<u>Course Specification of Infectious Diseases (2)</u>

I.	Course Identification and General Information:	
1	**Course Title:**	Infectious Diseases (2)
2	**Course Number & Code:**	IM463

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

4	**Study level/ semester at which this course is offered:**	Fourth Year - Second Semester
5	**Pre –requisite (if any):**	IM462
6	**Co –requisite (if any):**	None
7	**Program (s) in which the course is offered:**	Bachelor of Veterinary Medicine
8	**Language of teaching the course:**	English language
9	**Location of teaching the course:**	Faculty of Veterinary Medicine Building
10	**Prepared by:**	Dr. Abdulraqeb Ali Alshami
11	**Date of approval:**	

II. Course description:

The course intends to familiarize the students with particular means of identification, as well as general principles of diagnosis of infectious diseases of the most important species of mammals; it reviews the etiology, epidemiology, pathogenesis, clinical signs, pathological changes, major measures for prophylaxis and control.

The practical training intends to habituate clinical examination and diagnosis techniques in some major infectious diseases to establish an unequivocal diagnosis (correlated with epidemiology, gross pathology and laboratory) and decision making and implementation of the best control measures.

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

(A) Knowledge and Understanding:

Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: **Knowledge and Understanding.**

Program Intended Learning Outcomes (Sub-PILOs) in: Knowledge and Understanding		Course Intended Learning Outcomes (CILOs) in: Knowledge and Understanding	
After completing this program, students will be able to:		After completing this course, students will be able to:	
A2-	Clarifies basic concepts, principles, and theories related to animal production, animal health and nutrition, behavior management, breeding and care that is related to animal ethical codes.	a1-	Demonstrate the effect of various disease agents on the productivity of animals and recall diagnosis, management, therapeutic and prevention strategy decisions against diseases.
A3-	Identifies various causes of animal diseases, animal epidemics and how they can be diagnosed; including common and life-threatening diseases of animals, poultry and fish.	a2-	Describe the etiology, source, reservoir and mode of transmission of viral, parasitic and fungi diseases of animal species (cattle, sheep, goats, equine, camels and small animals) and describe the diagnostic methodology.

Teaching And Assessment Methods For Achieving Learning Outcomes:

Alignment of Learning Outcomes of Knowledge and Understanding to Teaching and Assessment Methods:

Course Intended Learning Outcomes (CILOs) in Knowledge and Understanding		Teaching strategies/methods to be used	Methods of assessment
completing this course, students will be able to:		-Lectures using board, data shows and multimedia aids. - brainstorm. - discussion. -Self-learning by preparing essay and presentations (computer and faculty library) -Practical training (Clinical demonstrations, practice of	-Written exam -Practical exam -Oral exam - Quizzes - Report assignments - Discussion
a1-	Demonstrate the effect of various disease agents on the productivity of animals and recall diagnosis, management, therapeutic and prevention strategy decisions against diseases.		
a2-	Describe the etiology, source, reservoir and mode of transmission of viral, parasitic and fungi diseases of animal species (cattle, sheep, goats, equine, camels and small		

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	animals) and describe the diagnostic methodology.	skills, and discussions). (a) Field visits (farms and villages) (b) General experimental animal teaching (c) Clinical and small group sessions (d) Outpatient clinic (e) Equipped laboratories	

(B) Intellectual Skills:

Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: Intellectual skills

Program Intended Learning Outcomes (Sub-PILOs) in Intellectual skills		Course Intended Learning Outcomes (CILOs) of Intellectual Skills	
After completing this program, students will be able to:		After completing this course, students will be able to:	
B2-	Predicts an appropriate medical diagnosis for the most common disease states through analysis of clinical story data and the results of medical examinations of a sick animal.	b1-	Create the ability to solve the clinical problems through diagnosis of infectious diseases and find solution.
B3-	Design appropriate nursing and treatment care plans for different diseases that affect animals, prioritizing treatment.	b2-	Select specific treatment and control of animal diseases.

Teaching And Assessment Methods For Achieving Learning Outcomes:

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

Course Intended Learning Outcomes (CILOs) in Intellectual Skills.		Teaching strategies/methods to be used	Methods of assessment
After completing this course, students will be able to:		-Lectures using board, data shows and multimedia aids. - brainstorm. - discussion.	Written exam -Practical exam -Oral exam - Quizzes
b1-	Create the ability to solve the clinical problems through diagnosis of infectious diseases and find solution.		

