student should be familiarized with:**

- Student should be able to know the diseases that transmitted from animal to man
- Identify the diseases that transmitted between different animal species
- Learn the control and prevention from zoonotic diseases

**Course Contents**

Course Content		
week	Topics	Hours
	<b>Subject</b>	
1	Introduction to zoonotic diseases	2
2	Principles of zoonotic recognition	2
3	Principles of zoonotic control & prevention Viral zoonosis :FMD,Bovine popular stomatitis ,Cow pox ,Orf,pseudocow pox	2
4	Argentina hemorrhagic fever, Crimean-Congo hemorrhagic fever,Ebola hemorrhagic fever,Rift valley fever ,Viral hepatitis type A,B,C,D Eastern ,Venzuelan&Western equine encephalitis	2
5	Loping ill, Mad cow disease Rabies, California encephalitis ,Colorado tick fever	1
6	West Nile fever,Yello fever, Nairobi sheep disease Equine& swine influenza	1
7	Newcastle disease .Psittacosis,Q fever Bacterial zoonosis ,Anthrax ,Listeriosis ,Leptospirosis ,Leprosy ,Botulism, Brucellosis,Compylobacteriosis	2
8	Tuberculosis Closterdium perfringes food poisoning,Streptococosis ,Staphylococosis	1
9	Colibacillosis,Vibriosis Salmonellosis,Shigellosis	2
10	Cat scratch disease ,Rat bit fever,Plague Tetanus,Clostridial histotoxic infection	1
11	Glanders & Corynbacterial infection Parasitic Zoonosis : Arthropod infection& tick paralysis	2
12	Cestoda infection :Coenurosis ,Taeniasis Echinococosis ,Diphyllbothriasis	2
13	Trematoda infection :Fascioliasis,Dictoceliasis Nematode infection:Ascariasis,Capillariasis,Filariasis,Thelaziasis	2
14	Protozoal infection :Toxoplasmosis,Cryptosporidiosis,Giardiasis,Sarcocystosis Babesiosis,balantidiasis,Leshmaniasis ,Trypanosomiasis	2
15	Ring worm ,candeciasis ,Histoplasmosis ,Nocardiosis	2



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	Cutaneous larva migration ,visceral larva migration	
Total		30

**Mode of Assessment**

Assessment	Score	Period
First Exam	15	5-6 <sup>th</sup> weeks
Second Exam	15	10-11 <sup>th</sup> weeks
Assignment, Projects, Quizzes, Tutorial	10	2 <sup>nd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> , 5 <sup>th</sup> , and 7 <sup>th</sup> , 8 <sup>th</sup> , 9 <sup>th</sup> , 10 <sup>th</sup> , 11 <sup>th</sup> .
Final Exam	60	After the 16 <sup>th</sup> .

**Textbooks and Recommended References**

- Animals disease and human society by Joanna Swabe 1999
- Radostits et al (2007) Veterinary medicine. 10<sup>th</sup> Ed