Beni-Suef University
Faculty of Veterinary Medicine
Department of Animal and poultry Management and Wealth Development

DIPLOMA PROGRAM SPECIFICATION
2017-2018

University: BeniSuef
Faculty: Veterinary medicine
A- Administrative Information
1. Program title:Diploma of vet. Med. Sciences (*Farm animals' diseases*).
2. Award/degree: Diploma
3. Department responsible: Dept. Animal Medicine.
4. Coordinator: Prof. Hossam Ahmed Bakr.
6. Date of most recent approval of program specification by the Faculty Council: 2017

B- Professional Information
1. Program aims:
1- Improve the postgraduate-student's skills related to veterinary internal medicine, infectious diseases, surgery, anesthesia, nutrition, parasitology, and the pathological abnormalities of the farm animals.
2-Introduce the academic background and clinical experience about the most important disease problems encountered in individual and herd or farm animals under the Egyptian conditions.
3-Define the disease problems in farm animals, outline the cause, understand the pathophysiology, collect the data for diagnoses, differentiate among similar diseases, interpret the results, diagnose the disease, and describe the treatment and the methods of control and prevention.

2. Intended learning outcomes (ILOs) for programme
Knowledge and understanding:

By the end of the Diploma program, the postgraduate must be able to:
a1- Outline the general characterization of diseases of farm animals.

a2- Deducing the clinical signs and clinical findings.
a3- Recognize the abnormal conditions of farm animals.
a4- Illustrate the pathophysiology of the diseases or disease problems.
a5- Diagnoses, treatment, control and prevention of the disease problems in farm animals.
a6- Be aware of nutritional requirements for farm animals.
a7- Be aware of the parasitic affections of the farm animals and how can control them.
a8- Be aware of surgical affections in farm animals and how can deal with them.

b- Intellectual skills
By the end of the Diploma program, the postgraduate must be able to:
b1- Understanding circumstances of the disease and the pattern of occurrence.
b2- Differentiate between diseases causing similar problems.
b3- Integrate the diagnosis by using lab and new modalities of diagnosis.
b4- Interpret and analyze the results of clinical examination, lab. and different modalities of diagnoses.
b5- Make up a decision of diagnosis, prognosis and treatment and management of the disease problem.

c- Professional and practical skills
By the end of the Diploma program, the postgraduate must be able to:
c1- Perform the proper traditional clinical examination in individual animal and in herd.
c2- Collect the data and the samples for diagnoses.
c3- Evaluate all collected data for making a decision (diagnoses/prognoses) in individual animal and herd.

d- General and transferable skills
By the end of the Diploma program, the postgraduate must be able to:
d1- Demonstrate problem solving.
d2- Utilize team work.
d3- Be familiar with communication and computer skills for presenting the research findings.

3- Academic standards
* The faculty mission, vision and strategic objective are confirmed to the academic standard. The learning outcomes are inline with the department and the faculty mission.

* Postgraduates NARS (February 2009) Diploma degree chapter issued by national authority for quality assurance and accreditation of education (NAQAAE) and Veterinary medicine post graduate academic standards (ARS) for the faculty of veterinary medicine, BeniSuef University, BeniSuef, Egypt are selected to confirm the appropriateness of the academic standards .

4 – Curriculum structure and content

5.1) Programme duration: 1years

5.2) Programme structure:

Title	Lecture	Practical	Total
Veterinary Internal Medicine	2	2	4
Infectious diseases	2	2	4
Pathology	1	1	2
Special parasitology	1	1	2
Nutrition and deficiency diseases	1	1	2
Special surgery	1	1	2
Total	8	8	16

5- Programme – course ILOS Matrix

Title	a1	a2	a3	a4	a5	a6	a7	a8	b1	b2	b3	b4	b5	c1	c2	c3	d1	d2	d3
Veterinary Internal Medicine	x	x	x		x	x		x	x	x	x		x	x		x		x	x
Infectious diseases	x	x		x	x		x	x	x		x	x					x	x	x
Pathology				x													x	x	x
Special parasitology							x										x	x	x
Nutrition and deficiency diseases						x											x	x	x
Special surgery								x									x	x	x

Program ILOs		Program aims		
Program ILOS		**1-** Improve the postgraduate-student's skills related to veterinary internal medicine, infectious diseases, surgery, anesthesia, nutrition, parasitology, and the pathological abnormalities of the farm animals.	**2-** Introduce the academic background and clinical experience about the most important disease problems encountered in individual and herd or farm animals under the Egyptian conditions.	**3-** Define the disease problems in farm animals, outline the cause, understand the pathophysiology, collect the data for diagnoses, differentiate among similar diseases, interpret the results, diagnose the disease, and describe the treatment and the methods of control and prevention.
Knowledge and understanding	a1- Outline the general characterization of diseases of farm animals.	√	√	√
	a2- Deducing the clinical signs and clinical findings.	√		√
	a3- Recognize the abnormal conditions of farm animals.	√		√
	a4- Illustrate the pathophysiology of the diseases or disease problems.	√		
	a5- Diagnoses, treatment, control and prevention of the disease problems in farm animals.	√	√	√
	a6- Be aware of nutritional requirements for farm animals.	√		
	a7- Be aware of the parasitic affections of the farm animals and how can control them.	√		
	a8- Be aware of surgical affections in farm animals and how can deal with them.	√		
Intellectual skills	b1- Understanding circumstances of the disease and the pattern of occurrence.	√	√	√
	b2- Differentiate between diseases causing similar problems.		√	√
	b3- Integrate the diagnosis by using lab and new modalities of diagnosis.		√	√
	b4- Interpret and analyze the results of clinical examination, lab. and different		√	√

Program ILOs		1- Improve the postgraduate-student's skills related to veterinary internal medicine, infectious diseases, surgery, anesthesia, nutrition, parasitology, and the pathological abnormalities of the farm animals.	2- Introduce the academic background and clinical experience about the most important disease problems encountered in individual and herd or farm animals under the Egyptian conditions.	3- Define the disease problems in farm animals, outline the cause, understand the pathophysiology, collect the data for diagnoses, differentiate among similar diseases, interpret the results, diagnose the disease, and describe the treatment and the methods of control and prevention.
Program ILOS				
	modalities of diagnoses.			
	b5- Make up a decision of diagnosis, prognosis and treatment and management of the disease problem.		√	√
Practical and professional skills	c1- Perform the proper traditional clinical examination in individual animal and in herd.		√	√
	c2- Collect the data and the samples for diagnoses.			
	c3- Evaluate all collected data for making a decision (diagnoses/prognoses) in individual animal and herd.		√	
General and transferable skills	d1- Demonstrate problem solving.		√	√
	d2- Utilize team work.		√	√
	d3- Be familiar with communication and computer skills for presenting the research findings.		√	√

6-Programme admission requirement
1- Obtaining a bachelor degree in veterinary medicine sciences from one of the Egyptian universities or equivalent degree from another recognized scientific institute with any grade
2- The bachelor degree must be obtained at least one year prior to registration
3- The applicant must have regular attendance in his courses according to the schedule of the faculty.
4- Registration will be during September of each year.