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b2-	Select specific treatment and control of animal diseases.	-Self-learning by preparing essay and presentations (computer and faculty library) -Practical training (Clinical demonstrations, practice of skills, and discussions).	- Report assignments - Discussion

(C) Professional and Practical Skills:

Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: **Professional and Practical Skills**	
Program Intended Learning Outcomes (Sub-PILOs) in Professional and Practical Skills	**Course Intended Learning Outcomes (CILOs) in Professional and Practical Skills**
After completing this program, students will be able to:	After completing this course, students will be able to:
C3- Reads the results of laboratory investigations and diagnostic scans and writes reports and prescriptions for all common cases in a proper way.	**c1-** Generate an initial list of diagnosis based on given specific data (such as age, sex, vital signs…etc) and implement of a diagnostic plan to obtain a final diagnosis.
C4- Treat animal patients safely and effectively considering the evaluation of the results, the appropriate modification of the treatment plan and the accurate description of the appropriate medications.	**c2-** Apply of specific treatment for the diagnosed cases and writing a prescription and prepare the initial treatment for sick animals with life threatening condition.

Teaching And Assessment Methods For Achieving Learning Outcomes:		
Alignment of Learning Outcomes of Professional and Practical Skills to Teaching and Assessment Methods:		
Course Intended Learning Outcomes (CILOs) in Professional and Practical Skills	**Teaching strategies/methods to be used**	**Methods of assessment**
After completing this course, students will be able to:	-Practical training (Clinical	-Written exam -Practical exam

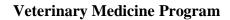| c1-	Generate an initial list of diagnosis based on given specific data (such as age, sex, vital signs…etc) and implement of a diagnostic plan to obtain a final diagnosis.	demonstrations, practice of skills, and discussions). (a) Field visits (farms and villages) (b) General experimental animal teaching (c) Clinical and small group sessions (d) Outpatient clinic (e) Equipped laboratories - Case study	-Oral exam - Quizzes - Report assignments - Discussion
c2-	Apply of specific treatment for the diagnosed cases and writing a prescription and prepare the initial treatment for sick animals with life threatening condition.		

(D) General / Transferable Skills:

Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: **General and Transferable skills**	
Program Intended Learning Outcomes (PILOs) in General / Transferable skills	**Course Intended Learning Outcomes (CILOs) in General / Transferable skills**
After completing this program, students will be able to:	After completing this course, students will be able to:
D2- Develops his scientific, professional, research capabilities on his own, and follows what is emerging in his field of specialization, including computer applications and information and communication technology.	d1- Access websites and use new technology in veterinary extension
D4- Works in normal conditions, crises and epidemics, alone and effectively within a medical team.	d2- Work under pressure and / or contradictory conditions and ability to write reports and essay on the different scientific items in the field of infectious diseases.
Teaching And Assessment Methods For Achieving Learning Outcomes:	
Alignment of Learning Outcomes of General and Transferable skills to Teaching and Assessment Methods:	

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Course Intended Learning Outcomes (**CILOs**) in General and Transferable Skills		Teaching strategies/methods to be used	Methods of assessment
After completing this course, students will be able to:		-Self-learning by preparing essay and presentations (computer and faculty library) - Scientific visits - discussions - Assignments	-Written exam -Practical exam -Oral exam - Report assignments - Discussion - Note performance
d1-	Access websites and use new technology in veterinary extension		
d2-	Work under pressure and / or contradictory conditions and ability to write reports and essay on the different scientific items in the field of infectious diseases.		

IV. Course Content:

1 – Course Topics/Items:

a – Theoretical Aspect					
Order	Topic List / Units	CILOs (symbols)	Sub-topic List	Number of weeks	Contact hours
1	**Diseases caused by viruses**	a1, a2, b1, b2, c1,c2	Rinderpest Peste des petits ruminants	1	2
			Foot and mouth disease Vesicular stomatitis	1	2
			Blue tongue Bovine virus diarrhea	1	2
			Malignant catarrhal fever Bovine papilloma virus Bovine ulcerative mammillitis	1	2
			Infections bovine rhinotracheitis Equine infectious anemia African horse sickness	1	2
			Equine rhinopneumonitis Equine viral arteritis Equine influenza	1	2
			Orf, Pox and Psudopox	1	2

