



Course Specification of Research Methods

I. Course Identification and General Information:					
1	Course Title:	Research Methods			
2	Course Number & Code:	FR318			
3	Credit hours:	C.H			
		Theoretical	Practical	Training	Seminar
		2	0	0	0
4	Study level/ semester at which this course is offered:	First Semester of Third Year			
5	Pre –requisite (if any):	FR217			
6	Co –requisite (if any):	None			
7	Program (s) in which the course is offered:	Veterinary Medicine			
8	Language of teaching the course:	English			
9	Location of teaching the course:	Faculty of Veterinary Medicine			
10	Prepared by:	Dr. Hussein Abdulhadi Nasser Al-Wadei			
11	Date of approval:				

II. Course description:

The main concept of this course is to introduce the basis and principles of research methodology. A variety of research designs will be presented that include experimental and non-experimental as well as qualitative and quantitative designs. The course also aims at emphasizing the importance and needs for research in health practice. It prepares students to plan and carry out research projects, which includes discussions on sampling techniques, research designs and techniques of analysis, during their studies in the college of medicine and in their future career.

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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:	
A1-	Demonstrate a sound knowledge and understanding of concepts and principles of general culture, basic science, and that support veterinary medicine.	a1-	Give students the basic information of data collection, biostatistics and basic scientific which in turn will help student to write a scientific research article
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.	a2-	Provide students a broad understanding of research methodology, including theory of science and qualitative and quantitative methods.

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:		<ul style="list-style-type: none"> Lectures Group discussions Literature Review Brainstorming Practical Seminars Individual assignments 	<ul style="list-style-type: none"> The written test Short tests (Quizzes) Oral tests Evaluation of report Assignments
a1-	Give students the basic information of data collection, biostatistics and basic scientific which in turn will help student to write a scientific research article		
a2-	Provide students a broad understanding of research methodology, including theory of science and qualitative and quantitative methods.		

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			(Homeworks)
			<ul style="list-style-type: none"> • Projects • Presentations

(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-	Discuss the importance of research ethics and apply their principles in the research process
B3-	Design appropriate nursing and treatment care plans for different diseases that affect animals, prioritizing treatment.	b2-	Structure the problem with the correct research methodology by collecting data that accurately focuses on the research problem

Teaching And Assessment Methods For Achieving Learning Outcomes:

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

Course Intended Learning Outcomes (CILOs) in Intellectual Skills.		Teaching strategies/methods to be used	Methods of assessment
After completing this course, students will be able to:		<ul style="list-style-type: none"> • Lectures • Group discussions • Literature Review • Brainstorming • Practical Seminars 	<ul style="list-style-type: none"> • The written test • Short tests (Quizzes) • Oral tests • Evaluation of reports
b1-	Discuss the importance of research ethics and apply their principles in the research process		
b2-	Structure the problem with the correct research methodology by collecting data that accurately focuses on the research		

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	problem	<ul style="list-style-type: none"> • Individual assignments 	<ul style="list-style-type: none"> • Assignments (Homeworks) • Projects • Presentations
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(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:	
C1-	Accurately records a comprehensive pathological story of a sick animal including information on healthy behavior and the necessary checks.	c1-	Develop an ability to use effective, creative and innovative solutions to research problems
C3-	Reads the results of laboratory investigations and diagnostic scans and writes reports and prescriptions for all common cases in a proper way.	c3-	Critically evaluate the effectiveness of practical means of delivering or developing research strategies

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:		<ul style="list-style-type: none"> • Lectures 	<ul style="list-style-type: none"> • The written test
c1-	Develop an ability to use effective, creative and innovative solutions to research problems	<ul style="list-style-type: none"> • Group discussions 	<ul style="list-style-type: none"> • Short tests (Quizzes)
c2-	Critically evaluate the effectiveness of practical		<ul style="list-style-type: none"> • Oral tests

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	means of delivering or developing research strategies	<ul style="list-style-type: none"> Literature Review Brainstorming Practical Seminars Individual assignments 	<ul style="list-style-type: none"> Evaluation of reports Assignments (Homeworks) Projects Presentations
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(D) General / Transferable Skills:

Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: **General and Transferable skills**

Program Intended Learning Outcomes (PILOs) in General / Transferable skills		Course Intended Learning Outcomes (CILOs) in General / Transferable skills	
After completing this program, students will be able to:		After completing this course, students will be able to:	
D1-	Communicates effectively with other fellow professions and animal owners and expresses his ideas clearly and objectively.	d1-	Create teamwork, and interpersonal skills in discussing research programs using problem solving and critical thinking exercises in research case studies
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.	d2	Encourage and develop skills that will enhance the performance of ongoing and constant learning and intellectual curiosity via independent learning exercises

