UNIVERSITI TEKNOLOGI MARA

BTP213: DEMOGRAPHIC STUDIES

Course Name (English)	DEMOGRAPHIC STUDIES APPROVED
Course Code	BTP213
MQF Credit	1
Course Description	This course introduces the basic techniques of demographic analysis. Discussions include population composition and change measures as well as appreciate various concepts: population change, measures of mortality, fertility, migration, the life table, population projection and population problems and policy.
Transferable Skills	Demonstrate ability to identify and articulate self skills, knowledge and understanding confidently and in a variety of contexts Demonstrate practical and contemporary knowledge of relevant professional, ethical and legal frameworks Demonstrate ability to manage personal performance to meet expectations and demonstrate drive, determination and accountability
Teaching Methodologies	Lectures, Blended Learning, Tutorial, Presentation, Self-directed Learning
CLO	CLO1 Ability to define and differentiate the demographic concepts, terminology, and formulas CLO2 Ability to project a population using appropriate equations and assumptions CLO3 Ability to recognize and analyze typical demographic patterns arising from the data CLO4 Ability to differentiate different population issues and population policies in the world
Pre-Requisite Courses	No course recommendations

Topics
1. Introduction 1.1) Understanding demography 1.2) Significance of demographic study 1.3) Demography issues and problems
2. Demographic Concepts and Population Change 2.1) Basic concepts 2.2) Population growth
3. Population Composition 3.1) Population pyramid 3.2) Age structure 3.3) Sex ratio 3.4) Dependency ratio
4. Population Characteristics 4.1) Median age 4.2) Average household size 4.3) Density of population
5. Population Change 5.1) Births and fertility 5.2) Deaths and mortality 5.3) Migration

6. Mortality 6.1) Mortality / survival rates 6.2) Life tables
7. Fertility 7.1) Crude birth rate 7.2) Potential fertility 7.3) Age specific fertility rate 7.4) Total fertility
8. Migration 8.1) Push and pull factors 8.2) Types of migration 8.3) Measuring migration
9. Population Projection 9.1) Linear model 9.2) Exponential model 9.3) Modified exponential model 9.4) Ratio method 9.5) Cohort survival method
10. Population Issues and Population Policies 10.1) Malthus theory 10.2) Population bomb 10.3) Negative population growth 10.4) Zero population growth 10.5) Pro and anti birth policies 10.6) Fiscal and legislative policies

Assessment Breakdown	%
Continuous Assessment	100.00%

Details of Continuous Assessment

Assessment Type	Assessment Description	% of Total Mark	CLO
Assignment	Demographic Events: Based on the population data for any district and any state and also data on the number of births, deaths and natural increase, Calculate The Crude Birth Rate The Crude Death Rate The Crude Rate of Natural Increase (Refer to Table 2.5 of the Bank Data Negeri/Daerah 2011)	10%	CLO1
Assignment	Cohort-Survival Population Projection	10%	CLO2
Assignment	Demographic Measures: Prepare a population pyramid for the year 2010, 2020, 2030 and 2040 for any group based on the Population Projections for Malaysia 2010-2040.	10%	CLO1 , CLO3
Assignment	Linear Population Projection	10%	CLO2
Assignment	Exponential and Modified Exponential Population Projection	10%	CLO2
Assignment	Basic Population Data: Prepare a bar chart showing the total population for a mukim, a district and a state based on the Department of Statistics database. Choose any state in Malaysia.	10%	CLO3
Multiple Choice Questions	40 multiple choice questions based on all topics.	20%	CLO1 , CLO2 , CLO3 , CLO4
Presentation	Population Issues and Population Policies	10%	CLO4
Quiz	15-20 simple questions based on demographic statistics and events and population structure and distribution.	10%	CLO1

Reading List

Reference Book Resources

- **Davis, H. Craig 1995, *Demographic projection techniques for regions and smaller areas*, UBC Press Vancouver**
- **Department of Statistics Malaysia 2012, *Vital statistics*, Department of Statistics Putrajaya**
- **Department of Statistics Malaysia 2012, *Population projections Malaysia 2010-2040*, Department of Statistics Putrajaya**
- **Department of Statistics Malaysia 2014, *Abridged life tables Malaysia 2011-2014*, Department of Statistics Putrajaya**
- **Hugo, Greame J., Hull, Terrence H., Hull, Valarie J. and Jones, Gavin W. 1987, *The demographic dimension in Indonesian development*, Oxford University Press Singapore**
- **Klosterman, Richard E. 1990, *Community Analysis and Planning Techniques*., Rowman and Littlefield Publishers, Inc. Lanham, Maryland USA**
- **Klosterman, Richard E., Brail, Richard K. and Bossard, Earl G. 1993, *Spreadsheet models for urban and regional analysis*, Center for Urban Policy Research New Brunswick**
- **Mohd Shamsuddin Zahid Sopian 1995, *Asas analisis demografi*, Dewan Bahasa dan Pustaka Kuala Lumpur**
- **Palmore, J. and Gardner, R.W., *Measuring mortality, fertility and natural increase*, 5th edition Ed., East West Center Honolulu, USA**
- **Preston, S.H., Heauveline, P. and Michel, G. 2001, *Demography: Measuring and Modelling Population Processes*, Blackwell Publishers Malden, MA**

		• **Ueda, Kozo 1985, *Demographic urbanization in Asian countries,*, SEAMIC (Southeast Asian Medical Information) Tokyo** • **Weeks, J.R. 2012, *Population: An Introduction to Concepts and Issues*, 11th. edition Ed., Wadsworth Belmont, TN**
Article/Paper List	This Course does not have any article/paper resources	
Other References	This Course does not have any other resources	