AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Applied Research in Educational Sciences Data Collection and Analysis						
Course Code	EYT621		Couse Level	Third Cycle (Doctorate Degree)			
ECTS Credit	5	Workload	126 *(Hours)*	Theory	3	Practice	0	Laboratory	0
Objectives of the Course	1. To analyze correlation, basic, linear and multiple regression analyses 2. To analyze dependent and independent groups and t-test 3. To analyze variance analysis 4. To analyze parametric statistics techniques like ANOVA, MANOVA, ANCOVA, MANCOVA 5. To analyze non- parametric statistics techniques like MANN-WHITNEY-U, Kruskal-Wallis H test						
Course Content	Basic topics on Statistics, Advanced statistical techniques in educational science researches						
Work Placement	N/A						
Planned Learning Activities and Teaching Methods			Explanation (Presentation), Demonstration, Problem Solving				
Name of Lecturer(s)							

Assessment Methods and Criteria

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

Recommended or Required Reading

1	American PsychologicalAssociation. (2001). Publication manual of the American psychological association. (5th Ed.). Washington
2	Creswell, J. (2002). Educational Research: Planning, Conducting, and Evaluating Quantitative and Qualitative Research. Saddle River, NJ: Prentice Hall.
3	Alexander, J., & Tate, M. (1999). Web wisdom, how to evaluate and create information quality on the Web. Mahwah, NJ: Lawrence Erlbaum

Week	Weekly Detailed Course Contents	
1	Theoretical	A general look at statistics programme (NVIVO, SPSS, etc.)
2	Theoretical	Correlation, basic, linear and multiple regression analyses
3	Theoretical	Correlation, basic, linear and multiple regression analyses
4	Theoretical	Correlation, basic, linear and multiple regression analyses
5	Theoretical	dependent and independent groups and t-test
6	Theoretical	dependent and independent groups and t-test
7	Theoretical	dependent and independent groups and t-test
8	Intermediate Exam	Midterm Exam
9	Theoretical	Variance Analysis
10	Theoretical	Variance Analysis
11	Theoretical	Parametric statistics techniques like ANOVA, MANOVA, ANCOVA, MANCOVA
12	Theoretical	Parametric statistics techniques like ANOVA, MANOVA, ANCOVA, MANCOVA
13	Theoretical	Non- parametric statistics techniques like MANN-WHITNEY-U, Kruskal-Wallis H test
14	Theoretical	Non- parametric statistics techniques like MANN-WHITNEY-U, Wilcoxon, Kruskal-Wallis H test

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	5	3	112
Midterm Examination	1	4	3	7
Final Examination	1	4	3	7
			Total Workload (Hours)	126
			[Total Workload (Hours) / 25*] = **ECTS**	5

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	Analyzes correlation, basic, linear and multiple regression analyses
2	Analyzes dependent and independent groups and t-test
3	Analyzes variance analysis
4	Analyzes parametric statistics techniques like ANOVA, MANOVA, ANCOVA, MANCOVA
5	Analyzes non-parametric statistics techniques like MANN-WHITNEY-U, Wilcoxon, Kruskal-Wallis H test.

Programme Outcomes *(Educational Administration Supervision Planning and Economics Doctorate)*

1	Deepening common knowledge accumulation concerning the educational science in the frame of basic theory and practices of EASPE (Educational Administration Supervision Planning and Economics).
2	Analyzing sub-subjects of Educational Administration Supervision Planning and Economics.
3	Comprehending the relationship between the other disciplines like sociology, philosophy, administration, economy, politics and EASPE (Educational Administration Supervision Planning and Economics), conducting interdisciplinary studies on the basis of internalized knowledge and skills
4	Applying accumulated knowledge related to EASPE to improve and managing educational organizations in different levels.
5	Defining problems in administration and supervision of educational system and developing new perspectives in the light of knowledge gathered from the other disciplines
6	Defining problems of EASPE in the frame of scientific problem solving; developing solution proposals by using quantitative and qualitative research methods
7	Getting skills of using statistical software in order to carry out scientific research and using required technologies.
8	Developing solution models in the light of theories and approaches of EASPE and applying the models to whole system.
9	Getting knowledge and research methods in order to carry out original scientific researches in the field of EASPE and applying team works for efficient results in interdisciplinary studies
10	Handling theories, hypothesis, opinions in the field of EASPE with an objective skeptic, logical, analytical manner and evaluating them in critical point of view.
11	Being aware of lifelong learning in terms of the field of EASPE and personal development and internalizing the principles of lifelong learning, personal development
12	Transferring the current developments and scientific studies to the people and institutions in and out of the field by visually, verbally, systematically and in written
13	Managing the social dynamics of relationships in order to enact people and applying needed leadership strategies in social and educational environments
14	Following national and international publications and attending social interactions and scientific studies in international level; communicating in at least in one foreign language at least in order to share studies international level.
15	Interpreting strategies, politics and plans related to educational system in terms of theories and principles of educational administration and supervision; and evaluating the results in terms of international quality standards.

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	3	3	3	3	3
P2	3	3	3	3	3
P3	3	3	3	3	3
P4	3	3	3	3	3
P5	3	3	3	3	3
P6	3	3	3	3	3
P7	3	3	3	3	3
P8	3	3	3	3	3
P9	3	3	3	3	3
P10	3	3	3	3	3
P11	3	3	3	3	3
P12	3	3	3	3	3
P13	3	3	3	3	3
P14	3	3	3	3	3
P15	3	3	3	3	3