Teaching And Assessment Methods For Achieving Learning Outcomes:

Alignment of Learning Outcomes of General and Transferable skills to Teaching and Assessment Methods:

Course Intended Learning Outcomes (CILOs) in General and Transferable Skills		Teaching strategies/methods to be used	Methods of assessment
After completing this course, students will be able to:		<ul style="list-style-type: none"> Lectures 	<ul style="list-style-type: none"> Lectures
d1-	Create teamwork, and interpersonal skills in		

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	discussing research programs through the use of problem solving and critical thinking exercises in research case studies	<ul style="list-style-type: none"> • Group discussions • Literature Review 	<ul style="list-style-type: none"> • Group discussions • Literature Review
d2-	Encourage and develop skills that will enhance the performance of ongoing and constant learning and intellectual curiosity via independent learning exercises	<ul style="list-style-type: none"> • Brainstorming • Practical Seminars • Individual assignments 	<ul style="list-style-type: none"> • Brainstorming • Practical Seminars • Individual assignments

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	a. Reading Syllabus and knowing each other b. Introduction to the course	a1, a2		1	2
2	Introduction to research – The role of research, understanding methodology	a1, a2, b2, b2, c1, c2 d1,	Types of research	1	2
3	Research designing and the language of research theory building	a1, a2, b2, b2, c1, c2 d1,	Research design steps in general	1	2
4	Understanding Concepts, Constructs, Variables, and Definitions. Thinking like a researcher	a1, a2, b2, b2, c1, c2 d1,		1	2
5	Student first Oral Research Presentation	a1, a2, b2, b2, c1, c2 d1,		1	2
6	Problems and Hypotheses, defining the research	a1, a2, b2, b2, c1, c2 d1,		1	2

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	problem, scientific method				
7	Literature Review & Group discussion	a1, a2, b2, b2, c1, c2 d1,		1	2
8	Methods of data collection for research	a1, a2, b2, b2, c1, c2 d1,		1	2
9	Processing and analysis of Data	a1, a2, b2, b2, c1, c2 d1,		1	2
10	Research ethical misconduct	a1, a2, b2, b2, c1, c2 d1,		1	2
11	Principles of scientific writing for research article	a1, a2, b2, b2, c1, c2 d1,	Research format, APA	1	2
12	Referencing Writing (Endnote)	a1, a2, b2, b2, c1, c2 d1,	Style, font, size, etc.	1	2
13	Student's Second Oral Presentation	a1, a2, b2, b2, c1, c2 d1,		1	2
14	Review	a1, a2, b2, b2, c1, c2 d1,		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	None			
2				
Number of Weeks /and Units Per Semester				

V. Teaching strategies of the course:

- Lectures
- Group discussions

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- Literature Review
- Brainstorming
- Practical Seminars
- Individual assignments

3-Assessment Methods:

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

Grading Scale:

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

VI. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes (CILOs symbols)
1	Participation, quizzes and assignments	2-14	10	10%	a-d

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

VII. Students' Support:	
Office Hours/week	Other Procedures (if any)
Saturday-Wednesday from 11:00 am- 2:00pm	By Email
VIII. Learning Resource (MLA style or APA style)s:	
1- Required Textbook(s) (maximum two)	
	1. Creswell, J. W. <i>Research design: Qualitative, quantitative and mixed methods approaches</i> . 5th Ed. Thousand Oaks, CA: Sage, 2018. 2. Pawar, B.S. (2009). <i>Theory building for hypothesis specification in organizational studies</i> , Response Books, New Delhi.
2- Recommended Readings and Reference Materials	
	1-
3- Essential References	
4- Electronic Materials and Web Sites etc.	
	1. HEALTH RESEARCH METHODOLOGY. A Guide for Training in Research Methods. Second Edition. URL: http://www.wpro.who.int/publications/docs/Health_research_edited.pdf 2. A Practical Guide for Health Researchers. URL: http://www.who.int/ethics/review-committee/emro_ethics_dsa237.pdf
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 10 minutes prior to the beginning of lectures
3	Exam Attendance/Punctuality: Attendance is mandatory; absence is accepted with valid excuse. Students must be on time; tardiness is not permissible
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: <ol style="list-style-type: none"> 1. All devices must be on silent or at least on vibration during lectures 2. Before any exam (written, oral) we must check student's identity (student's card, ID, passport). Without any of these documents, the student will not be allowed in the exam room. 3. Any of type/ form of cheating is not allowed no matter what. 4. Maintain silence during lectures/exam and disturbance is not allowed. For any questions students should raise their hand and wait for permission to talk.