7 - Regulations for progression and programme completion
1- registration period is one year for diploma and the applicant not exceed a period of registration for two years.
2- the examinations of the diploma are 2 times / year in December & April.
3- the faculty council has the right to deprive the applicant from the exam if his attendance courses are less than 75%.
4- in case of failure, the exams will be hold 2 times / year and reexamination in all courses each time.

8-System of examination for postgraduate studies as follow:

□Time of written exams, 3 hours for each curriculum have 3 hours or more for theoretical / practical hours/ week. If the curriculum less than 3 hours / week, the time of ex. is 2 hours only.

□ The final degree of each curriculum which have 3 hours (theoretical & practical) per week is 100 & less than 3 hours 50 degree & divided into 50 % for written ex. and 50 % for practical and oral ex.

9-Grades of graduation are as follow

Excellent	**≥90**
Very good	**≥ 80**
Good	**≥70**
Pass	**≥60**
Failed	**45 to less than 60 weak**
	Less than 45 very weak

The programme specification should have attached to it all course specifications listed in the matrix.

Programme coordinator:
Name\ Prof. Hossam Ahmed Bakr.

Head of the Department :
Name: Prof.Hosein Ibrahim Hosein

Course specification

A- Administrative Information:

Course Code:	D13
Course title :	Pathology
Academic year:	Postgraduate students.
Program title:	Diploma of Vet. Med. Sciences (farm animals).
Degree:	Diploma.
Contact hours/ week	2 hours per week (1hr theoretical and 1hr practical).
Course coordinator:	Dr. EL-Shaymaa Nabil EL-Nahass
External evaluator(s)	Prof. Dr. Sary Khalil
Date of course approval:	September, 2017

B-Professional information

1- Overall aims of course:

This course aims to:
By the end of this course the graduate should be able to understand Mechanism, by which the disease developed, progressed and squealed. Understand the mechanisms of lesion development. recognize thecharacters of lesions of bacterial, parasitic , viral and mycotic diseases of farm animals.

2- Intended learning outcomes of course (ILOs)

a- Knowledge and understanding:
At the end of this course, the student must able to:
a.1. Recall Knowledge about the molecular and cellular response of the living body when exposed to infectious agent
a.2. Outline the relationship between causes and tissue/organ changes.
a.3. Describe the macroscopic & microscopic tissue changes microbial infection in farm aimal.
a.4. Recognize Knowledge about typing and classification of different pathological lesions.
a.5. Illustrate the pathogenesis of farm animal diseases.

b. Intellectual skills:
By the end of studying this course, the graduate should be able to:-
b1. Discriminate between tissue/organ appearance in health and diseased animal.
b.2. Di erentiate between the di erent pathological alterations in farm animal diseases.
b3. Score the microscopic pathological picture of farm animal diseases.
b.4. Interpret correctly the pathological data obtained from the macroscopic and microscopic examination to reach final diagnosis.

b.5. Integrate the pathological alterations with the cause.

c.Professional and practical skills

By the end of studying this course, the graduate should be able to:-

c1.Select the necessary techniques for sample reception & processing according to the nature of specimen received.

c.2. Examine and identify the macroscopic criteria of the pathological alterations.

c.3. Examine and identify the microscopic criteria of diseases.

c4. Perform diagnosis and full description for the pathological picture based on the gross and histopathological examination

c5. Write a report commenting on a pathological specimens

d- General and transferable skills

By the end of this course, the student should be able to:-

d1. Demonstrate the ability of problem definition

d.2. Utilize the computer, microscope and internet

d.3. Use data analysis and communication skills

d.4. Utilize various computer based instruction tools and E-learning of Pathology and utilize a variety of computer-based self assessment tools.

d.5 Use the sources of biomedical information available to remain current with advances in knowledge and practice.

d.6 lead a teamwork in a certain professional task.

d.7 owncontinouse and self learninig

Course	Topic	Total no. of hours	Lect.	Pract.
Postgraduate students Pathology 2 hours / weak (Lec. 1hr/wk - Pract. 1hr/wk)	1. Introduction in pathology and histopathological techniques	6	3	3
	2- General bases of pathological alterations (dist. In cell metabolism, Cell death, dist. In circulation, inflammation and healing and general tumors)	12	6	6
	3.Pathology of bacterial diseases	8	4	4
	4.Pathology of viral diseases	8	4	4
	5.Pathology of parasitic	8	4	4
	6. Pathology of mycotic diseases	6	3	3
	7.Pathology of nutritional diseases	8	4	4
	8.postmortem examination and differential diagnosis	8	4	4
	9-Activities	8	4	4
	Total	72	36	36

4-Teaching and learning methods

5.1. Lectures (brain storming, discussion) in which one or more of the following facilities are used:

5.1.1. White board and data-show presentations.

5.1.2. Educational preserved specimens.

5.1.3. Illustrations, anatomical charts, CD's, PowerPoint slides and recorded anatomy videos.

5.2. Laboratory sessions in which one or more of the following facilities are used:

5.2.1. Tutor presentation followed by students' small group sessions.

5.2.2. Educational models.

5.2.3. Demonstrating formalin preserved tissues.

5.3. Independent (laboratory and home assignments supervised by tutor)

5.3.1. Writing reports and assignments (computer researches and faculty library attendance).

5.3.2. Preparation of colored posters and slide presentation.

5.3.3. Preparation of preserving specimens.

5.3.4. Group discussion.

5-Student assessment

5.1. Assessments methods:

Method	Matrix alignment of the measured ILOs/ Assessments methods			
	K&U	I.S	P&P.S	G.S
Written Exam	a1,a2, a3,a4,a5	B1, b2, b3, b5,	-	d1,d3,d4
Practical Exam	-	b1, b2, b3, b4	c1, c2, c3, c4, c5	d2, ,d5.d6.d7
Oral Exam	a1,a2, a4,a5	b1,b2	c1, c2, c5	d1, d5

5.2. Assessment schedules/semester:

Method	Week(s)
Practical exams	Managed by department administration
Written exams	Managed by faculty administration
Oral Exams	Managed by department administration

5.3. Weight of assessments:

Assessment	Weight of assessment
Practical and oral exams	50%
written exams	50%
Total	100%

6- List of references

8.1. Notes and books:

None

8.2. Essential books:

- **Jubb,K.V., P.C.Kennedy and N.Palmer (1993) Pathology of Domestic Animal, 6th ed. San Diego, New York**
- **Jones, T.C., Hunt, R.D. and King, N.W (2008) Veterinary pathology , 8th ed. Williams and wilkins, Waverly company (2008)**

- Gallin, J. and Synder , R (2010), In ammation 3rd. ed. Lippincott Williams,Wilkins. Philadelphio
- Ramz-I S. and Kumar, V. and Collin, T. (1999) Pathological Basis of Disease , 6thed .

These book is available in the library of faculty of Veterinary Medicine, Beni-Suef Univ.

