

H.U. INSTITUTE OF HEALTH SCIENCES COURSE SYLLABUS

PROGRAM NAME			BIOSTATISTICS		
CODE	BIS 637	TITLE	STATISTICAL METHODS SPECIFIC TO HEALTH SCIENCES		
LECTURER (S)			PROF. REHA ALPAR, PhD INSTRUCTOR ERDEM KARABULUT, PhD		
TYPE	<input checked="" type="checkbox"/> COMPULSORY <input type="checkbox"/> SELECTIVE	LANGUAGE	<input checked="" type="checkbox"/> TURKISH <input type="checkbox"/> ENGLISH	LEVEL	<input checked="" type="checkbox"/> MASTER OF SCI. <input type="checkbox"/> DOCTORATE <input type="checkbox"/> PREREQ. PREP.

THEORETICAL (HRS/WK)	3	PRACTICAL (HRS/WK)	0	H.U. CREDIT	3	ECTS CREDIT	7
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WHAT IS THE IMPORTANCE OF THIS COURSE IN THE PROGRAM'S LEARNING OBJECTIVES															
PRE-REQUISITE(S)	NONE														
COURSE OBJECTIVES	Main issues of the course include introducing and teaching basic indicators used in health sciences. Students are made capable of comparing such indicators in national and international basis. Course is carried out in an interactive manner. Obtaining, interpreting and et. of the statistics concerning recognition of service area are studied by utilizing information taken from hospital and other sources.														
LEARNING OUTCOMES AND ACQUIRED COMPETENCES	Students will acquire basic knowledge that is beneficial in guiding a health region or institution in addition to learning how to calculate required statistics for health indicators of countries or specific regions, they will also acquire the research knowledge sufficient to carry out basic studies in the field of health.														
COURSE CONTENT	Identifying the health region, demographic statistics (birth, death, migration), population pyramids, population estimation methods, life table method. Morbidity statistics, standardization of rates and proportions, statistics of health services, international classification of deaths and diseases, health records, health indicators, basic research types in health and measures of risk.														
COURSE SCHEDULE	<table border="1" style="width: 100%;"> <tr> <td>Week 1</td> <td>Health services and biostatistics</td> </tr> <tr> <td>Week 2</td> <td>Identification of service region</td> </tr> <tr> <td>Week 3</td> <td>Statistical methods related to population</td> </tr> <tr> <td>Week 4</td> <td>Statistical methods related to births</td> </tr> <tr> <td>Week 5</td> <td>Statistical methods related to diseases, research methods in health</td> </tr> <tr> <td>Week 6</td> <td>Standardization of rates and proportions</td> </tr> <tr> <td>Week 7</td> <td>Life tables</td> </tr> </table>	Week 1	Health services and biostatistics	Week 2	Identification of service region	Week 3	Statistical methods related to population	Week 4	Statistical methods related to births	Week 5	Statistical methods related to diseases, research methods in health	Week 6	Standardization of rates and proportions	Week 7	Life tables
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	Week 8	Statistical methods related to protective service studies
	Week 9	Statistics used in evaluation of hospital services
	Week 10	Statistical methods related to dentistry
	Week 11	International classification of deaths and diseases
	Week 12	Health indicators
	Week 13	Health records
	Week 14	Term project presentations
	Week 15	Practice – Discussion
SUGGESTED COURSE MATERIAL	1. Sümbüloğlu, Kadir. Sağlık alanına Özel İstatistiksel Yöntemler. Somgür Yayıncılık, Ankara, 2003. 2. Kahn HA, ve Semmpos CT. Statisticak Methods in Epidemiology. Oxford Uni. Press, New York, 1989. 3. Tezcan, S. Epidemiyoloji: Tıbbi Ataştırmaların Yöntem Bilimi. Hacettepe Halk Sağlığı Vakfı, Yayın No: 92/1, Ankara, 1992.	
TEACHING METHODS	Student orientated education: students are told to be prepared for the following week’s topics. The students are encouraged to discuss the relevant topics with their classmates. Theoretical knowledge is supported by discussions on given assignments and literature.	
ASSESSMENT METHODS	Final grade is calculated on the basis of participation in discussions (7.5%), assignments (22.5%), mid-term exams (20%) and a final exam (50%)	