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Course Plan of Research Methods

X. - Information about Faculty Member Responsible for the Course:						
Name of Faculty Member	Dr. Hussein Abdulhadi Al-Wadei	Office Hours				
Location & Telephone No.	Faculty of Veterinary Medicine Building	SAT	SUN	MON	TUE	WED
E-mail	haalwadei@gmail.com	11am 2pm	11am 2pm	11am 2pm	11am 2pm	11am 2pm

XI. Course Identification and General Information:						
1-	Course Title:	Research Methods				
2-	Course Number & Code:	FR318				
3-	Credit hours:	C.H				Total
		Th.	Seminar	Pr.	F. Tr.	
		2	-	-	-	2
4-	Study level/year at which this course is offered:	First Semester of Third Year				
5-	Pre –requisite (if any):	FR217				
6-	Co –requisite (if any):	None				
7-	Program (s) in which the course is offered	Veterinary Medicine				
8-	Language of teaching the course:	English				
9-	System of Study:	Regular / Semester				
10-	Mode of delivery:	Lectures, Literature Review & Oral Presentations				
11-	Location of teaching the course:	Faculty of Veterinary Medicine Building				

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II. Course Description:

The main concept of this course is to introduce the basis and principles of research methodology. A variety of research designs will be presented that include experimental and non-experimental as well as qualitative and quantitative designs. The course also aims at emphasizing the importance and needs for research in health practice. It prepares students to plan and carry out research projects, which includes discussions on sampling techniques, research designs and techniques of analysis, during their studies in the college of medicine and in their future career.

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

After completing this course, students will be able to:

- a1- Give students the basic information & understanding of data collection, biostatistics and basic scientific which in turn will help student to write a scientific research article
- a2- Provide students a broad understanding of research methodology, including theory of science and qualitative and quantitative methods.
- b1- Discuss the importance of research ethics and apply their principles in the research process
- b2- Structure the problem with the correct research methodology by collecting data that accurately focuses on the research problem
- c1- Develop an ability to use effective, creative and innovative solutions to research problems.
- c2- Critically evaluate the effectiveness of practical means of delivering or developing research strategies
- d1- Create teamwork, and interpersonal skills in discussing research programs using problem solving and critical thinking exercises in research case studies
- d2- Encourage and develop skills that will enhance the performance of ongoing and constant learning and intellectual curiosity via independent learning exercises

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V. Course Content:			
A – Theoretical Aspect:			
Order	Topics List	Week Due	Contact Hours
1	a. Reading Syllabus and knowing each other b. Introduction to the course	1	2
2	Introduction to research – The role of research, understanding methodology	2	2
3	Research designing and the language of research theory building	3	2
4	Understanding Concepts, Constructs, Variables, and Definitions. Thinking like a researcher	4	2
5	Student first Oral Research Presentation	5	2
6	Problems and Hypotheses, defining the research problem, scientific method	6	2
7	Literature Review & Group discussion	7	2
8	Midterm Exam	8	2
9	Methods of data collection for research	9	2
10	Processing and analysis of Data	10	2
11	Research ethical misconduct	11	2
12	Principles of scientific writing for research article	12	2
13	Referencing Writing (Endnote)	13	2
14	Student's Second Oral Presentation	14	2
15	Review	15	2
16	Final Written Exam	16	2
Number of Weeks /and Units Per Semester		16	32

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b- Training Aspect:			
Order	Training Tasks	Week Due	Contact hours
1			
2			
Number of Weeks /and Units Per Semester			

V. Teaching strategies of the course:

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

VI. Assessment Methods:

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

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Grading Scale:

Grades are awarded on a scale from A to F, where A is the best grade(90-100) and F is a fail (<65).

N.B.:

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

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

II. Learning Resources:

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

1. Creswell, J. W. *Research design: Qualitative, quantitative and mixed methods approaches*. 5th Ed. Thousand Oaks, CA: Sage, 2018.
2. Pawar, B.S. (2009). *Theory building for hypothesis specification in organizational studies*, Response Books, New Delhi.

2- Essential References.

Students are free to search online for any available course materials related to the course subjects and taught lectures in the class.

3- Electronic Materials and Web Sites etc.

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II. 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. Students must be on time; tardiness is not permissible
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: <ol style="list-style-type: none"> 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 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. For any questions students

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