Course description form

Course description

This course description provides a necessary summary of the most important characteristics of the course and the learning outcomes that the student is expected to achieve, demonstrating whether he has made the most of the available learning opportunities, and it must be linked to the program description.

Central Technical University/Mansour Technical Medical Institute	1- Educational institution
Department of Pharmacy Technologies	2- Scientific Department/Center
biostatistics	3- Course name/code
Attendance at the specified time and full time according to the schedule	4- Available forms of attendance
The second course	5- Semester/year
30 hours	6- Number of study hours (total)
2024	7- The date this description was prepared
1- Objectives of the course	
1- Introducing the student to the steps of the statistical method	
2- Introducing the student to the types of classified and unclassified data and the sources of their collection	
3- Introducing the student to calculating statistical parameters and indicators	
4- Introducing the student to representing data graphically	
5- Introducing the student to analyzing and interpreting results and predicting the future of the studied phenomena	
6- Introducing the student to the statistics required in hospitals and the methods of their work and organization	

9- Course outcomes and teaching, learning and evaluation methods
1- Cognitive objectives A1-Knowledge of life statistics A2-Knowing how to use it A3- Knowledge of data tabulation and analysis A4-Knowing the statistics required in hospitals and health departments A5- Knowledge of analyzing health phenomena and methods of collecting data about them for the purpose of analysis, treatment and prediction A6- Knowledge of reading health statistical data and methods of typesetting it
B- The skills objectives of the course B1 - Organizing death and birth forms B2 - Organizing and typesetting statistical tables B3 - Using statistical methods for the purpose of analyzing data and interpreting results B4--Knowing the important statistical standards when studying data
Teaching and learning methods 1- Delivering a lecture with an explanation using the blackboard 2- Use the Data Show device to display the lecture on the computer 3- Using the smart board for the purpose of clarifying prohibitions
Evaluation methods 1-Practical exams 2- Written exams 3- Home duties 4- Oral exams
C- Emotional and value goals C1- Creating a spirit of cooperation among students through group participation in preparing a research project C2- Creating a spirit of competition among students by assigning practical applications within the classroom
Teaching and learning methods A- Cognitive objectives A1- Understanding and teaching the student the principles of statistics. A2- Enabling students to obtain knowledge and understanding in statistical work. A3- The student understands the methods of doing life statistics. A4- Enabling students to obtain knowledge and understanding of designing statistical forms and collecting and transcribing data.

A5- Enabling students to obtain knowledge and understanding on diagnosing the studied phenomena and how to analyze and interpret them
A6- The student will understand the principles of organizing birth and death forms in health departments and hospitals.

D- General and qualifying transferable skills (other skills related to employability and personal development)
D1- Acquire the skill of successfully passing a job application interview
D2- Acquiring skills in using the statistical method in various fields of work
D3- Acquiring skills in using life statistics to communicate with health institutions
D4- Acquiring skills in statistical work, mathematically and graphically

10- Course structure

Evaluation method	Teaching method	Name of the unit/topic	Required learning outcomes	hours	the week
Chapter II					
Theoretical exam	theoretical	Definition of statistics, methods of collecting data, presenting and describing statistical data		2	1
Theoretical exam	theoretical	Representing frequency distributions (tabulated data)		2	2
Theoretical exam	theoretical	Tabular display (frequency distribution tables)		2	3
Theoretical exam	theoretical	Graphic display, histogram		2	4
Theoretical exam	theoretical	frequency curve, frequency polygon		2	5

Theoretical exam	theoretical	Measures of central tendency		2	6
Theoretical exam	theoretical	Arithmetic mean, median, mode		2	7
Theoretical exam	theoretical	Life statistics, ratios and rates		2	8
Theoretical exam	theoretical	Fertility statistics		2	9
Theoretical exam	theoretical	Disease statistics		2	10
Theoretical exam	theoretical	Life tables		2	11
Theoretical exam	theoretical	Definition of health statistics and its sources		2	12
Theoretical exam	theoretical	Fields treated by health statistics		2	13
Theoretical exam	theoretical	Statistics of causes of death, medical certificates, cause, death, death certificate		2	14
Theoretical exam	theoretical	Statistics of health institutions		2	15

11- Infrastructure	
	1- Required prescribed books

Statistics written by Dr. Mahmoud Al-Mashhadani and Dr. Amir Hanna Hormuz	2 - Main references (sources)
Dr. Obaid Mahmoud Al-Zubaie, Principles of Statistics	A - Recommended books and references (scientific journals, reports,...)
	A - Electronic references, Internet sites.

12- Course development plan
It is preferable to add weekly practical hours of two hours per week for the purpose of teaching students methods of statistical analysis using the statistical application (spss) and how to dump data into the computer and analyze it using the application (spss).