ID5001 Enterprise, Creativity and Innovation (20)

Credits: 20.0 Semester: 1

Programme(s): Either ID5001 or ID5005 is a **Compulsory module** for M.Res. in Environmental Biology and M.Res. in Environmental Biology Conversion for Mathematical, Physical and Molecular Sciences Postgraduate Taught Programmes.

Optionally available to all Postgraduate Taught Programmes, subject to approval of Course Director/Coordinator within individual Schools.

Description: Engendering a culture of enterprise, this module integrates the theory of entrepreneurship with the practical application of new business creation and development. A combination of real-life case studies and seminars from serial entrepreneurs and other business professionals will assist candidates to access their latent creativity and innovation for idea generation. Together, this will enable students to demonstrate a sound understanding of all aspects of the commercialisation process, including the significance and protection of intellectual property rights. This will play a vital role within the group project of producing a business plan/proof of concept application/research project.

Class Hour: To be arranged.

Teaching: 8 lectures and seminars over 10 weeks.

Assessment: Continuous Assessment = 100%

ID5005 Enterprise, Creativity and Innovation (10)

Credits: 10.0 Semester: 1

Programme(s): Either ID5001 or ID5005 is a **Compulsory module** for M.Res. in Environmental Biology, M.Res in Environmental Biology Conversion for Mathematical, Physical and Molecular Sciences, and M.Res. in Structural Proteomics Postgraduate Taught Programmes.

Optionally available to all Postgraduate Taught Programmes, subject to approval of Course Director/Coordinator within individual Schools.

Description: In this module students will acquire a critical understanding of the concepts and theories that help to understand enterprise and the processes of entrepreneurship and leadership. Through these two elements students will enhance their ability to generate ideas through creative thinking and cognitive-mapping as well as understand the significance and protection of intellectual property rights. This will enable them to better instigate, facilitate and practice in a rigorous approach to entrepreneurship and executive creativity. Teaching media will include formal lectures, case study analysis, team-based workgroups and visiting speakers.

Class Hour: 2.00 – 5.00 pm Wednesday.

Teaching: One lecture and one seminar per week over 7 weeks.

Assessment: Continuous Assessment = 100%

ID5010 Geographic Information Systems for Social Research

Credits: 15.0 Semester: 1

Prerequisite: A basic ability in computer skills (Basic word processing, spread sheet analysis) gained through SALTIRE if not demonstrated

Anti-requisite: GE5005, ID5011, ID5012

Programme(s): Optional module for Health Geography Research Taught Programme

Description: This module provides an introduction to Geographic Information systems and their use in health (and related) problem solving. The module will be taught through a series of lectures, tutorials, laboratory classes and individual projects. The module will be assessed through class exercises and the final individual project. Students will be introduced to methods of acquiring, storing, analysing and displaying (2D and 3D) spatial digital data using the ArcGIS data package. An introduction to data manipulation and statistical techniques on a variety of health examples will be given.

Class Hour: To be arranged.

Teaching: Lectures, practicals and occasional tutorials.

Assessment: Continuous Assessment = 50%, Short Project = 50%

ID5011 Geographic Information Systems for Environmental Management

Credits: 15.0 Semester: 1

Prerequisite: A basic ability in computer skills (Basic word processing, spread sheet analysis) gained through SALTIRE if not demonstrated

Anti-requisite: GE5005, ID5010, ID5012

Programme(s): Optional module for Environmental Biology, Mathematics & Statistics, Economics, Management and Environmental History Taught Postgraduate Programmes.

Description: This module provides an introduction to Geographic Information systems and their use in environmental problem solving. The module will be taught through a series of lectures, tutorials, laboratory classes and individual projects. The module will be assessed through class exercises and the final, short individual project. Students will be introduced to methods of acquiring, storing, analysing and displaying (2D and 3D) spatial digital data using the ArcGIS data package. An introduction to data manipulation and statistical techniques on a variety of environmental examples will be given. The module is taught within the School of Geography & Geosciences but incorporates datasets and analysis techniques used in earth and environmental science, biology, archaeology, and mathematics.

Class Hour: To be arranged.

