Liverpool John Moores University

Title:	ANALYSIS 2
Status:	Definitive
Code:	7017SKPUBH (113053)
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	9.000
Seminar	9.000

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Essay	AS1	Coursework, GIS project to produce appropriate visualisations, analyse and interpret resulting data within a public health context.	100.0	

Aims

This module aims to provide participants with the ability to identify and interpret appropriate techniques for monitoring and predicting health outcomes

Learning Outcomes

After completing the module the student should be able to:

- 1 Identify, implement and interpret commonly used techniques for predicting health outcomes
- 2 Evaluate the role of GIS within public health
- 3 Apply appropriate GIS techniques in a public health context.

Learning Outcomes of Assessments

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

GIS project 1 2 3

Outline Syllabus

predicetive models including logistic regression, multiple regression, ANOVA, survival / failure analysis, life tables. Overview of other methods including DA, multiple correlation, partial correlation, canonical correlation, log linear analysis, Hotelling's Tsquared. Spatial data and public health including overview of GIS, data layers, use of vector and rastor based data, spatial autocorrelation, the importance of design and functionality, health risk maps, GIS models and visualisations for management of health outcomes.

Learning Activities

Interactive lectures and seminars, Comupter laboratory workshop sessions

References

Course Material	Book
Author	Cromley, EK: and McLasserty, SL;
Publishing Year	2002
Title	GIS and public health
Subtitle	
Edition	
Publisher	The Guilford 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

ISDN

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

Course Material	Book
Author	Rowland, DT:
Publishing Year	2003
Title	Demographic methods and concepts
Subtitle	
Edition	
Publisher	Oxford University Press, Oxford
ISBN	

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

Notes

This module will help students monitor and predict public health outcomes. The assessment will be based around data with heath, social deprivation and environmental variables. Students will be provided with an opportuntity to use appropriat statistics to examine possible associations.