



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Health Statistics and Computer Practice							
Course Code		CGB416		Course Level		First Cycle (Bachelor's Degree)			
ECTS Credit	4	Workload	100 (<i>Hours</i>)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course		It is to teach the gathering, organization, analysis, interpretation and decision making of the data necessary to examine a health issue.							
Course Content		Collection of data, organization, analysis, interpretation and decision making							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Demonstration, Discussion, Project Based Study, Individual Study, Problem Solving					
Name of Lecturer(s)		Assoc. Prof. Gürkan GÜNAYDIN							

Prerequisites & Co-requisites

Prerequisite	EBL305
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Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	20
Final Examination	1	50
Practice	1	20
Assignment	1	10

Recommended or Required Reading

1	Tabachnick, B.G. ve Fidell, L.S. (2015). Use of multivariate statistics. Baloğlu, M. (çev.). Ankara: Nobel.
2	Aksakaoğlu G. (2001). Research Techniques and Analysis Methods in Health. Dokuz Eylül Üniversitesi Rektörlük Matbaası, İzmir.
3	Arıkan R. (2000). Research Techniques and Report Writing. 3. Basım, Gazi Kitabevi, Ankara.
4	Arseven A. (2001). Field Research Method. Principles, Techniques, Examples. 2. Baskı, Gündüz Eğitim Ve Yayıncılık. Ankara.
5	Büyüköztürk Ş. (2005). Data Analysis Handbook for Social Sciences, Statistics, Research Design, SPSS Applications and Interpretation. Gözden Geçirilmiş 5. Baskı, Pegem Yayınları
6	Hayran O. (2012). Research and Statistical Methods in Health Sciences. 1. Baskı, Rota tıp Yayınları.

Week	Weekly Detailed Course Contents	
1	Theoretical	Basic definitions and concepts
2	Theoretical	Planning and types of scientific research,
3	Theoretical	Descriptive statistics
4	Theoretical	SPSS program, installation and menus
5	Practice	Introduction of data to SPSS, classification of data,
6	Practice	Frequency distributions and descriptive criteria, classification of data, arithmetic mean, median, peak value, geometric mean, quarter and percentages
7	Intermediate Exam	Midterm
8	Practice	Prevalence criteria of distribution: variance and standard deviation, standard error, coefficient of variation and frequency distribution
9	Theoretical	Theoretical distributions: Binomial distribution, Poison distribution, Normal distribution and properties of normal distribution, Sample confidence intervals and interpretations, Significance tests: measurement of data
10	Theoretical	Hypothesis, error level, sample size (number of subjects in groups),
11	Theoretical	Whether the studied group is dependent or independent, p and alpha values,
12	Theoretical	Test types and properties, statistical decision making process
13	Theoretical	Parametric and non-parametric statistical tests and key points for appropriate test selection
14	Theoretical	Correlation analysis, creating tables and graphs



Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	1	2	42
Lecture - Practice	14	1	2	42
Assignment	1	5	1	6
Midterm Examination	1	3	1	4
Final Examination	1	5	1	6
Total Workload (Hours)				100
[Total Workload (Hours) / 25*] = ECTS				4

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	To have advanced conceptual and practical knowledge in the field of health statistics and to reach scientific information, to follow the literature
2	Evaluating the acquired knowledge and skills with a critical approach, determining learning needs, directing learning To be able to develop solutions based on evidence and research using health statistics in the field
3	To be able to transfer his / her scientific ideas and solution suggestions to problems in written and oral form and at the level required by his / her field. use statistics, computer, information and communication technologies
4	Decision making in accordance with ethical principles in all stages of research on a health subject
5	To be able to integrate the other courses taken in the education process to related subjects and to develop the ability of learning, reading, working and research independently.

Programme Outcomes (Child Development)

1	Comparatively evaluate and interpret the reliability and validity of the knowledge he / she has by using the basic and updated theoretical and practical educational and training tools and resources in the field of child development.
2	In line with the theoretical and practical knowledge he has acquired in the field of child development, he has the skills to evaluate children who show typical and atypical development with different methods and tools, develop support programs, provide family counseling and inform the society.
3	Uses his/her knowledge about self-care, physical-motor, cognitive-language, social-emotional development of 0-18 year old children for the developmental and educational diagnosis of children, in the units related to his/her profession for the benefit of children, families and society.
4	Analyzes the problems of their children and their families in terms of health, development, education and social service in the country and produces appropriate solutions and original ideas by using evidence-based knowledge on these problems.
5	Using the basic knowledge in the field of child development, he produces individual and group studies
6	He plans and implements research, professional projects and activities for the social environment in which it lives with the awareness of social responsibility, and monitors and evaluates the process.
7	Acts in accordance with the ethics of science, observes the psychological state of the children and their families in experimental researches on children.
8	Behaves in accordance with laws, regulations and legislation and respectful of democracy, human rights, social, scientific and professional ethical values, presenting an example for the society with his/her attitude, behavior and appearance.
9	Has adequate awareness about quality management and processes, individual and environmental protection and occupational safety issues including infants, children and families, participates and behaves accordingly in these processes.
10	He can integrate her professional knowledge with knowledge from different disciplines, he takes responsibility in multidisciplinary, interdisciplinary and transdisciplinary studies by participating in teamwork and fulfills his duties effectively.
11	Developing the habit of keeping research and learning awareness and knowledge up-to-date throughout life, he knows all the concepts related to development and education for children and young people aged 0-18 and follows the studies on this subject with a critical approach.
12	Using information and communication technologies together with the computer software required by the field.
13	To follow the changes and developments in the field using at least one foreign language.

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

	L1	L2	L3	L4	L5
P5	5	5	5	5	5
P6	5	5	5	5	5

