Liverpool John Moores University

Title: ANALYSIS 1
Status: Definitive
Code: **7016SKPUBH**   (113052)
Version Start Date: 01-08-2014

Owning School/Faculty: Centre for Public Health
Teaching School/Faculty: Centre for Public Health

Team		Leader
Ivan Gee		Y

Academic Level:	FHEQ7	**Credit Value:**	15.00	**Total Delivered Hours:**	27.00
Total Learning Hours:	150	**Private Study:**	123		

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	9.000
Practical	18.000

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Essay	AS1	Coursework: Database project design	100.0	

Aims

This module aims to provide participants with the skills required to design and manipulate databases and data in order to apply these to health surveillance programmes.

Learning Outcomes

After completing the module the student should be able to:

1   Design and mangae (including querying) appropriate databases
2   Evaluate the design and implementation of a public health surveillance system.
3   Identify and use appropriate techniques required for data reduction and analysis of health surveiallance data

Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

 Database Project   1   2   3
Design

Outline Syllabus

Database design (including relational databases), mangement and use in information retrieval, data quality considerations(including the ecological fallacy). Health surveillance systems (design and implementation, analysis of data produced to examine trends, diagnosed prevalence, estimate population prevalence (including CR). Overview of data reduction techniques i.e. reduction of variables to produce orthogonal factors (FA, PCA); reduction of individuals to produce similar / dissimilar groupings (cluster analysis); pattern analysis to combine both(ordination techniques).

Learning Activities

Interactive lectures and seminars. Computer laboratory work

References

Course Material	Book
Author	Cromley, EK: McLasserty, SL
Publishing Year	2002
Title	GIS and public health
Subtitle	
Edition	
Publisher	The Guildford Press, London
ISBN	

Course Material	Book
Author	Manley, BF
Publishing Year	1986
Title	Multivariate statistical methods
Subtitle	A primer
Edition	
Publisher	Chapman and Hall, London
ISBN	

Course Material	Book
Author	Norman, GR: and Streiner, DL:
Publishing Year	1997
Title	PDQ Statistics
Subtitle	
Edition	
Publisher	Mosby, London
ISBN	

Course Material	Book
Author	Tabachnick, BG: & Fidell, LS:
Publishing Year	2001
Title	Using multivariate statistics
Subtitle	
Edition	
Publisher	Allyn & Bacon, MA
ISBN	

Notes

This module is based around design and use of databases. Students wil learn how to desgin databses, enter / import data, interroagate, analyse and interpret resulting data within a public health context.