



Philadelphia University
Faculty of Administrative and Financial sciences
Department of Hospital Management

Course syllabus

Course title: Demography and Vital Statistics	Course code: 380129
Course level:	Course prerequisite (s) :
Lecture time:	Credit hours: 3

Academic Staff Specifics

Name	Rank	Office number and location	Office hours	E-mail address

Course module description:

This is a required course for all students in hospital management specialization. The course topics are important and relevant for any student wishing to expand his or her healthcare management skills. Participants will learn key principles and practices in demography and health statistics relevant to health care organizations. The course provides students with an overview of demography and its relationship to health management science and hospital management. The course content describes the basic demographic indicators and their computation and interpretation; it covers also the most popular vital health statistics: their importance and how to calculate them.

Students will learn and practice these tools and skills through lectures, exercises, homework and case studies. The course is structured to integrate both academic and practical approaches and perspectives on current issues in demography and health statistics with special emphasis on Jordan healthcare system.

Course module objectives:

At the end of this course you should be able to:

- Understand the nature and importance of Demography and its relationship to other social sciences and health management science and hospital management in particular.
- Understand the key areas of Demography, population data sources, population growth and the concepts of immigration, fertility, reproduction and population density
- Knowledge of population trends, family planning and health indicators
- Identify and compare the advantages and disadvantages of the different sources of demographic data.
- Describe basic demographic indicators and elaborate on their computation and interpretation.
- Understand population and vital health statistics: their importance and how to calculate them.

Teaching methods:

Lectures, discussion groups, tutorials, problem solving, debates, etc.

Learning outcomes:

- Knowledge and understanding
Understand the nature and principles of demography and health statistics and the ability to the ability to utilize them in management of healthcare organizations.
- Cognitive skills (thinking and analysis).
Use and apply vital statistics tools and techniques in organizational analysis, planning and problem solving.
- Communication skills (personal and academic).
Discuss and sharing ideas about demography and health statistics with emphasis on Jordanian hospitals and healthcare institutions.
- Practical and subject specific skills (Transferable Skills).
The ability to use the acquired knowledge in demography and health statistics to develop and improve practices in an efficient and effective manner.

Assessment instruments

- Short reports and/ or presentations, and/ or Short research projects
- Quizzes.
- Homework
- Final examination: 50 marks

Homework

Homework will be provided to the students

<u>Allocation of Marks</u>	
Assessment Instruments	Mark
First examination	20
Second examination	20
Final examination: 40 marks	40
Reports, research projects, quizzes, homework, Projects	20

Total	100
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Documentation and academic honesty

- Documentation style (with illustrative examples)

All exams, projects and assignments will be in a secure file with the instructor.

- Protection by copyright
- Avoiding plagiarism.

Course/module academic calendar

Weak No.	Basic and support material to be covered	Homework/reports
1	Introduction: <ul style="list-style-type: none"> • Basic concepts demography and health statistics(DHS) • Applications of DHS to healthcare organizations 	
2	<ul style="list-style-type: none"> • Demography theories 	Assignment #1:Students are asked to prepare a short report about population trends in Jordan
3	<ul style="list-style-type: none"> • Evolution and history demography policies • Applications of demography policies in healthcare organizations. 	
4	<ul style="list-style-type: none"> • Population growth • Trends in population growth • Population growth factors 	
5	<ul style="list-style-type: none"> • Population density • Population registers • Population census • Demographic opportunity 	Assignment #2: Students are asked to prepare a report about the main findings of the Jordanian Population Census 2015
6 First Exam	<ul style="list-style-type: none"> • Health statistics (HS) • Registries of HS 	
7	<ul style="list-style-type: none"> • Fertility • Fertility factors • Fertility indicators and statistics 	Assignment #3:Students are asked to visit the website of the High Population Council in Jordan and understand the functions and the role of this Council
8	<ul style="list-style-type: none"> • Mortality indicators • Causes of death • Death registries • Trends in death indicators 	Assignment #4: Students are asked to bring some organizational charts of some Jordanian hospital and discuss the differences among these charts

9	<ul style="list-style-type: none"> • Mortality statistics • Importance of Mortality statistics • Categories of mortality statistics 	
10	<ul style="list-style-type: none"> • Introduction to biostatistics • Scientific method in research and problem solving 	Assignment #5: Students are asked to collect and report the major vital up-to date vital statistics in Jordan
11 Second examination	<ul style="list-style-type: none"> • Sampling techniques • Problem related to sampling 	
12	<ul style="list-style-type: none"> • Data collection methods • Questionnaire design • Data registry and classification • Data analysis 	
13	<ul style="list-style-type: none"> • Morbidity statistics • Prevalence and incidence indicators • Epidemic and endemic diseases indicators 	
14	<ul style="list-style-type: none"> • Hospital statistics • Utilization statistics • Patients statistics • Quality indicators 	Assignment #6: Students are given a list of hospital data and they will be asked to prepare some hospital indicators as bed occupancy, death rate, average length of stay, etc...
15	<ul style="list-style-type: none"> • Demographic situation in Jordan • Demographic transition • Demographic trends 	
16	Review and Final Examination	

Expected workload:

On average students need to spend 2 hours of study and preparation for each 50-minute lecture/tutorial.

Attendance policy:

Absence from lectures and/or tutorials shall not exceed 15%. Students who exceed the 15% limit without a medical or emergency excuse acceptable to and approved by the Dean of the relevant college/faculty shall not be allowed to take the final examination and shall receive a mark of zero for the course. If the excuse is approved by the Dean, the student shall be considered to have withdrawn from the course.

Books (title , author (s), publisher, year of publication)

Muneir Karadsheh (2007). Principles of Demography: Theories and Applications.
National Centre Press.

Electronic Learning Support Material:

- <http://www.moh.gov.jo/Pages/viewpage.aspx?pageID=185>
- <http://www.moh.gov.jo/Pages/viewpage.aspx?pageID=172>
- <http://www.emro.who.int/countries/jor/index.html>
- <http://www.hpcpromise.org.jo/ar>
- <http://www.hpcpromise.org.jo/?q=ar/node/11503>
- <http://web.dos.gov.jo/?lang=ar>
- http://www.dos.gov.jo/dos_home_a/main/population/census2015/index.htm
- <https://www.pdfdrive.net/vital-statistics-e21476247.html>
- http://www.ifr.sun.ac.za/InTheMedia/Documents/2015_2016%20BF%20Chapter%202.pdf