8.3. Recommended textbooks:

8.3.1. R.S. Chauhan (2010) Text Book of veterinary pathology. *1st. ed. IBDC publishers *This book is available online.*

8.3.1 Jaap Van Dijk, Erik Gruys, and Johan Mouwen, COLOR ATLAS OF VETERINARY PATHOLOGY (2006) 2nd ed., Saunders Ltd

8.3.2. Richert, G and Epstein , M. (international review of experimental pathology)

8.4. Journals, Websites ……..etc

Journals

- **Egyptian Journal of Comparative Pathology and Clinical Pathology**
- **PathologiaVeterinaria**
- **American Journal of Pathology**
- **Journal of Pathology and Bacteriology**
- **Archive of Pathology**
- **Veterinary Record**
- **Journal of Comparative Pathology**
- **Canadian Journal of comparative Medicine**
- **American Journal of veterinary research**
- **Research on veterinary Science**
- **Beni-Suef Veterinary Medical journal**

http://www.bsuv.bsu.edu.eg/vetmed.aspx#

Websites

*Google search*www.google.com

*Sciencedirect*http://www.sciencedirect.com.

*Pubmed*http://www.Pubmed.

*Colorado State university online*http://www.online.colostate.edu/courses/VS/VS333.dot

*The university of adelaide*https://www.adelaide.edu.au/course-outlines/104377/1/sem-1/

*VET Veterinary Educational Tools*http://www.cvmbs.colostate.edu/vetneuro/

*Education platform*http://ivsascove.wix.com/eduplatform#!anatomy-hist-embr/ctsm

http/cms.nelc.edu.eg

www.asvp.asn.au.com

www.geneng news.com

www.altcancer.com

Course Coordinator	**Head of the department**
Dr. EL-Shaymaa Nabil EL-Nahass	*Prof. Dr. Khalid Ali El-Nesr*
Lecturer of pathology	Professor and Head of pathology department,
Faculty of Veterinary Medicine,	Faculty of Veterinary Medicine,
Beni-Suef University	Beni-Suef University

Course specification Matrix

		Topic	Week	Intended learning outcomes of course (ILOs)			
				K&U (a)	I.S (b)	P.P.S (c)	G.T.S (d)
Postgraduate students	Pathology 2 hours / weak (Lec. 1hr/wk - Pract. 1hr/wk)	1. Introduction in pathology and histopathological techniques	1-3	1,2	1,3,5	-	
		2- General bases of pathological alterations (dist. In cell metabolism, Cell death, dist. In circulation, inflammation and healing and general tumors)	4-9	1,2,3,4	1,2,3,4,5	1,3,5	1-7
		3.Pathology of bacterial diseases	10-13	1,2,3,4,5	1,2,3,4,5	1, 2,3,4,5	
		4.Pathology of viral diseases	14-17	1,2,3,4,5	1,2,3,4,5	1, 2,3,4,5	
		5.Pathology of parasitic	18-21	1,2,3,4,5	1,2,3,4,5	1, 2,3,4	
		6. Pathology of mycotic diseases	22-24	1,2,3,4,5	1,2,3,4,5	1, 2,3,4,5	
		7.Pathology of nutritional diseases	25-28	2,3,4,5	1,2,3,4,5	1, 2,3,4,5	
		8.postmortem examination and di erential diagnosis	29-32	2,3,4	1,2,3,4,5	1, 2,3,4,5	
		9-Activities	33-36	1,2,3,4	2,3,4,5	1, 2,3,4,5	

Beni-Suef University
Faculty of Veterinary Medicine

Course specification of postgraduate

1-Basic information	

Course Code:	
Course title :	Special Parasitology
Program title:	Diploma of Farm Animal Medicine
Contact hours/ week	2 hours per week (1hr theoretical and 1hr practical)
Approval Date	

2-Professional information

Overall aims of course:

The post graduate student of diploma of farm animal medicine could be able go:

- Identify parasites of farm animals.

- Recognize parasites of small animals (sheep & goats), (morphology, biology, pathogenesis, diagnosis and control).

- Differentiate between parasites of large animals (cattle & buffaloes), (morphology, biology, pathogenesis, diagnosis and control).

-Describe parasites of equines (morphology, biology, pathogenesis and diagnosis).

- Be aware about general diagnostic techniques to diagnose parasitic infections in farm animals.

3- Intended learning outcomes of course (ILOs)

Knowledge and understanding:

By the end of this course the student should be able to:

a1. Identify signs of parasitic infection.

a2. Write about morphology, biology, pathogenesis, diagnosis and control parasites of small animals (sheep & goats).

a3. Recognize morphology, biology, pathogenesis, diagnosis and control parasites of large animals (cattle & buffaloes).

a4. Summarize morphology, biology, pathogenesis and diagnosis of parasites of equines.

a5. Realize the general diagnostic techniques to diagnose parasitic infections in farm animals.

a6. Familiarize the suitable treatment for each appropriate parasite.

b. Intellectual skills

By the end of this course the student should be able to:

b1. Analyze signs of parasitic infections.

b2. Differentiate various parasitic affections infecting large and small animals (morphology, biology, and pathogenesis).

b3. Compare between the various parasitic affections of equines (morphology, biology, and pathogenesis).

b4. Compare between diagnosis and control of different parasitic infections in farm animals.

b5. Utilize the general diagnostic techniques to diagnose parasitic infections in farm animals.

b6. Interpret results of diagnosis.

Course specification of postgraduate

C- Professional and practical skills

By the end of this course the student should be able to:

c1. Obtain samples for diagnostic purposes and its preservation for further examination.

c2. Prepare parasitic specimens for particular diagnosis.

c3. Perform the different diagnostic techniques to diagnose the parasitic infections.

c4. Write a scientific report about the results of diagnosis.

d- General and transferable skills

By the end of studying the course, the student should be able to:

d1. Work effectively in a team.

d2. Use efficiently source of knowledge.

d3. Able to transfer the experience to others.

d4. Characterize and differentiate various parasitic affections.

4-Topics and contents

Course	Topic	No. of hours	Lectures	Practical
(Lec.2h./week)	Introduction to parasites of farm animal and signs of parasitic infection.	2	2	-
(Lec. 1h./week, Pract 1h./week)	Parasite of small animals (sheep & goats). Morphology, biology, pathogenesis, diagnosis and control.	18	9	9
(Lec. 1h./week, Pract 1h./week)	Parasites of large animals (cattle & buffaloes). Morphology, biology, pathogenesis, diagnosis and control.	18	9	9
(Lec. 1h./week, Pract 1h./week)	Parasites of equines. Morphology, biology, pathogenesis and diagnosis.	18	9	9
(Lec. 1h./week, Pract 1h./week)	General diagnostic techniques to diagnose parasitic infections in farm animals (Obtain samples for diagnostic purposes and its preservation, prepare parasitic specimens for particular diagnosis and how to write a scientific report).	16	7	9

5-Teaching and learning methods

5.1- Lectures (brain storm, discussion) using board, data shows.

5.2- Self learning by preparing essays and presentations (computer researches and library).

5.3- Practical (models, samples of stained tissues and data show).

5.4- Video movies for students of special needs.

