

# POST-GRAD DIPLOMA & MPHIL ENVIRONMENTAL MANAGEMENT

# A MULTI-DISCIPLINARY PROGRAMME WITH A UNIQUE SELECTION OF CORE AND CHOICE MODULES FROM FOUR FACULTIES

An innovative programme for a new generation of environmental managers

Practical, hands on tuition based on solid theoretical foundations



#### PROGRAMME OUTCOMES/AIMS

This structured multi-disciplinary programme has been jointly designed and developed by the **S**chool of Public Leadership (<u>www.spl.sun.ac.za</u>), the Departments of **P**hilosophy, **E**conomics, **P**ublic Law, and Geography. The main aims of this taught, multi-disciplinary programme is to develop:

- management skills that will reconcile sustainable development within the limitations of South Africa and Africa's valuable and sensitive environment and the institutional frameworks taking responsibility for it;
- abilities to formulate, interpret, implement and monitor environmental policy in the public and private sectors of Southern Africa;
- understanding of the approaches, processes and structures of environmental management in Southern Africa.

## COMPOSISTION OF THE POST GRAD DIPLOMA PROGRAMME

The programme will be presented formally during the scheduled contact sessions at Stellenbosch University on a **modular** basis with assignments completed during the interim periods between blocks. All eight (8) modules need to be completed within one (1) year and is equivalent to an honours-level programme. You only have to be in Stellenbosch during the contact sessions. Please note that attendance of these sessions is **compulsory** 

 A set of eight (8) core modules (8x1 week sessions) distributed over one year will be taught by leading experts in their fields. A teaching methodology that combines formal teaching, case studies, facilitated discussion learning and self-managed learning in a way that allows each participant to shape their own study focus.

You will eventually be required to complete assignments in which you have integrated the knowledge that you have acquired from the different modules. Large portions of the programme involve self-study. You will therefore be required to complete assignments at home in preparation for lecture sessions or as follow-ups after returning home from the contact sessions at Stellenbosch.

NB: Students must attend the full week (Monday-Friday) of classes at the Stellenbosch Main Campus.

NB: Elective modules take place at the Lynedoch campus and runs over a period of six days (Monday – Saturdays)

#### NB: No distance education options are available

Modules with their relative weighting within the programme:

| Programme Code 55255 778               |  |
|--|--|
| 1 Environmental Issues (15 credits)    | 5 Environmental Governance (15 credits)  |
| 2 Environmental Ethics (15 credits)    | 6 Geographical Information Systems in Environmental Analysis and Management (15 credits) |
| 3 Environmental Economics (15 credits) | 7 Development Planning Environmental Analysis (15 credits)                               |
| 4 Environmental Law (15 credits)       | 3 Electives (choose only 1 x 15) = 120 CREDITS   |



#### **CORE MODULES**

#### 1. Environmental Issues (School of Public Leadership)

This module aims to provide students with an understanding of the most important environmental issues of our time. We will strive to ensure that students develop a level of awareness of the causes and the limitations of our understanding of environmental processes. Central themes that will be addressed include:

- The need for a conservation ethic
- Measurement of biodiversity
- Loss of biodiversity
- Habitat destruction, degradation, fragmentation
- Biological invasions
- Global climate change
- Overexploitation
- Pollution
- Human population growth
- Ecosystem services framework
- Policy and legal frameworks to stem biodiversity loss

#### 2. Environmental Ethics (Department of Philosophy)

The central aim of this module is to enable students to recognise, describe, analyse and critically evaluate the different ethical models and value systems that underpin environmental degradation and environmental conflict, and also the different ethical models and value systems informing different approaches to environmental management and conservation. Central themes that will be addressed include:

- Different philosophical models for the conceptualisation of environmental problems
- Different approaches to environmental ethics (for example, strong anthropocentrism, weak anthropocentrism, animal rights, animal liberation, biocentric individualism, biocentric holism, ecocentrism, deep ecology, ecofeminism, social ecology, bioregionalism and environmental pragmatism)
- Environmental ethical values and principles, for example sustainability, precaution, ecological integrity
- The relationship between environmental ethical values and other values like economics, efficiency, freedom, equality and justice
- The implications of environmental ethical values for politics, economics and everyday life
- The ethical basis of environmental conflict resolution
- The ethical basis of environmental policy and management in a developing country
- Case studies

#### 3. Environmental Economics (Department of Economics)

The module aims to provide students with an understanding of the economic causes of environmental degradation and how to apply economics in environmental management. Central themes that will be addressed include:

- The inter-linkages between economic activity and the natural environment
- Efficiency and sustainability as criteria for decision-making
- The economic values of the environment and methods to determine them
- The economics of pollution: using the market to control pollution
- Cost-benefit analysis as a tool for decision-making and the problem areas in applying costbenefit analysis to environmental issues
- Management of natural capital (e.g. sea fisheries, biodiversity, water)



#### 4. Environmental Law (Department of Public Law)

Central themes that will be addressed include:

- Introduction to law.
- The nature, scope and classification of environmental law.
- The sources of environmental law.
- Historical perspective of the development of environmental law.
- International environmental law.
- The environment and the Constitution.
- Environmental governance in the national, provincial and local spheres of government.
- Implementation and administration of environmental law.
- Framework environmental legislation: The National Environmental Management Act (NEMA)
- Content of specific environmental management Acts.

