



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Scientific Research Methods							
Course Code		VBY657		Course Level		Third Cycle (Doctorate Degree)			
ECTS Credit	2	Workload	50 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		Having Knowledge of Science and Scientific Methods							
Course Content		To create the necessary substructure about the notion related to science, scientific research process and the scientific activities to be applied in this process, and the methods to be used in making scientific studies into reports, projects, theses and articles.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation)					
Name of Lecturer(s)									

### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

### Recommended or Required Reading

1	Karasar N, Bilimsel Araştırma Yöntemi. Arıkan R, Araştırma Teknikleri ve Rapor Yazma. Dinler Z, Bilimsel Araştırma
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Week	Weekly Detailed Course Contents	
1	Theoretical	Science and Scientific Research
2	Theoretical	Scientific Research Process and Research Methods
3	Theoretical	Experimental Research
4	Theoretical	Quantitative Research
5	Theoretical	Source Scanning
6	Theoretical	Establishing a model , Identifying variables , Creating İstatistical hypothesis
7	Theoretical	Mid term
8	Theoretical	Sampling
9	Theoretical	Measuring and Scaling in Researches
10	Theoretical	Preparing Project
11	Theoretical	Gathering Data
12	Theoretical	Quantitative and Qualitative Analytic Methods
13	Theoretical	Quantitative and Qualitative Analytic Methods
14	Theoretical	Analyses regarding examining diversity
15	Theoretical	SPSS applications
16	Theoretical	final exam (Final)

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	15	1	2	45
Midterm Examination	1	1	1	2
Final Examination	1	2	1	3
Total Workload (Hours)				50
[Total Workload (Hours) / 25*] = ECTS				2

\*25 hour workload is accepted as 1 ECTS

### Learning Outcomes

1	Having Knowledge of Science and Scientific Methods
2	Having knowledge of Scientific Research Processes



3	To be able to express the ideas and the data related to the research topic in oral and written form
4	apply research methods and article writing techniques as a scientific report.
5	gain knowledge about source scanning methods and correct source selection

**Programme Outcomes (Biochemistry (Veterinary Medicine) Doctorate)**

1	Has a deep and broad knowledge about the field and the interdisciplinary area related with the field through the achievements gained in undergraduate and professional levels.
2	Has the knowledge to create original ideas, analyze them and develop definition/product/diagnosis methods by using the knowledge gained in undergraduate and/or professional experience, when needed.
3	Is knowledgeable about theories and practices in methodological and scientific research methods to run an independent research.
4	Excels in the laboratory, clinical and similar fields by using the theoretical and practical information gained in former education, and has the ability to create solutions in related fields.
5	Designs and develops scientific methodology for the advanced level/newly defined/emerged problems about the field.
6	Excels in the known scientific methods in the field for the advanced level/ newly defined/emerged problems.
7	Designs unique researches and implements independently.
8	Analyzes, synthesizes and evaluates the new ideas in related fields by using critical thinking.
9	Plans, creates teams and carries out the interdisciplinary research projects in order to create solutions to the known/newly defined problems.
10	Joins to congresses, panels, symposiums, workshops, seminars, article discussions and problem solving sessions in different disciplines, and exchanges information with the other professionals to contribute to the solutions.
11	Broadens the borders of scientific information by publishing scientific articles in national and/or international peer-reviewed journals.
12	Creates new ideas and methods to contribute to the technological, social and cultural progress, or to help the development of information society by using the theoretical, practical, independent research, abilities responsibly.
13	Designs and implements social projects with the awareness of creating an information society.
14	Compiles and interprets any type of data (field observation, scientific knowledge etc.) in accordance with the aims.
15	Develops and uses strategies about related topics with the field.
16	Implements and defends institutional and practical information and abilities in accordance with the needs of the country and the world, and changes when necessary.
17	Follows up and uses all the updates about the field (scientific information, legislations etc.), and has the qualification to change them.
18	Adopts lifelong learning as a principle and acknowledges that the information gained through research is the most valuable gain.

**Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High**

	L1	L2	L3	L4	L5
P1	5	5	5	5	5
P2	5	5	5	5	5
P3	5	5	5	5	5
P4	4	4	4	4	4
P6	5	5	5	5	5
P7	4	4	4	4	4
P8	4	4	4	4	4
P11	5	5	5	5	5
P14	4	4	4	4	4
P18	5	5	5	5	5