Teaching: Lectures, practicals and occasional tutorials.

Assessment: Continuous Assessment = 50%, Short Project = 50%

ID5012 Advanced Geographic Information Systems

Credits: 20.0 Semester: 1

Prerequisite: A basic ability in computer skills (Basic word processing, spread sheet analysis) gained through SALTIRE if not demonstrated

Anti-requisite: GE5005, ID5010, ID5011

Programme(s): Optional module for M Res in Environmental Biology Taught Postgraduate Programmes.

Description: This module provides an advanced training in Geographic Information Systems (GIS) and their use in environmental problem solving. The module will be taught through a series of lectures, tutorials, laboratory classes with emphasis on a final independent GIS project. The module will begin with an introduction to data storage and manipulation, basic analysis of 2D and 3D spatial digital data and methods of display and will conclude with database design and more advanced data analysis using ArcGIS. Assessment will be based on the class exercises and the final project. The module is taught within the School of Geography & Geosciences but incorporates datasets and analysis techniques used in earth science, biology, economics and management and mathematics.

Class Hour: To be arranged.

Teaching: Lectures, practicals and occasional tutorials.

Assessment: Continuous Assessment = 40%, Individual Project = 60%

ID5012 Advanced Geographic Information Systems

Credits: 20.0 Semester: 1

Prerequisite: A basic ability in computer skills (Basic word processing, spread sheet analysis) gained through SALTIRE if not demonstrated

Anti-requisite: GE5005, ID5010, ID5011

Programme(s): Optional module for M Res in Environmental Biology Taught Postgraduate Programmes.

Description: This module provides an advanced training in Geographic Information Systems (GIS) and their use in environmental problem solving. The module will be taught through a series of lectures, tutorials, laboratory classes with emphasis on a final independent GIS project. The module will begin with an introduction to data storage and manipulation, basic analysis of 2D and 3D spatial digital data and methods of display and will conclude with database design and more advanced data analysis using ArcGIS. Assessment will be based on the class exercises and the final project. The module is taught within the School of Geography & Geosciences but incorporates datasets and analysis techniques used in earth science, biology, economics and management and mathematics.

Class Hour: To be arranged.

Teaching: Lectures, practicals and occasional tutorials.

Assessment: Continuous Assessment = 40%, Individual Project = 60%

SS5101 Being a Social Scientist: Skills, Processes and Outcomes

Credits: 15.0 Semester: 1

Programme(s): Compulsory module for various M.Res. Programmes.

Description: This module focuses on developing students' specific research thinking and writing skills in a practically based way. Thus, the module will address the nature of being a research social scientist including exploring some of the ethical issues involved. The module will also consider selecting suitable research questions and framing these as appropriate for Masters and Ph.D. dissertations.

Class Hour: To be arranged

Teaching: 3 hour lecture, fortnightly

Assessment: Continuous Assessment = 100%

SS5102 Philosophy and Methodology of the Social Sciences

Credits: 15.0 Semester: 2

Programme(s): Compulsory module for various MRes Programmes

Description: Beginning with a discussion of the evolution of the social sciences, this module addresses central philosophical questions of social science including discussion of epistemological and methodological aspects of positivism and interpretivism.

Class Hour; To be arranged.

Teaching: Details to follow.

Assessment: Continuous Assessment = 100%

SS5103 Qualitative methods in Social Research

Credits: 15.0 Semester: 2

Programme(s) Compulsory module for various MRes Programmes

Descripttion: This module offers both a theoretical and practical introduction to qualitative research. The diversity of the approaches to qualitative research will be addressed but the focus of the module is primarily practical necessitating the active participation of students.

Class Hour: To be arranged

Teaching: 2 hour, weekly

Assessment: Continuous Assessment = 100%

SS5104 Quantitative Research in Social Science

Credits: 15.0 Semester: 1

Programme(s) Compulsory module for various MRes Programmes

Description: This module will cover basic concepts and approaches to quantitative research in the social sciences in order to provide students with the basic quantitative tools for collecting, organising and analysing data.

Class Hour: To be arranged

Teaching: Details to follow

Assessment: Continuous Assessment = 100%