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			Lumpy skin disease		
			Bovine ephemeral fever Rift valley fever Akabane virus disease Rabies & pseudo rabies	1	2
			Bovine spongiform encephalopathy Bovine viral leucosis Scrapie Louping-ill	1	2
2	**Diseases caused by blood parasitic infection**	a1, a2, b1, b2, c1,c2	Diseases caused by blood parasitic infection	2	4
3	**Diseases caused by external and internal parasites**	a1, a2, b1, b2, c1,c2	Diseases caused by external and internal parasites	2	4
4	**Diseases caused by fungus**	a1, a2, b1, b2, c1,c2	Diseases caused by fungus	1	2
Number of Weeks /and Units Per Semester				**14**	**28**

b- Training Aspect:				
Order	Training Tasks	CILOs (symbols)	Number of weeks	Contact hours
1	Diagnosis of viral Diseases	a1, a2, b1, b2, c1,c2	2	4
2	Serological Tests	a1, a2, b1, b2, c1,c2	2	4
3	Immunity, Vaccine and Vaccination Schedules	a1, a2, b1, b2, c1,c2	2	4
4	Diagnosis of Hemoprotozoal diseases	a1, a2, b1, b2, c1,c2	1	2
5	Diagnosis of gastrointestinal parasites diseases	a1, a2, b1, b2, c1,c2	1	2
6	Diagnosis of Infectious Skin Diseases of Domesticated Animals	a1, a2, b1, b2, c1,c2	1	2

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7	Clinic and paraclinic diagnosis of infectious diseases in field animals, treatment, and evaluation of the effect of therapy. Veterinary control measures in animals breeding units.	a1, a2, b1, b2, c1,c2	5	10
Number of Weeks /and Units Per Semester			**14**	**28**

V. Teaching strategies of the course:

- Lectures using board, data shows and multimedia aids.

- Self-learning by preparing essay and presentations (computer and faculty library)

- Brainstorm

- Discussion

- Cooperative learning

- Practical training (Clinical demonstrations, practice of skills, and discussions).

  (a) Field visits (farms and villages)

  (b) General experimental animal teaching

  (c) Clinical and small group sessions

  (d) Outpatient clinic

- Case study

- Tutorial classes (small group teaching)

3-Assessment Methods:

-Written exam
-Practical exam
-Oral exam

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-Quizzes
- Report assignments
- Discussion

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

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes (CILOs symbols)
I. Schedule of Assessment Tasks for Students During the Semester:					
1	Participation, quizzes and assignments	2-14	10	10%	a1, a2, b1, b2, c1,c2
2	Mid-Term Exam	8	10	10%	a1, a2, b1, b2, c1,c2
3	Mid-Term Practical Exam	8	10	10%	a1, a2, b1, b2, c1,c2
4	Final Practical Exam	15	10	10%	a1, a2, b1, b2, c1,c2
5	Oral Exam	16	5	5%	a1, a2, b1, b2, c1,c2
6	Final Exam	16	55	55%	a1, a2, b1, b2, c1,c2
	Total		**100**	**100%**	

II. Students' Support:

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

III. Learning Resource (MLA style or APA style)S:

1- Required Textbook(s) (maximum two)
• Radostitis O.M., Gay C.C., Hinchcliff K. W. and Constable P. D. (2007): Veterinary

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	Medicine, A textbook of the diseases of cattle, horses, sheep, pigs and goats 10th Ed. Baillere Tindall, London. • Infectious Tropical Diseases of Momestic Animals by Losses, G. • An Introduction to Veterinary Epidemiology BY Mark Stevenson 2005
2- Recommended Readings and Reference Materials	
	• Infectious Tropical Diseases of Momestic Animals by Losses, G. • Veterinary Epidemiology - An Introducion BY Dirk U. Pfeifer 2002 • An Introduction to Veterinary Epidemiology BY Mark Stevenson 2005 • Radostitis O.M., Gay C.C., Hinchcliff K. W. and Constable P. D. (2007): Veterinary Medicine, A textbook of the diseases of cattle, horses, sheep, pigs and goats 10th Ed. Baillere Tindall, London. • Color atlas of diseases and disorders in catle by. Blowey, Roger W and Weaver, A. David 2011 3rd Ed • Smith, B.P (2002): Large animal internal medicine, third ed., Mosby, St Louis, London, Philadelphia, Sydney, Toronto.
3- Essential References	
4- Electronic Materials and Web Sites *etc*.	
	• electronic course (Infectious diseases)@ www.zu.edu.eg • www.pubmed.com • www.sciencedirect.com • American Vet.clinic small and larg.com • journal of Infectious diseases
5- Other Learning Material:	
	-

