



Beni-Suef University
Faculty of Veterinary Medicine

Course specification of postgraduate

1-Basic information

Course Code:	D1-A
Course title :	Extension methods
Program title:	Diploma of Vet. Med. Sciences (extension veterinary)
Contact hours/ week	3 hours/ week (Lect.1h./week; Pract.2h./weeks)
Approval Date	

2-Professional information

Overall aims of course:

This course aims to:

- 1- Understanding the role of veterinarian in maintaining healthy environment.
- 2- Practicing skills of communication with farmers, stakeholders and animal dealers & solving a problem related to poor hygiene.
- 3- identify hygienic and health problems in veterinary field, principles of prevention and control of contagious diseases

3- Intended learning outcomes of course (ILOs)

a- Knowledge and understanding:

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

- a1. Define veterinary extension, Environmental sanitation and Ecosystem.
- a2. Realize the impact of veterinary extension in improving health and production of animals
- a3. Describe the emerging diseases and role of animal owners in their control and eradication.
- a4. Explain the role of veterinary extension in maximizing the economic profits of farmers.
- a5. Describe the role of effective communication in achieving successful animal production.
- a6. Solving the problems in the different animal farms that can lead to spreading of diseases such as disposal of animal wastes and external parasite & rodent.

b- Intellectual skills

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

- b1. Collect and analyze data about livestock farms and surveying of health problems.
- b2. Estimate the hygienic and productive problems facing farmers and animal owners.
- b3. Develop a plan to communicate with people, instruct them and be effective in management of these problems.
- b4. Assessing the economic benefits of diseases control.
- b5. Evaluate the risk assessment to put a strategy for disease prevention, control and eradicate diseases

c- Professional and practical skills



Course specification of postgraduate

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

- c1. Interpret the health problems related with animal production in the locality.
- c2. Practicing the impact of diseases on farmers and animal owners.
- c3. Apply effective communication skills with animal owners and stakeholders.
- c4. Use statistical methods for diagnosing the extent of problems existed in the society.
- c5. Demonstrate the best methods for solving health problems of animal production farms.
- c6. Solve the environmental problems contributing in disease spreading such as waste disposal and rodent.
- c7. Schedule an education program for veterinarian, owners and others for methods of prevention of animal diseases.

d- General and transferable skills

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

- d1. Demonstrate and solving environmental problem.
- d2. Utilize group working in diseases prevention and control.
- d3. Able to communicate with specialists.
- d4. Participate in private business
- d5. Use computer and internet skills in communication and presentation.
- d6. Use statistical methods for analysis of the obtained data.

4-Topics and contents

Course	Topic	No. of hours	Lectures	Practical
Course Title: Extension methods (Lect.1 h./week, Pract. 2h./week)	Course description	2	2	-
	Veterinary extension and food safety	18	8	10
	Ecosystem and Ecological studies	12	4	8
	Environmental sanitation	12	4	8
	Principles of control of disease	16	8	8
	Disinfection and disinfectants	24	6	18
	Disposal of animal wastes	12	4	8
	Control of external parasites & rodents	12	-	12
	Student activities: - Animal and poultry farms visits Writing assays	-	-	-
	Total	108	36	72

5-Teaching and learning methods

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



Beni-Suef University
Faculty of Veterinary Medicine

Course specification of postgraduate

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

5.3- Practical and small groups' sessions

5.4- Training visits: to animals and poultry farms

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
written Exam	a1 to a6.	b3-b5.	c1.	d1
Practical Exam	a6.	b1 to b5.	c1 to c7.	d2,d3,d6
Oral Exam	a1 to a6.	b3-b5.	c1	d1-d3

7.2. Assessment schedules

Method	Week(s)
Practical exams	45
written exams	45-48
Oral Exam	45-48

7.3. Weight of assessments

Assessment	Weight of assessment
Practical exams	30
Final exams	50
Oral Exam	20
total	100

8- List of references

8.1. Notes and books

Departmental notes on:

- Text book of Animal, Poultry and Environmental Hygiene(Parts I & II) Professor/ Mohammed Abdel Rahman Elbably and Dr/ Asmaa Nady Mohammed

Practical notes on Animal, Poultry and Environmental Hygiene (Parts I & II)

Professor/ Mohammed Abdel Rahman Elbably and Dr/ Asmaa Nady Mohammed

8.2. Essential books:

- A University Press, London.
- Farm Animal Health. A practical Guides. Cullen, P.T. (1991): 1st Ed.
- Pollution in Livestock Production Systems. Dewi, A.P.; Axford, R. F. E.; Marai, I. F. M. and Omed, H. (1994): CAB International. Wallingford, UK.