Course specification of postgraduate

6-Student assessment

6.1. Assessments methods:

Method	Matrix alignment of the measured ILOs/ Assessments methods			
	K&U	**I.S**	**P&P.S**	**G.S**
Written Exam	a1,a2, a4, a5, a6	b1, b2,b3, b4, b5, b6	c1, c2, c3, c4, c5	d1
Practical Exam	a1, a2, a3, a4, a5, a7	b1, b2, b3, b4, b5, b6	c1, c2, c3, c4,	d1, d2, d3, d4
Oral Exam	a1-a7	b1-b2, b3, b4,	c1, c2, c4,	d1,d2, d3,d4

6.2. Assessment schedules

Method	Week(s)
Written exams	Managed by faculty administration
Practical exams	Managed by department administration
Oral Exam	Managed by department administration

6.3. Weight of assessments

Assessment	Weight of assessment
Written exams	50%
Practical exams	25%
Oral Exam	25%
Total	100%

7- List of references

7.1. Notes and books

7.2. Essential books:

Veterinary Parasitology, Laboratory manual of diagnostic parasitology

7.3. Recommended texts

Parasitology For Veterinarians, Veterinary Clinical Parasitology.

7.4. Journals, Websites ……..etc

Journals: Veterinary Parasitology.

Egyptian Veterinary Medical Society of Parasitology Journal.

Websites:

http://www.journals.elsevier.com/veterinary-parasitology/

Course Coordinators   **Head of Department**

Course specification of postgraduate

Course specification

	Topics	Weeks	Intended learning outcomes of course (ILOs)			
			K and U (a)	I.S (b)	P. P.S. (c)	G.T.S (d)
1	Introduction to parasites of farm animal and signs of parasitic infection.	1	a1,a2, a4, a5		c1,	d2
2	Parasite of small animals (sheep & goats). Morphology, biology, pathogenesis, diagnosis and control.	9	a1, a2, a3, a4, a5, a6, a7	b1, b2, b3, b4, b5, b6	c1, c2, c3, c4,	d1, d2, d3, d4
3	Parasites of large animals (cattle & buffaloes). Morphology, biology, pathogenesis, diagnosis and control.	9	a1, a2, a3, a4, a5,a6, a7	b1, b2, b3, b4, b5,b6	c1, c2, c3, c4, c5, c6	d1, d2, d3, d4
4	Parasites of equines. Morphology, biology, pathogenesis and diagnosis.	9	a1, a2, a3, a4, a5, a6, a7	b1, b2, b3, b4, b5, b6	c1, c2, c3, c4,	d1, d2, d3, d4
5	General diagnostic techniques to diagnose parasitic infections in farm animals (Obtain samples for diagnostic purposes and its preservation, prepare parasitic specimens for particular diagnosis and how to write a scientific report).	8	a1, a2, a3, a4, a5, a6, a7	b1, b2, b3, b4, b5, b6	c1, c2, c3, c4,	d1, d2, d3, d4

Beni Suef University
Faculty of Veterinary Medicine

University: Beni-Suef University, Egypt.

Faculty: Faculty of Veterinary Medicine.

Departments: Animal medicine (Veterinary Internal Medicine)

Course specification (Veterinary Internal MedicineDiploma)

A- Administrative Information:

Course Code:	**D13**
Course title :	Farm Animals
Academic year:	Postgraduate students.
Program title:	Diploma of Vet. Med. Sciences (Farmanimals and birds).
Degree:	Diploma.
Contact hours/ week	4 hours per week (2hr theoretical and 2hr practical).
Course coordinator:	Prof. Dr. Hossam Ahmed Bakr
External evaluator(s)	Prof. Dr.
Date of course approval:	9/2018

B-Professional information

1- Overall aims of course:

This course aims to:

After completing the postgraduate course whichis introducing the academic background and clinical experience about the most important disease problems encountered in farm animals under the Egyptian conditions. Moreover, the student should be able to define the disease problem, outline the cause, understand the pathophysiology, collect the data for diagnoses, differentiate among similar diseases, interpret the results, diagnose the disease, and describe the treatment and the methods of control and prevention of the disease.

2- Intended learning outcomes of course (ILOs)

a-Knowledge and understanding:

By the end of this course the student should be able to:

a.1- Recognize the special behavioral patterns in health and diseases.

a. 2- Describe the proper methods for clinical examinations in farm animals.

a.3- Identify the diseases of different systems affecting farm animals.

a.4- Recognize the pillars of diagnosis and differential diagnoses in diseases affecting farm animals.

b- Intellectual skills:

By the end of this course the student should be able to:

b.1- Distinguish the different clinical findings manifested by diseased animals.

b.2-Categorize the diseases which shear with the main clinical signs.

b.3- Differentiate between the clues of different diseases characterized by major clinical signs in farm animals.

b.4-Classify the principal lines of treatment of each group of diseases characterized by major clinical signs in farm animals.

c-Professional and practical skills

By the end of this course the student should be able to:

c.1-Practice the skills of animal approaching, handling and restraint.

c.2- Employ the proper method for clinical examination in farm animals.

c.3- Interpret the clinical and lab findings in farm animals diseases

c.4- Illustrate the new modalities in diagnosis of farm animals diseases (e.g endoscopy, ultrasound….etc).

c.5- Use the new trends in the treatment of the farm animals diseases.

c.6-Apply the methods of diagnosis on clinical cases in farm animals.

d- General and transferable skills

By the end of studying the course, the student should be able to:

d1. Appreciate the clinical ethics during the work in the field.

d2. Recognize the principles of clinical examinations in farm animals.

d3. Maintain and development the talents of clinical examination.

d4. Communicate effectively with public, colleagues and appropriate authorities.

d5. Achieve computer skills necessary to make use of medical databases and use the internet for communication.

d6. Comprehend a scientific paper and essay.

Topic	Total (hrs)	Lecture (hrs)	Practical (hrs)
Introduction to farm animal medicine.	8	0	8
Principles of clinical examination in farm animals.	8	0	8
Principal line of diagnosis and treatment in farm animals.	8	0	8
Principles of new modalities of diagnosis in farm animals	8	0	8
General systemic states in farm animals	8	8	0
Gastroenterology in farm animals.	20	12	8
Diseases of Cardiovascularsystem in farm animals	14	10	4
Diseases of respiratory system	14	10	4
Diseases of urinary system in farm animals	16	8	8
Introduction to neurology in farm animals	16	8	8
Veterinary dermatology (farm animals)	12	8	4
Diseases of Nutritional deficiency and metabolic disorders in farm animals	8	8	0
Students activities - **Writing assays and reports.**	4	0	4
Total	144	72	72

Teaching and learning methods

5.1. Lectures (brain storming, discussion) in which one or more of the following facilities are used:

5.1.1. White board and data-show presentations.

5.1.2. Brain storming and group discussion

5.1.3. Illustrations of clinical examination and modalities of diagnosis in farm animals.

5.2. Laboratory sessions (clinics) in which one or more of the following facilities are used:

5.2.1. Tutor presentation for clinical examination and methods of diagnosis.

5.3. Independent (laboratory and home assignments supervised by tutor)

5.3.1. Writing reports and assignments (computer researches and faculty library attendance).

5.3.2. Preparation of records of farm animals clinic.

5.3.3. Group discussion

5-Student assessment

5.1. Assessments methods:

Methods of assessments	Knowledge & Understanding	Intellectual Skills	Professional &Practical Skills	General &Transferable Skills
Written exam	a.1-a.4	b.1-b.4		
Practical exam		b.3	c.1-c.6	
Oral exam	a.1-a.4	b.1-b.4		d.1-d.6