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X.	Course Policies:
1	**Class Attendance:** **MANDATORY TO ATTEND ALL COURSE LECTURES**
2	**Tardiness:** Not allowed at all. Students must be in class or in the practical session 10 minutes prior to the beginning of lectures or practical session
3	**Exam Attendance/Punctuality:** Attendance is mandatory; absence is accepted with valid excuse
4	**Assignments & Projects:** All assignments and projects are to be submitted on their due date. Any assignment turned in after the due date will not be accepted without valid and reasonable excuse
5	**Cheating:** Not tolerated and may lead to **EXPELLING** the student from the program
6	**Plagiarism:** Not tolerated **AT ALL** and may lead to **EXPELLING** the student from the program
7	**Other policies:** 1. All devices must be on silent or at least on vibration during lectures/labs 2. Before any exam (written, oral) we must check student's identity (student's card, ID, passport). Without any of these documents, the student will not be allowed in the exam room. 3. Any of type/ form of cheating is not allowed no matter what. **4.** Maintain silence during lectures/exam and disturbance is not allowed. For any questions students should raise their hand and wait for permission to talk.

Course Plan of Infectious Diseases (2)

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X. - Information about Faculty Member Responsible for the Course:

Name of Faculty Member	Dr. Abdulraqeb Ali Alshami	Office Hours					
		SAT	**SUN**	**MON**	**TUE**	**WED**	**THU**
Location & Telephone No.	Sana'a Governorate 778466544	8am 2pm	8am 2pm	8am 2pm	8am 2pm	8am 2pm	
E-mail	**Alshami.vet@gmail.com**						

XI. Course Identification and General Information:

1-	Course Title:	Infectious Diseases (2)				
2-	Course Number & Code:	IM463				
3-	Credit hours:	**C.H**				**Total**
		Th.	**Seminar**	**Pr.**	**F. Tr.**	
		2	-	1	-	3
4-	Study level/year at which this course is offered:	Fourth Year - Second Semester				
5-	Pre –requisite (if any):	IM462				
6-	Co –requisite (if any):	None				
7-	Program (s) in which the course is offered	Bachelor of Veterinary Medicine				
8-	Language of teaching the course:	English language				
9-	System of Study:	Regular / Semesters				
10-	Mode of delivery:	Lectures and Practical				
11-	Location of teaching the course:	Faculty of Veterinary Medicine Building				

II. Course Description:

The course intends to familiarize the students with particular means of identification, as well as general principles of diagnosis of infectious diseases of the most important species of mammals and birds; it reviews the etiology, epidemiology, pathogenesis, clinical signs, pathological changes, major measures for prophylaxis and control.

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The practical training intends to habituate clinical examination and diagnosis techniques in some major infectious diseases to establish an unequivocal diagnosis (correlated with epidemiology, gross pathology and laboratory) and decision making and implementation of the best control measures

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

After completing this course, students will be able to:

a1- Demonstrate the effect of various disease agents on the productivity of animals and recall diagnosis, management, therapeutic and prevention strategy decisions against diseases.

a2- Describe the etiology, source, reservoir and mode of transmission of viral, parasitic and fungi diseases of animal species (cattle, sheep, goats, equine, camels and small animals) and describe the diagnostic methodology.

b1- Create the ability to solve the clinical problems through diagnosis of infectious diseases and find solution.

b2- Select specific treatment and control of animal diseases.

c1- Generate an initial list of diagnosis based on given specific data (such as age, sex, vital signs…etc) and implement of a diagnostic plan to obtain a final diagnosis.

c2- Apply of specific treatment for the diagnosed cases and writing a prescription and prepare the initial treatment for sick animals with life threatening condition.

d1- Access websites and use new technology in veterinary extension

d2- Work under pressure and / or contradictory conditions and ability to write reports and essay on the different scientific items in the field of infectious diseases.

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V. Course Content:

A – Theoretical Aspect:

Order	Topics List	Week Due	Contact Hours
	Diseases caused by viruses:		
1	Rinderpest Peste des petits ruminants	1	2
2	Foot and mouth disease Vesicular stomatitis	2	2
3	Blue tongue Bovine virus diarrhea	3	2
4	Malignant catarrhal fever Bovine papilloma virus Bovine ulcerative mammillitis	4	2
5	Infections bovine rhinotracheitis Equine infectious anemia African horse sickness	5	2
6	Equine rhinopneumonitis Equine viral arteritis Equine influenza	6	2
7	Orf, Pox and Psudopox Lumpy skin disease	7	2
8	**Mid-Term Exam**	8	2
9	Bovine ephemeral fever Rift valley fever Akabane virus disease Rabies & pseudo rabies	9	2
10	Bovine spongiform encephalopathy Bovine viral leucosis Scrapie Louping-ill	10	2