Beni-Suef University
Faculty of Veterinary Medicine

Course specification of postgraduate

- Animal Health. Geer, B. K. (1980): A Layman`s guide to disease control. 2nd ed. Interstate printers and Publishers, USA. Dictionary of Epidemiology. Last, A. M. (1983): Oxford.

8.3. Recommended texts

1. Pollution Science. Pepper, I. L.; Gerba, C. P. and Prussea, M. L. (1996): Academic Press, Inc., California, and USA.
2. Principals of Cattle Production. Philips, C. J. C. (2001): CABI Publishing, Wallingford, UK.
3. Poultry Health and Management. Sainsbury, D. (1993): 3rd Ed. Blackwell, ublication, U.k.
4. Guidelines for Drinking Water Quality. W.H.O. (1985): Geneva

8.4. Journals, Websitesetc

- **Journals:** Journal of Animal Science
- Journal Toxicology and Environmental Health
- J. Environmental monitoring and assessment
- Environmental pollution

Websites:

www.educations.com.....

www.thepigsite.com/

www.disinfectants1.com

www.rvc.ac.uk

Course Coordinators

Head of Department

Asmaa Nady Mohammed



Beni Suef University
Faculty of Veterinary Medicine

Course specification

	Topics	week	Intended learning outcomes of course (ILOs)			
	1 st semester		K and U (a)	I.S (b)	P. P.S. (c)	G.T.S (d)
1	Course description		a1,a2			
2	Veterinary extension and food safety		a4	b2	C2	d1
3	Ecosystem and Ecological studies		a3	b3	C5	D3
4	Environmental sanitation		a 3	b3	C5	d1,3
5	Principles of control of disease		a 6	b 5	C 5	d 2
6						
7						
8						
9						
	2nd semester					
10	Disinfection and disinfectant		a 6	b4	C5	d 1
11	Disposal of animal wastes		a 6	b3	C5	d 1
12	Control of external parasites & rodents		a 6	b3	C5	d 1
13	Student activities		a 6	b4	C5	d 1
14						
15						



Beni Suef University
Faculty of Veterinary Medicine

PROGRAMME SPECIFICATIONS

Programme Specification

University: Beni-Suef University

Faculty: Veterinary Medicine

A- Administrative Information

1. Programme title: Diploma of Vet. Med. Sciences (**Diploma of Veterinary extension**)
2. Award/degree: Diploma
3. Department responsible: Dept. of Hygiene, Zoonoses and Epidemiology.
4. Coordinator:
5. External evaluator(s)
6. Date of most recent approval of programme specification by the Faculty Council:

B- Professional Information

- 1. Programme main goals:** The Diploma programme support the postgraduate student ability to: introduce the awareness for farmers, stakeholders and animal dealers in veterinary field for prevention and control of contagious diseases in addition to how can you find a solutions to health problems facing animals.

-Objectives:

- a) Identify hygienic and health problems in veterinary field.
- b) Apply the principles of prevention and control of contagious diseases.
- c) Acquire skillscommunication with farmers, stakeholders and animal dealers & solving a problem related to poor hygiene.
- d) Understanding the role of veterinarian in maintaining healthy environment and food safety.
- e) Aware of his/her role in community development and environmental conservation in the area of Animal, Poultry and Environmental Hygiene.
- f) Detect the current problems facing Animal, Poultry and Environmental Hygiene and suggest the appropriate solutions.

2. Intended learning outcomes (ILOs) for programme

a- Knowledge and understanding:

By the end of the Diploma program, the postgraduate must be able to:

- a1. Define veterinary extension and veterinary hygienic systems.
- a2. Realize the impact of veterinary extension in improving health and production of animals.

- a3. Describe the emerging diseases and role of animal owners in their control and eradication.
- a4. Recognize the role of his/her professional practices in community development and environmental conservation.
- a5. Explain the role of veterinary extension in maximizing the economic profits of farmers.
- a6. Explain the environmental role in transmission of diseases to animals.
- a7. Outline specialized theories and knowledge in the field of Animal, Poultry and Environmental Hygiene and related sciences.

b- Intellectual skills

By the end of the Diploma program, the postgraduate must be able to:

- b1. Interpret and analyze data about disease occurrence, distribution and risk factors.
- b2. Judge the efficiency of hygienic measures in animal production farms.
- b3. Differentiate between the hygienic and productive problems facing farmers and animal owners.
- b4. Develop a plan to communicate with people, instruct them and be effective in management of these problems.
- b5. Develop a plan to communicate with people, instruct them and be effective in management of these problems

c- Professional and practical skills

By the end of the Diploma program, the postgraduate must be able to:

- C1. Able to describe the disease events precisely.
- C2. Estimate the impact of diseases on farmers and animal owners.
- C3. Apply effective communication skills with animal owners and stakeholders.
- C4. Demonstrate the different important hygienic problems associated with intensive animal production in Egypt.
- C5. Apply different professional skills and techniques in problems solving related to veterinary field.
- C6. Write specialized reports related to animals and environmental samples examination.

d- General and transferable skills

By the end of the Diploma program, the postgraduate must be able to:

- d1. Utilize group working in diseases prevention and control.
- d2. Use statistical methods for analysis of the obtained data
- d3. Learn how to work effectively as part of a team properly manage the time
- d4. Properly use the information technologies for development of his/her professional abilities

3- Academic standards

* The faculty mission, vision and strategic objective are confirmed to the academic standard. The learning outcomes are in line 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, Beni-Suef University, Beni-Suef, 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
1- طرق ارشاد	1	2	3
2- اعلام (وسائل الاعلان والاعلام)	2	2	4
3- احصاء حيوى وكمبيوتردراسات جدوى	2	-	3
4- انظمة صحية بيطرية	2	2	4
5- اقتصاد مزارع	1	-	1
Total	8	6	15

5- Programme – course ILOS Matrix

ILOS Courses	Knowledge and understanding							Intellectual skills					Professional and practical skills						General and transferable skills			
	a1	a2	a3	a4	a5	a6	a7	b1	b2	b3	b4	b5	c1	c2	c3	c4	C5	C6	d1	d2	d3	d4
1- طرق ارشاد	x	x			x			x	x	x	x	x	x			x		x	x		x	
2- اعلام (وسائل الاعلان والاعلام)	x				x					x	x		x	x							x	x
3- احصاء حيوى وكمبيوتردراسات جدوى				x			x	x									x		x			x
4- انظمة صحية بيطرية		x	x			x			x		x				x	x			x		x	
5- اقتصاد مزارع							x				x						x				x	

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 year.
- 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 practice 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: AsmaaNady Mohammed

Signature..... Date

Head of the Department of Hygiene, zoonoses and Epidemiology

Name: ...Mohammed Ali

Signature.....

Date



Course specification of postgraduate

1-Basic information

Course Code:	D1-D
Course title :	Veterinary Hygienic systems
Program title:	Diploma of Vet. Med. Sciences (extension veterinary)
Contact hours/ week	4 hour /week (Lect.2h/week; Pract. 2h./week)
Approval Date	

2-Professional information

Overall aims of course:

This course aims to: describe the hygienic problems in veterinary field and associated with intensive animal production in Egypt. Realize Principles of prevention and control of contagious diseases, choose the best method of hygienic disposal of waste. Solving problems related to poor hygiene

3- Intended learning outcomes of course (ILOs)

a- Knowledge and understanding:

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

- a1. Recall the terms of hygiene, environmental pollution, ecology and Ecosystem.
- a2. Realize methods used for hygienic disposal of wastes in addition to prevention, control and eradication of disease.
- a3. Describe the role of the veterinarian in maintaining animal and environmental health in different system of animal housing.
- a4. Explain the environmental role in transmission of diseases to animals.
- a5. Discuss the relation between hygiene and disease occurrence in animal farms.
- a6. Solving the problems in the different animal farms that can lead to spreading of diseases

b- Intellectual skills

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

- b1. Collect and analyze data about disease occurrence, distribution and risk factors.
- b2. Judge the efficiency of farm hygiene in animal production farms.
- b3. Investigate the hygienic problems in livestock field
- b4. Judge on the most important diseases affecting different animals and man.
- b5. .Able to interpret between agent – host – environment and the interaction of disease determinants, herd immunity and causation of diseases.
- b6. Suggest methods of assessing the economic benefits of diseases control.
- b7. Apply a strategy for disease prevention, control and eradicate infectious diseases and choose the best method of hygienic disposal of waste.

c- Professional and practical skills

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

- c1. Able to describe the disease events precisely



Course specification of postgraduate

- c2. **Examine** the different methods for assessing the environmental role on occurrence of diseases.
- c3. Estimate disease occurrence (pattern and frequency)
- c4. Collect samples from the affected populations for further investigations to ascertain the disease.
- c5. Demonstrate the different important hygienic problems associated with intensive animal production in Egypt.
- c6. Apply the basis of disease control in animal production farms.
- c7. Recognize the best methods for solving health problems of animal production farms.