5.2. Assessment schedules/semester:

Method	Week(s)
Practical exams	Managed by department administration
Final exams	Managed by faculty administration
Oral Exams	Managed by department administration

5.3. Weight of assessments:

Assessment	Weight of assessment
Practical and oral exams	50%
Final exams	50%
Total	100%

6- List of references

8.1. Notes and books
-None.

8.2. Essential books:
1- Veterinary clinical diagnosis (1984): W. R. Kelly 1984, 3rd. Ed, BilliereTindall, London.

2-Veterinary medicine: a textbook of the diseases of cattle sheep, pigs, goats and horses(2010):Radostits, O. M., Blood D. C., Gay, C. C., Arundal, J. H., 10th. Ed., BilliereTindall, London.

3- Large Animal Internal Medicine (1998): Timthy, H. Oglivie, Williams & Wilkins.

4- Small Animal Internal Medicine (1997): Darcy, Show and Sherri Ihle, Williams & Wilkins

*These books are available in the library of faculty of Veterinary Medicine, Beni-Suef University.

8.3. Recommended texts
1- Veterinary clinical examination and diagnosis (2000):Radostits O. M. , 1st. Ed. BilliereTindall, London

2 - Large animal internal medicine (1998): Bradford P. Smith, Mosby-Yearbook, Inc. USA.

*These books are found in the library of faculty of veterinary medicine, Beni-Suef University.

8.4. Journals
- Journal of Veterinary Internal Medicine - Wiley Online Library
- JVIM - American College of Veterinary Internal Medicine
- Veterinary Medicine International — An Open Access Journal
- Journal of Equine Veterinary Science - Elsevier
- The Journal of Applied Research in Veterinary Medicine
- British Veterinary Journal - ScienceDirect.com
- Journal of Equine Veterinary Science

Websites:
-www.Sciencedirect.com
- www.Pupmed.com
- www.google.com
- www.FAO

Course Coordinators	**Head of Department**
dr. EmadAbd El hamid Mohamed	prof dr. Hussein Ebrahem Hussein
Lecturer of Veterinary Internal Medicine	Professor of Infectious diseases
Faculty of Veterinary Medicine,	Faculty of Veterinary Medicine,
Beni-Suef University	Beni-Suef University

Course specification Matrix

	Topics	Knowledge and Understanding	Intellectual Skills	Practical and Professional Skills	General & Transferable Skills
1	Introduction to farm animal medicine.			c1-c6	d.1-d.6
2	Principles of clinical examination in farm animals.			c1-c6	d.1-d.6
3	Principal line of diagnosis and treatment in farm animals.			c1-c6	d.1-d.6
4	Principles of new modalities of diagnosis in farm animals			c1-c6	d.1-d.6
5	General systemic states in farm animals	a1-a4	b1-b4	c1-c6	d.1-d.6
6	Gastroenterology in farm animals.	a1-a4	b1-b4	c1-c6	d.1-d.6
7	Diseases of Cardiovascular system in farm animals	a1-a4	b1-b4	c1-c6	d.1-d.6
8	Diseases of respiratory system	a1-a4	b1-b4	c1-c6	d.1-d.6
9	Diseases of urinary system in farm animals	a1-a4	b1-b4	c1-c6	d.1-d.6
10	Introduction to neurology in farm animals	a1-a4	b1-b4	c1-c6	d.1-d.6
11	Veterinary dermatology (farm animals)	a1-a4	b1-b4	c1-c6	d.1-d.6
12	Diseases of Nutritional deficiency and metabolic disorders in farm animals	a1-a4	b1-b4		d.1-d.6
13	Students activities - Writing assays and reports.	a1-a4	b1-b4	c1-c6	d.1-d.6

Course specification

1-Basic information

Course title:	Infectious diseases of farm animals
Program title:	Diploma of farm animals
Contact hours/ week	4 hours/week, (2 Lect./week, 2 Practical/week)

2-Professional information

Overall aims of course:

This course aims to:

Employ the acquired knowledge of infectious diseases of farm animals together with other related topics and master different professional skills and techniques in diagnosis, prevention and control of infectious diseases of farm animals. Also, to support the basic knowledge about etiology, epizootiology, clinical sings, and diagnosis and control measures of infectious diseases of farm animals, demonstrate an understanding of basic control management procedures and protocols including isolation, quarantine and disinfection and provide opportunities to understand the molecular and cellular mechanisms of disease process.

3- Intended learning outcomes of course (ILOs)

A-Knowledge and understanding:
By the end of this course the student should be able to:
a1- Identify the basic knowledge about etiological agents and pathogenesis of different infectious diseases of farm animals.
a2- list the major field problems concerned with infectious diseases of farm animals.
a3- Mention the basic knowledge about the treatment and control measures of different infectious diseases farm animals.
a4- Identify the important aspects regarding the diagnosis of different infectious diseases of farm animals.

B- Intellectual skills
By the end of this course the student should be able to:

Course specification

b1- analyze the field problems to reach a preliminary diagnosis.

b2- suggest the suitable solutions during outbreaks and interpret the available data.

b3- use the basic information for analysis of epidemics of domestic animals and to enable the students how to interpret the available data to achieve diagnosis.

b4 -Enhance the ability to differentiate between infectious diseases of farm animals.

C-Professional and practical skills

By the end of this course the student should be able to:

c1- Perform the different methods and techniques of clinical examination.

c2- Perform the different sampling methods.

c3- Acquire the experience of planning of a control program.

c4- Plan and apply the different methods of control programs.

c5- Use epidemiological information of the early warning system for early diagnosis of infectious diseases.

D-General and transferable skills

By the end of studying the course, the student should be able to:

d1-Enhance the skills of problem definition and how to deal with it.

d2-Enhance skills of epizootiological data analysis, and clinical and laboratory examinations.

d3- Enhance the experience of taking history in infected farms and increase the ability of organizing control programs.

d4- Collect the data of diseased animals in an informative and suitable manner.

Course specification

4-Topics and contents

Course	Topic	hours	Lectures	Practical
Diploma of farm animals	Introduction of infectious diseases (Epidemiologic Triad, The chain of infection, An introduction to epidemiology, Maintenance of infection, and Principles of disease control).	20	18	2
	Infectious diseases of newly born animals	18	8	10
	Infectious diseases causing abortion.	26	6	20
	Infectious diseases causing digestive disorders.	24	4	20
	Infectious diseases causing respiratory manifestation.	32	18	14
	Parasitic diseases of farm animals	24	18	6
	Total	144	72	72

5-Teaching and learning methods
5.1- Lectures and oral presentations
5.2- Clinical sections.
5.3- The use of multimedia aids e.g slide projector, data show, video tapes.