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11	**Diseases caused by blood parasitic infection**	11,12	4
12	**Diseases caused by external and internal parasites**	13,14	4
13	**Diseases caused by fungus**	15	2
14	**Final Exam**	16	2
Number of Weeks /and Units Per Semester		**16**	**32**

b- Training Aspect:			
Order	**Training Tasks**	**Week Due**	**Contact hours**
1	Diagnosis of viral Diseases	1,2	4
2	Serological Tests	3,4	4
3	Immunity, Vaccine and Vaccination Schedules	5,6	4
4	Diagnosis of Hemoprotozoal diseases	7	2
5	Mid-Term Exam	8	2
6	Diagnosis of gastrointestinal parasites diseases	9	2
7	Diagnosis of Infectious Skin Diseases of Domesticated Animals	10	2
8	Clinic and paraclinic diagnosis of infectious diseases in field animals, treatment, and evaluation of the effect of therapy. Veterinary control measures in animals breeding units.	11,12,13,14,15	10
9	Final Exam	16	2
Number of Weeks /and Units Per Semester		**16**	**32**

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V. Teaching strategies of the course:

- Lectures using board, data shows and multimedia aids.

- Self-learning by preparing essay and presentations (computer and faculty library)

- Brainstorm

- Discussion

- Cooperative learning

- Practical training (Clinical demonstrations, practice of skills, and discussions).

  (a) Field visits (farms and villages)

  (b) General experimental animal teaching

  (c) Clinical and small group sessions

  (d) Outpatient clinic

- Case study

- Tutorial classes (small group teaching)

VI. Assessment Methods:

-Written exam
-Practical exam
-Oral exam
-Quizzes
- Report assignments
- Discussion

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

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No.	Type of Assessment Tasks	Week Due	Mark	Proportion of Final Assessment
1	Participation quizzes and assignments	2-14	10	10%
2	Mid-Term Exam	8	10	10%
3	Mid-Term Practical Exam	8	10	10%
4	Final Practical Exam	15	10	10%
5	Oral exam	16	5	5%
6	Final Exam	16	55	55%
	Total		100	100%

II. Learning Resources:

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

- Radostitis O.M., Gay C.C., Hinchcliff K. W. and Constable P. D. (2007): Veterinary Medicine, A textbook of the diseases of cattle, horses, sheep, pigs and goats 10th Ed. Baillere Tindall, London.

- Infectious Tropical Diseases of Momestic Animals by Losses, G.

- An Introduction to Veterinary Epidemiology BY Mark Stevenson 2005

2- Essential References.

- Infectious Tropical Diseases of Momestic Animals by Losses, G.

- Veterinary Epidemiology - An Introducion BY Dirk U. Pfeifer 2002

- An Introduction to Veterinary Epidemiology BY Mark Stevenson 2005

- Radostitis O.M., Gay C.C., Hinchcliff K. W. and Constable P. D. (2007): Veterinary Medicine, A textbook of the diseases of cattle, horses, sheep, pigs and goats 10th Ed.

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	Baillere Tindall, London.
	• Color atlas of diseases and disorders in catle by. Blowey, Roger W and Weaver, A. David 2011 3rd Ed
	• Smith, B.P (2002): Large animal internal medicine, third ed., Mosby, St Louis, London, Philadelphia, Sydney, Toronto.

3- Electronic Materials and Web Sites *etc.*	
	• electronic course (Infectious diseases)@ www.zu.edu.eg • www.pubmed.com • www.sciencedirect.com • American Vet.clinic small and larg.com • journal of Infectious diseases

XVIII.	Course Policies:
1	**Class Attendance:** **MANDATORY TO ATTEND ALL COURSE LECTURES**
2	**Tardy:** Not allowed at all. Students must be in class 10 minutes prior to the beginning of lectures
3	**Exam Attendance/Punctuality:** Attendance is mandatory; absence is accepted with valid excuse
4	**Assignments & Projects:** All assignments and projects are to be submitted on their due date. Any assignment turned in after the due date will not be accepted without valid and reasonable excuse.
5	**Cheating:** Not tolerated and may lead to **EXPELLING** the student from the program
6	**Plagiarism:** Not tolerated **AT ALL** and may lead to **EXPELLING** the student from the program
7	**Other policies:** 1. All devices must be on silent or at least on vibration during lectures/labs. 2. Before any exam (written, practical, oral) student's identity will be checked (student's card, ID, passport). Without any of these documents, the student will not be allowed in the

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Prof. Dr. Al-Qassim Mohammed Abbas

	exam room. 3. Any of type/ form of cheating is not allowed no matter what. 4. Maintain silence during lectures and disturbance is not allowed.

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