

## Sustainable Development

### Taught Programmes

Postgraduate Certificate: Sustainable Development

M.Sc.: Sustainable Development  
Sustainable Energy

M.Res.: Sustainable Development

### Programme Requirements

#### Sustainable Development

Postgraduate Certificate: 30 credits: SD5001 or SD5003  
30 credits: 5000-level modules chosen in consultation with the Programme Director and any other School involved. Permission may occasionally also be given to take some or all of these credits at 3000 or 4000 level.

Postgraduate Diploma:  
*(this is also the Taught element of the M.Sc.. programme):* 90 credits: SD5001, SD5003, SS5103, SS5104  
30 credits: 5000-level modules chosen in consultation with the Programme Director and any other School involved. Permission may occasionally also be given to take some or all of these credits at 3000 or 4000 level.

M.Sc.: 120 credits, as for the Postgraduate Diploma (taught element), plus SD5099

M.Res. Taught Element: 60 credits: SD5001 and SD5003  
60 credits: GG5002, GG5003, SS5101 - SS5104

M.Res.: 120 credits from the M.Res. Taught Element plus SD5099 (60-credit Dissertation module)

#### Sustainable Energy

Postgraduate Diploma:  
*(this is also the Taught element of the M.Sc. programmes):* 90 credits: SD5001, SD5003, SS5103, SS5104  
30 credits: 5000-level modules chosen in consultation with the Programme Director and any other School involved. These may be substituted by credits from Russian language modules at a level appropriate to the student's skills/knowledge (non-native speakers of Russian Only).

M.Sc.: 120 credits, as for the Postgraduate Diploma (taught element), plus SD5201 and SD5299

## Sustainable Development - Postgraduate 2012/13 - November 2012

SD5001 Introduction to Sustainable Development Issues				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	2.00 pm - 5.00 pm Tue.			
<p>This module provides an introduction to sustainable development. First, it introduces the history and application of the concept of sustainable development. Second, there is a series of disciplinary-based lectures that describe the nature and functioning of the social, political, economic and physical , and systems that combine to create the world that we can observe around us. Specific material will also be presented that links these various aspects together and explores their interactions.</p> <p>In addition, this module will have a short induction component to it during the pre-sessional week of term which has a three-fold purpose: (i) to introduce students to the shape of the degree program and St Andrews, (ii) allow students to explore their existing skill base and identify what skills require further work and (iii) provide a context (in the form of a field trip) within which to start an investigation of what inter-disciplinarity entails. This will entail two one-day seminars.</p>				
<b>Programme module type:</b>	Either SD5001 or SD5003 is compulsory for Sustainable Development Certificate Programme Compulsory for the Postgraduate Diploma, M.Sc. and M.Res. Sustainable Development and M.Sc. Sustainable Energy Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	1 x 3-hour seminar			
<b>Assessment pattern:</b>	Coursework = 50%, 2-hour Examination = 50%			
<b>Module Co-ordinator:</b>	Dr D McCauley			

SD5003 Master Class in Sustainable Development				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	1.00 pm - 5.00 pm Tue.			
<p>This module has four elements: (i) a series of presentations by academic experts in their chosen field of sustainable development along with structured reflection and further exploration of these various topic areas, (ii) the development and presentation (in groups) of case studies of sustainable development problems and/or exemplars of excellence in sustainable development, and (iii) two field trips to examine examples of sustainable development in practice, (iv) the completion of a master class review essay in a specialised area of sustainable development. This module is designed to provide you with an ability to critically reflect on the potential and limitations of sustainable development.</p>				
<b>Programme module type:</b>	Either SD5001 or SD5003 is compulsory for Sustainable Development Certificate Programme Compulsory for the Postgraduate Diploma, M.Sc. and M.Res. Sustainable Development and M.Sc. Sustainable Energy Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	1 x 4-hour seminar weekly plus field trips			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr D McCauley			