7-Student assessment
7.1. Assessments methods:

Method	Matrix alignment of the measured ILOs/ Assessments methods			
	K&U	**I.S**	**P&P.S**	**G.S**
Final Exam	a1- a2- a3-a4	b1- b2- b3-b4		
Practical Exam		b1	c4	d1
Oral Exam	a1- a2- a3- a4	b1- b2-		

Course specification

		b3-b4-		

6.2. Assessment schedules/semester:

Method	Week(s)
Writing exam	During December
Practical exam	During December
Oral exam	During December

6.3. Weight of assessments:

Assessment	Weight of assessment
Writing exam	**50%**
Practical exam	**25%**
Oral exam	**25%**
Total	100%

8- List of references

8.1. Notes and books
- Infectious diseases of domestic animals (2004/1588) by H.I.Hosein (2018) 4th Ed.

8.2. Essential books:
- Veterinary medicine 7th ed (A text book of the diseases of cattle, sheep, pigs, goats and horses) 1983.
- Veterinary clinical diagnosis 3th Ed. 1984
- Cattle diseases 1984
- Diseases of sheep 2nd Ed. 1982
- A color atlas of small animal dermatology 1985

8.3. Recommended texts
- The Merck veterinary manual 9th 2005

8.4. Journals, Websites ……..etc
Journals:
Journal of Veterinary Science
Research in Veterinary Science
Preventive Veterinary Medicine
The veterinary journal
Journal of Veterinary Diagnostic Investigation

Course specification

Websites:
1-www.google.com
2-www.OIE
3-www.FAO
4-www.Canine web sites

Course Coordinators   Head of Department

Dr. Hosein Abd Al Aal

Course specification

Topic	Week	Intended learning outcomes of course (ILOs)			
		K&U (a)	I.S (b)	P.P.S (c)	G.T.S (d)
Introduction of infectious diseases	1-6	a1,a2			
Infectious diseases of newly born animals	7-11	a1- a2- a3- a4	b1-b2-b3-b4		d1- d2 d3
Infectious diseases causing abortion.	12-16	a1- a2- a3- a4	b1-b2-b3-b4		
Infectious diseases causing digestive disorders.	17-21	a1- a2- a3	b1-b2-b3-b4	c2, c4	d3, d4
Infectious diseases causing respiratory manifestation.	22-26	a1- a2- a3- a4	b3-b4	c2	
Parasitic diseases of farm animals	27-36	a1- a2	b1-b2-b3		

Beni-Suef University
Faculty of Veterinary Medicine
Department of Nutrition and Clinical Nutrition
Course Specification

1- Basic information:

Code No.: **D13 -C**	Course title: **Animal Nutrition & deficiency diseases**	Academic Year: 1st
Teaching Hours: Lecture: 1 Practical: 1 Total: 2		Specialization: Postgraduate Diploma of **Farm Animal diseases**

2- Overall aims of the Course:

By the end of this course, the student be able to:
❖ Apply acquired scientific knowledge in the field of animal nutrition and deficiency diseases.
❖ Detect the current problems facing feed industry and suggest the appropriate solutions.
❖ Apply all professional skills and use the appropriate technological means in nutrients requirements calculation
❖ Communicate effectively and lead teamwork efficiently.
❖ Take decisions using the available information.
❖ Effectively use the available facilities and resources.
❖ Aware of his/her role in community development and environmental conservation in the area of animal nutrition.
❖ Commit the moral and legal rules of nutrition specialist.
❖ Aware the importance of self development and continuous learning in the field of animal nutrition and prevention of deficiency diseases.

3- Intended Learning Outcomes:

a- Knowledge and Understanding	By successful completion of the course, the student should be able to:
	a1. Recall information about animal nutrient requirements, animal feed stuffs and bases of animal feed formulation.
	a2. Outline specialized theories and knowledge in the field of animal nutrition and related sciences.
	a3. Identify the legal and moral rules in practices targeting diagnosis of animal nutritional disorders.
	a4. Specify the different quality management systems in animal feeding practices.
	a5. Recognize the role of his/her professional practices in community development and environmental conservation.
	a6. Describe the different nutritional problems prevention and control

measures and the role of each in keeping healthy environment, protecting human health and developing the surrounding community.

b- Intellectual Skills	By successful completion of the course, the student should be able to:

b1. Detect and analyze problems facing animal nutrition and arrange them according to their priorities.

b2. Suggest the appropriate solutions for problems related to feed industry.

b3. Make scientific reading and analysis of research papers and topics related to nutritional deficiencies.

b4. Asses different nutritional factors for each practice related to digestibility and requirements.

b5. Take decisions using the available information.

b6. Plan for diagnostic scheme application in different ration formulation conditions and develop an approach to solve a field problem.

c- Professional and Practical Skills:	By successful completion of the course, the student should be able to:

c1. Apply different professional skills and techniques in diagnosis of animal nutritional disorder.

c2. Prepare a sheet for field case history and write a nutritional report.

c3. Demonstrate all essential nutrients, nutritional requirements, feeding systems and high quality ration formulation.

d- General and Transferable Skills:	By successful completion of the course, the student should be able to:

d1. Communicate effectively using different means.

d2. Properly use the information technologies for development of his/her professional abilities.

d3. Assess him / her self and learn how to detect his/her learning requirements.

d4. Use different facilities for gaining knowledge and information.

d5. Learn how to work effectively as part of a team properly manages the time.

d6. Lead teamwork effectively.

d7. Understand the significance and means of continuous self learning.

4- Course Contents:

Week	Course description	Total (hr)	Lectures (hr)	Practical (hr)
1-3	**Animal nutrition fundamentals** **Composition of the animal body and its food**	3	3	-
4-7	**Water and its metabolism** **Carbohydrates and their metabolism** **Proteins and their metabolism** **Lipids and their metabolism.**	4	4	-
8-11	**Minerals- macro & microelements** **- Introduction, distribution, functions** **- Deficiencies, supplements**	4	4	-
12-15	**Vitamins** **- Vitamin and animal health** **- Fat-soluble vitamins** **- Water-soluble vitamins**	4	4	-
16-18	**Feed intake and factors affecting**	3	3	-
19-21	**Digestion & absorption** **Digestibility of feeds**	3	3	-
22-23	**Feeding standards and nutritional requirements for:** **-maintenance** **-growth** **-fattening**	2	2	-
24-26	**-reproduction and lactation** **-work production** **-wool production**	3	3	-
27-29	**Feeding farm animals** **-Feeding dairy cows and calves** **-Feeding buffalos**	3	3	-
30-31	**-Feeding sheep and goat** **-Feeding camel**	2	2	-
32-33	**-Feeding equine**	2	2	-
34	**Feed additives-** **-Introduction**	1	1	-
35-36	**-Nutritional feed additives** **-Non Nutritional feed additives**	2	2	-
1-4	**Feedstuffs** **- Classification of feedstuffs**	8	-	8