d- General and transferable skills

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

- d1. Demonstrate and solving environmental problem.
- d2. Utilize group working in diseases prevention and control.
- d3. Able to communicate with specialists.
- d4. Participate in private business
- d5. Use statistical methods for analysis of the obtained data

4-Topics and contents

Course	Topic	No. of hours	Lectures	Practical
Course Title: Veterinary hygienic systems (Lec.2 h./week, Pract. 2h./week)	Course description	2	2	-
	Ecosystem and ecological studies	20	8	12
	Environmental pollution	28	10	18
	Environment and animal health	8	8	-
	System of animal housing	24	18	6
	Animal wastes (Methods of hygienic disposal)	28	12	16
	Control of contagious diseases	34	14	20
	Student activities: - Animal and poultry farms visits - Writing assays			
	Total	144	72	72

5-Teaching and learning methods

- 5.1- Lectures (brain storm, discussion) using board, data shows
- 5.2- Self learning by preparing essays and slide presentations (computer researches and faculty library)
- 5.3- Practical and small groups' sessions
- 5.4- **Training visits:** to animals and poultry farms.



Course specification of postgraduate

5.5- Summer training course

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
written Exam	a1 to a6.	b2,4,6.	c1, 2, 3,5.	d1
Practical Exam	a6.	b1,2,3,4,5,7.	c1 to c7.	d2,3,4,5
Oral Exam	a1 to a6.	b5-b6.	c1	d1-d3

7.2. Assessment schedules

Method	Week(s)
Practical exams	45
Final exams	45-48
Oral Exam	45-48

7.3. Weight of assessments

Assessment	Weight of assessment
Practical exams	30%
Final exams	50%
Oral Exam	20%
total	100

8- List of references

8.1. Notes and books

Departmental notes on:

- Text book of Animal, Poultry and Environmental Hygiene(Parts I & II) Professor/ Mohammed Abdel Rahman Elbably and Dr/ Asmaa Nady Mohammed

Practical notes on Animal, Poultry and Environmental Hygiene (Parts I & II)

Professor/ Mohammed Abdel Rahman Elbably and Dr/ Asmaa Nady Mohammed

8.2. Essential books:

1. A Manual Of Veterinary Hygiene Sir Frederick Smith (Author) Published By: General Books
2. Water pollution (causes, effects and control) P.K Goel
3. Animal Health and Housing. "David Sainsbury", London, Bailliere, Tindal and Cassel 1997.
4. Animal Health and Housing. "David Sainsbury" Blackwell Science 2000.
Disinfection, Sterilization and preservation Seymour S Block, Block Lea Febiger (1991)



Beni-Suef University
Faculty of Veterinary Medicine

Course specification of postgraduate

8.3. Recommended texts

1. Veterinary Hygiene by Robert Georg Linton (Paperback - 8 Jan 2010)
2. A Manual of Veterinary Hygiene Sir Frederick Smith (Author) Published By: General Books

Fundamental pollution: By Krishman Kannan 1997, S. Chard and Company

8.4. Journals, Websitesetc

- **Journals:**
- Journal of Animal Science
- Journal Toxicology and Environmental Health
- J. Environmental monitoring and assessment
- Environmental pollution

Websites:

1. www.thepigsite.com/
2. www.disinfectants1.com
3. www.thepigsite.com/
4. www.disinfectants1.com

-www.rvc.ac.uk

Course Coordinators

Dr. Asmaa Nady Mohammed

Head of Department

Prof. Mohamed Ali



Beni Suef University
Faculty of Veterinary Medicine

Course specification

	Topics	week	Intended learning outcomes of course (ILOs)			
	1 st semester		K and U (a)	I.S (b)	P. P.S. (c)	G.T.S (d)
1	Introduction	1	a1,a2	b1	C1,2	d2
2	Ecosystem and ecological studies	1-4	a1,4	b2,5	C2	d1
3	Environmental pollution	5-10	a1,4	b3	C4	d1,2
4	Environment and Health	10-12	a1,a4	b2	C1	d1,2
5						
	2nd semester					
10	System of animal housing	13-20	a3, 5	b 2	C1,3,4,6	d1,3,4,6
11	Animal wastes (Methods of hygienic disposal)	21-27	a2,4,6	b7	C2,7	d 2
12	Control of contagious diseases	28-35	a 2	b1,5,6,7	C1,3,7	d 2,3,5
13	Student activities:	36	a 3,6	b 1,2	C4,5,6,7	d 1,2,3,4,5



Beni Suef University
Faculty of Veterinary Medicine