## Sustainable Development - Postgraduate 2012/13 - November 2012

<b>SD5201 Reflective Essay in Sustainable Energy</b>				
<b>SCOTCAT Credits:</b>	10	SCQF Level 11	<b>Semester:</b>	Either or Both
<b>Planned timetable:</b>	To be arranged.			
This is a compulsory module of the Double Masters programme in Sustainable Energy. The Reflective Essay is an integral component of reflecting on how the second year relates to the first.				
<b>Programme module type:</b>	Compulsory for the M.Sc. Sustainable Energy Postgraduate Programme.			
<b>Learning and teaching methods and delivery:</b>	No direct teaching			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr D Simatele			

<b>SD5299 Dissertation in Sustainable Energy</b>				
<b>SCOTCAT Credits:</b>	50	SCQF Level 11	<b>Semester:</b>	Whole Year
<b>Planned timetable:</b>	To be arranged			
This module creates the context within which students are able to investigate a substantive sustainable development topic in considerable depth. It is the capstone module of the Masters degree in sustainable development. The dissertation is an academic evaluation and exploration of a key debate in sustainable development. Its format is an empirically or theoretically driven essay with an upper limit of 12,000 words. The selection of the topic is negotiated between the student and relevant potential supervisors.				
<b>Programme module type:</b>	Compulsory for the M.Sc. Sustainable Energy Postgraduate Programme.			
<b>Learning and teaching methods and delivery:</b>	1 x 1-hour seminar			
<b>Assessment pattern:</b>	Coursework (Dissertation) = 100%			
<b>Module Co-ordinator:</b>	Dr D Simatele			

<b>SD5099 Dissertation in Sustainable Development</b>				
<b>SCOTCAT Credits:</b>	60	SCQF Level 11	<b>Semester:</b>	Whole Year
<b>Planned timetable:</b>	9.00 am - 10.00 am Thu.			
This module creates the context within which students are able to investigate a substantive sustainable development topic in considerable depth. It is the capstone module of the Masters degree in sustainable development. The dissertation is an academic evaluation and exploration of a key debate in sustainable development. Its format is an empirically or theoretically driven essay with an upper limit of 15,000 words. The selection of the topic is negotiated between the student and relevant potential supervisors.				
<b>Programme module type:</b>	Compulsory for M.Res. or M.Sc. Sustainable Development Taught Programme			
<b>Learning and teaching methods and delivery:</b>	1 x 1-hour seminar			
<b>Assessment pattern:</b>	Coursework (Dissertation) = 100%			
<b>Module Co-ordinator:</b>	Dr D Simatele			

## Sustainable Development - Postgraduate 2012/13 - November 2012

SS5103 Qualitative Methods in Social Research				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	9.00 am - 11.00 am Fri (provisional)			
This seminar-based module offers both a theoretical and practical introduction to the collection, analysis and writing of qualitative social science research. Among other things, the module will cover positionality/ethics, archives, participant observation, participatory approaches, semi-structured interviewing and the use of NVIVO/computer aided qualitative data analysis. Assessment will involve a short reflection on field experience and a longer critical essay on a chosen aspect of qualitative research.				
<b>Programme module type:</b>	Compulsory for Sustainable Development and Sustainable Energy Taught Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	2-hour seminar.			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr M Kesby			
<b>Lecturer(s)/Tutor(s):</b>	(Dr M Kesby prog co) and Dr M Harris			

SS5104 Quantitative Research in Social Science				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	1.00 - 4.00 pm Mon (provisional)			
This module provides a user-friendly introduction to the fundamental concepts of quantitative analysis. It will cover underlying principles, terminology, research design, sampling strategies, uncertainty and missing data, computerised data management and analysis and univariate and multivariate approaches to data analysis. The assessment will be in the form of weekly practical tasks completed in class and/or independently.				
<b>Programme module type:</b>	Compulsory for Sustainable Development and Sustainable Energy Taught Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	3-hour combined lecture and practical session.			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr M Kesby			
<b>Lecturer(s)/Tutor(s):</b>	Dr A Seed			