	- **Nutrition terms**			
5-9	**-Concentrates as energy sources & deleterious factors** **-Plant protein sources & deleterious factors**	10	-	10
10-12	**-Animal protein sources and deleterious factors** **-Forage and roughage**	6	-	6
13-16	**-Feed processing and manufacture**	8	-	8
17-20	**Ration formulation for animals and poultry**	8	-	8
21-23	**Feedstuffs analyses** **-Physical inspection**	6	-	6
24-28	**-Microscopical examination** **-Chemical analyses** **-Using standard feed analyses tables**	10	-	10
29-31	**Animal feed safety and feed manufacturing** **-Feed contaminants and its sources**	6	-	6
32-34	**-Environmental factors inducing feed deterioration** **-Mycotoxins and its importance** **-Pesticides**	6	-	6
35-36	**-Heavy metals** **-Feed manufacturing quality assurance and its monitoring**	4	-	4
	Student activities: - **Writing assays** - **Internet search**	-	-	-
	Total	108	36	72

5- Teaching and Learning Methods:	**Lectures:** Depends on the sharing efforts of the students and supported with macromedia and multimedia aids. **Practical sections:** - Identification of feedstuffs and their evaluation. - Laboratory feed inspection and chemical analysis. - Requirements calculation and ration formulation. **Self learning:** Electronic learning, Seminars, scientific search on related websites, international, national and local journals, related books in faculty library. **Training visits**: Visits to poultry farms and poultry feed processing plants. **Assays and reviews** **Discussion groups**
6- Teaching and Learning	**Not applicable**

Methods for Handicapped:	

7- Students assessment:

Methods of assessments:	Schedule	Weighing (degrees)	Intended learning outcomes
a) **Written exam** by the end of 1st year	**Week: 37, 38, 38**	50	a1 to a6 b1 to b6
b) **Practical exam** by the end of 1st year	**Week: 36**	30	a1 to a6 b1 to b6 c1 to c3
c) **Oral exam** by the end of 1st year	**Week: 37, 38, 38**	20	a1 to a6 b1 to b6 c1 to c3 d1 to d7

8- List of References:

a- Course notes:	**Textbook of Animal and Poultry Nutrition – part 1** **Practical of feedstuffs and ration formulation – part 1** **Textbook of Animal and Poultry Nutrition – part 2** **Practical of feedstuffs and ration formulation – part 2** **Textbook of Human Nutrition and Animal Byproducts.**
b- Essential books:	**a- McDonald, P.,R.A .Edwards and J.F.D. Greenhalgh (1987} , Animal Nutrition, 4th edition .** **b- Cheeke , P.R.(1991): Applied Animal Nutrition, Feeds and Feeding.** **C- Pond, W. G., D.C. Church, and K .R. Pond (1995): Basic Animal Nutrition and Feeding, 4th edition.** **d- Gillespie, J.R.(1987): Animal Nutrition and Feeding.** **e- Church, D .C. (1991): Livestock Feeds and Feeding 3rd edition.** **.**

c- Recommended books	a- Cheeke, P.R. (1987): Rabbit Feeding and Nutrition. b- National Research Council (1988): Nutrient Requirements of Dairy Cattle, 6th rev .ed. Washington, D.C.: National Academy of Sciences. c- National Research Council (1985): Nutrient Requirements of Sheep, 6th rev. ed. Washington, D.C.: National Academy of Sciences. d- National Research Council (1996): Nutrient Requirements of Beef cattle, 7th rev. ed. Washington, D.C.: National Academy of Sciences. e- Frappe, D. (1998): Equine Nutrition And Feeding .2nd ed.
d- Periodicals, websites,…….etc	**Journals** **-Journal of Nutrition** **-Journal of Animal Science** **-Journal of Agriculture Science** **-Nutrition Abstracts and Reviews** **-Journal of Poultry Science** **-Journal of small ruminant Nutrition** **-Veterinary Record** **-Journal of Dairy Science** **-American Journal of veterinary research** **- Research on veterinary Science** **Web sites:-www.google.com -www. FAO -** **www.Sciencedirect.com- www. Net veterinary resources-** **Agricultural sites -www. veterinary and agricultural web** **resources, livestock and poultry**

Course Coordinator   **Head of Department**

Name: Dr. Ibrahim M. Ibrahim   **Prof. Dr. Elham Saleh**
Sig.   :

Date :

National Authority For Quality Assurance and Accreditation of Education

National Authority For Quality Assurance and Accreditation of Education

Beni-Suef University
Faculty of Veterinary Medicine
Department of Nutrition and Clinical Nutrition

Course title   : Poultry and Rabbit Diseases
Course code: D13-C

Course Matrix for Achievement of Intended Learning Outcomes

Topics		Wk	Knowledge and Understanding	Intellectual Skills	Practical and Professional Skills	General & Transferable Skills
1	**Animal nutrition fundamentals** **Composition of the animal body and its food**	**1-3**	**a1, a2, a3**	**b1,b2,b3,b6**	-	**d1, d2**
2	**Water and its metabolism** **Carbohydrates and their metabolism** **Proteins and their metabolism** **Lipids and their metabolism.**	**4-7**	**a1, a2, a3**	**b1,b2,b3**	-	**d1, d2**
3	**Minerals- macro & microelements** **- Introduction, distribution, functions** **- Deficiencies, supplements**	**8-11**	**a1, a2, a3**	**b1,b2,b3**	-	**d1, d2**
4	**Vitamis** **- Vitamin and animal health** **- Fat-soluble vitamins** **- Water-soluble vitamins**	**12-15**	**a1, a2, a3**	**b1,b2,b3**	-	**d1, d2**
5	**Feed intake and factors affecting**	**16-18**	**a1, a2, a3**	**b1,b2,b3**	-	**d1, d2**
6	**Digestion & absorption** **Digestibility of feeds**	**19-21**	**a1, a2, a3**	**b1,b2,b3**	-	**d1, d2**
7	**Feedstuffs** **- Classification of feedstuffs** **- Nutrition terms**	**1-4**	**a1, a2, a3**	**b1,b2,b3**	-	**d1, d2**
8	**-Concentrates as energy sources & deleterious factors** **-Plant protein sources & deleterious factors**	**5-9**	**a1, a2, a3**	**b1,b2,b3**	-	**d1, d2**
9	**-Animal protein sources and deleterious factors** **-Forage and roughage**	**10-12**	**a1, a2, a3**	**b1,b2,b3**	-	**d1, d2**
10	**-Feed processing and manufacture**	**13-16**	**a1, a2, a3**	**b1,b2,b3**	-	**d1, d2, d3**
11	**Feeding standards and nutritional requirements for:** **-maintenance**	**22-23**	**a1, a2, a3**	**b1,b2,b3**	-	**d1, d2, d3**

