GMIT
INSTITIÚID TEICNEOLAÍOCHTA NA GAILLIMHE-MAIGH EO
GALWAY-MAYO INSTITUTE OF TECHNOLOGY

Galway International Hotel School

MODULE DOCUMENTATION

Database & Geographic Information Systems for Humanities

GEOG07010

Mandatory

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GEOG07010
DATABASE AND GEOGRAPHIC INFORMATION SYSTEMS FOR HUMANITIES

Full Title	DATABASE AND GEOGRAPHIC INFORMATION SYSTEMS FOR HUMANITIES		
Status	Uploaded to Banner	**Start Term**	2017
NFQ Level	07	**ECTS Credits**	05
Module Code	GEOG07010	**Duration**	Semester - (13 Weeks)
Grading Mode	Numeric	**Department**	Heritage & Tourism
Module Author	Gerry ONeill		

Module Description

This module will cover the use of computer databases and geographic information systems (GIS) as tools for students of humanities. It will enable learners to evaluate and assess data from databases and perform basic tasks using GIS packages. It will be taught in a cimputer laboratory and will be assessed via 100% practical and continuous assessment.

	Learning Outcomes ***On completion of this module the learner will/should be able to:***
1.	Recognise the scope and application of databases for data storage and analysis
2.	distinguish the different type of data, and the characteristics, that exist in the real and digital worlds
3.	Be familiar with the principles of geographic information science
4.	Be conversant with the principles of geographic information science
5.	Understand and describe the components of a GIS and demonstrate an understanding of its applications
6.	Be familiar with the main GIS packages, including their scope, limitations and costs
7.	1. Source, store and manipulate data within a Geographic Information system
8.	Demonstrate the ability to direct their own learning in the applications of GIS

Indicative Syllabus

What is data?: collection, evaluation, categorisation and analysis;

- Principles of database design, input, storage, analysis and output;
- Introduction to geographic information science;
- Co-ordinate systems, transformations, projections and scale;
- Components of Geographic Information Systems;
- Geographic and attribute data, data management and retrieval;
- Combining location and attribute data;
- Display, analysis and producing GIS outputs.

Teaching and Learning Strategy

Weekly practical sessions introducing aspects of the syllabus - with a view to the students achieving the learning outcomes

Assessment Strategy

- The module is 100% CA

- Students are required to demonstrate critical thinking, judgement and technical ability in the application of GIS in humanities research. This is achieved through assignments that evaluate technical ability and scenarios where students are presented with research questions, they must source appropriate data, choose appropriate analyses and display techniques and finally interpret the results of their work.

- Assessments will be designed to determine whether or not students can demonstrate they have attained the learning outcomes appropriate to a Level 7 module

Repeat Assessment Strategies

Students will be required to attend for a practical examination. They will be presented with data and asked to develop a GIS that stores, manages, queries, displays and produces outputs for assessment

Indicative Coursework and Continuous Assessment:		**100 %**		
Form	***Title***	***Percent***	***Week (Indicative)***	***Learning Outcomes***
Practical Evaluation	Labwork participation	36 %	OnGoing	1,2,3,4,5,6,7,8
Assessment	Continuous Assessment	40 %	OnGoing	1,2,3,4,5,6,7,8
Project	Project work	24 %	OnGoing	1,2,3,4,5,6,7,8

Full Time Delivery Mode Average Weekly Workload:			**3.00 Hours**		
Type	***Description***	***Location***	***Hours***	***Frequency***	***Weekly Avg***
Practical	Computer lab	Computer Laboratory	3	Weekly	3.00

Literary Resources

Gorr, W.L. and Kurland, K.S. *GIS tutorial: workbook for Arc View9*.ESRI PRESS, Redlands, Californi, 2008

Gregory, I. and Ell, P.S. *Historical GIS: technologies, methodologies and scholarship*. Cambridge University Press, 2007

Online Resources

Array of resources and links by Brian Hunter for GIS, Google Earth etc.

http://www.nearby.org.uk

ESRI: - leading GIS and mapping software company website http://www.esri.com/products/index.html

GIS showcase and introductory website hosted by ERSI

http://www.gis.com/

GPS Ireland Ltd: - Private company offering training and services in GPA and GIS

http://www.gpsireland.ie

Other Resources

DATABASES & DATASETS

A sample of the datsets and databases which will be used in the module:

Archaeological Survey of Ireland www.archaeology.ie

Database of archaeological sites and monuments (pre- AD 1700). It includes The Record of Monuments & Places (RMP) in the R.of I.

BBC: Northern Ireland Poets: An Introduction www.bbc.co.uk/northernireland/schools/11_16/poetry/index.shtml

A dataset on eight poets and their poetry that accompanied a TV series. Features text, video and audio

Bibliography of Nineteenth-Century Irish Literature http://irish-literature.english.dal.ca

A dataset of writings by Irish authors, with some electronic versions of texts, from 1789 through 1914

CELT Corpus of Electronic Texts www.ucc.ie/celt/

Database of consisting of contemporary and historical texts and manuscripts relating to Ireland

Griffith's Valuation of Ireland http://www.askaboutireland.ie/griffith-valuation/index.xml

Database of land valuation and land ownership in Ireland, 1847-1864

Connacht Landed Estates Project www.landedestates.ie/LandedEstates/jsp

Database of landed estates and gentry houses in Connacht, *c.*1700-1914

National Parks & Wildlife www.npws.ie

Locations of natural heritage (flora, fauna, geology) in the R. of I. It includes Special Areas of Conservation (SACs), Special Protection Areas (SPAs), and Natural Heritage Areas (NHAs)

National Inventory of Architectural Heritage www.buildingsofireland.ie

Database of buildings and structures of architectural merit (post-AD 1700). It includes National Inventory of Architectural Heritage (NIAH) in the R.of I.

Ordnance Survey of Ireland www.osi.ie

Mapviewer and databases of cartographic resources for the Republic of Ireland

Ordnance Survey of Northern Ireland http://www.dfpni.gov.uk/lps/

Now part of ‘Land and Property Services’ of Government of NI. Resources for cartographic coverage of Northern Ireland

Placenames Database of Ireland www.logainm.ie

Database of Ireland’s placenames (townlands, parishes, baronies, counties etc.) available in Irlsh and English versions

Programme Membership
GA_HHERG_B07 201500 Bachelor of Arts in Heritage Studies GA_HHERG_H08 201500 Bachelor of Arts (Honours) in Heritage Studies