	-growth **-fattening**					
12	**-reproduction and lactation** **-work production** **-wool production**	**24-26**	a1, a2, a3	b1,b2,b3	-	d1, d2
13	**Feeding farm animals** **-Feeding dairy cows and calves** **-Feeding buffalos**	**27-29**	a1, a2, a3	b1,b2,b3	-	d1, d2
14	**-Feeding sheep and goat** **-Feeding camel**	**30-31**	a1, a2, a3	b1,b2,b3	-	d1, d2
15	**-Feeding equine**	**32-33**	a1, a2, a3	b1,b2,b3	-	d1, d2
16	**Ration formulation for animals and poultry**	**17-20**	a1, a2, a3	b1,b2,b3	-	d1, d2
17	**Feed additives-** **-Introduction**	**34**	a4, a5	b6,b7,b9	c2,c5	d3, d4, d5,d7,d8,d9
18	**-Nutritional feed additives** **-Non Nutritional feed additives**	**35-36**	a3	b3,b4	c2,c5	d3, d4, d5,d7,d8,d9
19	**Feedstuffs analyses** **-Physical inspection**	**21-23**	a5	b1,b2	c1, c2, c3,c4	d3, d4, d5
20	**-Microscopical examination** **-Chemical analyses** **-Using standard feed analyses tables**	**24-28**	a2, a4, a5	b1,b2,b8,b9	c1, c2, c3,c4	d3, d4, d5,d7,d8,d9
21	**Animal feed safety and feed manufacturing** **-Feed contaminants and its sources**	**29-31**	a2, a4	b1,b2,b4	c1, c2, c3,c4	d2, d4, d5
10	**-Environmental factors inducing feed deterioration** **-Mycotoxins and its importance** **-Pesticides**	**32-34**	a1, a2, a3	b1	c1, c2, c3,c4	d2, d4, d5
11	**-Heavy metals** **-Feed manufacturing quality assurance and its monitoring**	**35-36**	a3,a4, a5	b1,b2	c1, c2, c3,c4	d2, d4, d5
Student activity		**Along the course**	a1, a2, a3, a4	b1, b2, b3	c3, c4	d1, d2, d3, d4,d7

Beni-Suef University
Faculty of Veterinary Medicine

Course specification of postgraduate

Course Code:	D	
Course title :	Special surgery	
Program title:	Diploma of Vet. Med. Sciences (farm animals).	
Contact hours/ week	Lecture: 1h / week	Practical: 1 h / week
Approval Date		

2-Professional information

Overall aims of course:

This course aims to:

1. Understanding the academic background and practical experience about Special surgery.
2. Have the academic background and practical experience about basic principles of surgical interferences and treatment of surgical affections of different body systems.

3- Intended learning outcomes of course (ILOs)

A- Knowledge and understanding:

By the end of this course the student should be able to:

a.1. Recognize causes , and diagnosis of surgical affections of different body systems.

a.2. Outline the basic principles in dealing with surgical affections

a.3. Recall the basic principles of anesthetic techniques and materials.

a.4. Describe the relationship between the used anesthetic techniques and materials and surgical interferences according to the surgical field.

B-Intellectual skills

By the end of this course the student should be able to:

b.1. Discriminate and analysis of clinical and laboratory findings to reach the accurate diagnosis.

b.2. Interpret and predict the prognosis and sequllae of surgical affections.

b.3. Score of suitability of using defined Surgical techniques.

b.4. identify areas where further researches necessary and be aware of any which would be beyond current ethical codes.

C- Professional and practical skills

By the end of this course the student should be able to:

c.1. Assess experience in clinical and laboratory diagnosis of surgical affections

c.2. Perform different surgical techniques.

c.3. using the new technology in practical portion.

c.4. follow up the treated cases and control of postoperative complications.

D- General and transferable skills

By the end of studying the course, the student should be able to:

d.1 Demonstrate information retrieval and library skills

d.2 Demonstrate interpersonal skills and team working ability by the successful completion of collaborative learn assignment and the honors researches projects

Course specification of postgraduate

d.3. present research finding in oral and written from using arrange of appropriate software (e.g., power point , word , excel and data base).

d.4. use all types of communications skills.

4-Topics and contents

Course	Topic	No. of hours	Lectures	Practical
(Lec. 1h./week, Pract. 1h./week)	- **Teeth affections**	**8**	**4**	**4**
	- **Digestive system affections**	**12**	**6**	**6**
	- **Urinary system affections**	**10**	**5**	**5**
	- **Genital system affections**	**10**	**5**	**5**
	- **Hernia and abdominal muscles affections**	**10**	**5**	**5**
	- **Back and tail affections**	**6**	**3**	**3**
	- **Udder and t eat affections**	**8**	**4**	**4**
	- **horn affections**	**8**	**4**	**4**
	total	**72**	**36**	**36**

5-Teaching and learning methods

5.1- Lectures (brain storm, discussion) using board, data shows

5.2- Self learning by preparing essays and presentations (computer researches and library)

5.3- Practical application of advanced surgical technique (models, samples of tissues and data show).

5.4- Self learning by preparing essays and presentations (computer researches and library)

7-Student assessment

7.1. Assessments methods:

Method	Matrix alignment of the measured ILOs/ Assessments methods			
	K&U	**I.S**	**P&P.S**	**G.S**
Final Exam	a1- a2- a3-	b1- b2- b3-	c1- c2- c3-c4	d1- d2
Practical Exam	a1- a2- a3	b1- b2- b3-	c1- c2- c3-c4	
Oral Exam	a1- a2- a3-	b1- b2- b3-	c1,c3	d1-d2-d3-d4

Course specification of postgraduate

7.2. Assessment schedules

Method	Week(s)
Writing exam	December
Practical exam	December
Oral exam	December

7.3. Weight of assessments

Assessment	Weight of assessment
Writing exam	50%
Practical exam	25%
Oral exam	25%
total	100%

8- List of references

8.1. Notes and books

-Veterinary surgery.   D.Knech. R.AIIen.   1987

8.2. Essential books:

-Farm Animal Surgery.   Susane Fubini.   1987

8.3. Recommended texts

- Atlas of general small animal surgery.   Caywood. Lipowitz.   1989
- Complications in small animal surgery.   Alan.J. lipowitz   2015

8.4. Journals, Websites ……..etc

Journals: Veterinary surgery, Veterinary Clinics of North America.

Websites:

WWW.Science direct
WWW. Pubmed.com
WWW.Scholar google.com
WWW.welly interscience

Program coordinator
Name: Dr. Mohamed Zaki Fathy
Signature.............................. Date

Head of the Department
Name: Prof.Dr. Gamal Abdel Nasser
Signature.......................... Date

Course specification

	Topics	week	Intended learning outcomes of course (ILOs)			
	Special Surgery		K and U (a)	I.S (b)	P. P.S. (c)	G.T.S (d)
1	- Teeth affections	- 1st w- 4th w	1,2,3	1,2,3	1,2,4	1,2,3
2	- Digestive system affections	- 5th w- 10th w	1,2,3	1,3	1,2,4	1,2,4
3	- Urinary system affections	- 11th w- 15th w	1,2	1,2,3	1,2,3	1,2,4
4	- Genital system affections	- 16th w- 20th w	1,2	1,2,3	1, 3	1,2,3,4
5	- Hernia and abdominal muscles affections	- 21st w- 25th w	1,2,3	1,2,3	1,2,4	1,2,3
6	- Back and tail affections	- 26th w- 28th w	1,3	1,4	1,3,4	1,2,4
7	- Udder and t eat affections	- 29th w- 32th w	1,2	1,2,3	1,2,3	1,2,3,4
8	- horn affections	- 33th w- 36th w	1,2,3	1,2,3	1,2,4	1,2,3

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