#### 5. Environmental Governance (School of Public Leadership)

The following themes will be addressed:

- The meaning of environmental governance from a public and development management perspective
- The sosio-political contexts within which environmental governance takes place
- Environmental policy: environmental politics, policy instruments for environmental management, international environmental policy, the process and outcome of environmental policy reform in South Africa
- Institutional and organisational arrangements environmental management: centralisation and decentralisation, the problem of co-ordination and integration, sectoral, hierarchical, organisation types and political approaches/decisions in the development of environmental management systems, co-operation structures, networks and publicprivate partnerships as examples of organisational innovation
- Environmental governance processes, systems and structures and the interaction between context, structures and processes in environmental governance
- Environmental leadership challenges in modern community and organisational environments and decision-making processes, environmental leadership profiles and the development of environmental leadership competencies
- Collaborative environmental governance approaches like Community-based Natural Resources management (CBRM), co-management, adaptive management, public participation and multi-stakeholder dialogues.

6. Geographical Information Systems in Environmental Analysis and Management (Department of Geography and Environmental Studies)

Central themes that will be addressed include:

- Introduction to GIS
- GIS software
- GIS data models
- Projections
- Data editing
- GPS
- Queries
- Introduction to spatial analysis



#### 7. Development Planning & Environmental Analysis

Aim: this module will provide participants with an understanding of the links between science, knowledge, evidence-based policy and action for sustainability and the role of planning and environmental techniques, assessments and analyses in this process. An overview will be given on extracting, processing and presenting data; demographic and socio-economic, poverty and inequality assessments, environmental impact analysis (EIA), strategic environmental assessment (SEA), sustainability assessments and sustainability indicators. Cost-benefit analysis, multi-criteria decision analysis, transport, infrastructure, regional and urban economic analyses will also be addressed. The focus of the module will be on exploring new techniques for sustainability, of which the main themes are:

- knowledge- policy-action for sustainability
- socio-economic analysis and profiling of communities for integrated development planning
- social, poverty and inequality analyses, including participatory and action research
- "pre-design" environmental analysis, "post-design" environmental impact assessment (EIA); strategic environmental analysis (SEA) and sustainability assessments
- sustainability and ecological indicators, including the ecological footprint of a city, material flow analysis and alternative economic assessments

#### **ELECTIVES**

The elective modules are usually negotiated between individual candidates and lecturers according to the chosen or specified specialisation of the candidate. It might entail a deepening of research in an existing module or a broadening of exposure to a related area of study. Students may select to do one of the modules on offer from the other Programmes offered by the School of Public Leadership or from any other Programmes at the University of Stellenbosch on condition these have been approved by the Programme Coordinator.

Electives (x1) can be chosen from the Sustainable Development programme:

Sustainable Development 15 Credits
Applied Economics 15 Credits
Renewable Energy Finance 15 Credits

#### **Sustainable Development**

Aim: This module will be the foundation stone of the entire programme. It will provide course participants with an overview of the most significant global environmental, social and economic challenges that face humankind, and an insight into the solutions suggested by the universal commitment to sustainable development. Course participants will be able to recognise, understand and apply the divergent interpretations of sustainable development that currently exist. The main themes will include:

- review of the most important environmental problems, such as climate change, waste and pollution, biodiversity destruction, and the general contradiction between resource use and carrying capacity;
- review of the most significant social challenges, including demographic change and expansion, pandemics, poverty, endemic violence, migration and urbanisation;
- review of the key global economic trends that currently determine and shape the dynamics of national and local economies;
- introduction to the history of, and different approaches to, the notion of sustainable development;
- case studies of sustainable development in practice at the policy and project levels.



#### **Renewable Energy Finance**

Aim: This module provides students with an understanding of the financing needs and dynamics of renewable energy projects. The course provides students with insight and competencies in a number of themes, including:

- The need for financial instruments in solving environmental issues.
- The capital and operational costs of different technologies.
- Calculating the levelised cost of electricity for different energy technologies.
- The different mechanisms allowing the sale of renewable energy into the grid
- The dynamics of global carbon markets
- Calculating the Debt service coverage ratio of a project.
- Understanding how project life and other aspects can be adjusted to increase bankability.

#### **Applied Economics**

Aim: This module aims to introduce participants to the basic concepts of and insights into the crafty art and artistic craft of the orthodoxies and heterodoxies of economics in the theoretical and practical realms. The grain and texture of the course is admittedly coarse, connected to the breath/width of the module and its orientation towards the paradigms and practices of economic planning, generally, and development planning, more specifically. The elaboration - at different and linked spatial and institutional scales - of theories, policies, programmes, plans and other interventions to further the objectives and installation of pro-poor economic growth and distributional paths/trajectories/regimes constitutes the foundation/anchor of this module. Given these parameters and scope, the module grapples with a multiplicity of development planning problematic spanning the role of the state (national, provincial and local) in and the interconnections between economic and human development, refracted through the lenses of poverty eradication, redistribution and socio-economic empowerment in and beyond market-conditioned/mediated formats. Hence, the module hones in on the developmental state in its national, regional and local manifestations and the form and materiality of its interventions/activities related to macroeconomic management, employment generation and industrial development, income and asset transfer programmes, human capability enhancement, regional and local economic and infrastructure development (and more). The following broad themes are dealt with in the module:

- Introduction to Economics: Orthodoxies and Heterodoxies
- The Role of the State in Economic Development: Historical Overview
- Macroeconomic Policy and Reform: Evolution, International (Dis)/Consensus and the National Trajectory
- Economy, employment and (In)Equality: Trand and Industrial Policy, Economy and Poverty
- Geography, Economy and Planning: National and Regional Planning, Local Economic Development
- Land, Property and Financial Markets
- The Economy and the Fiscus
- Growth Paths, the State and the Future

#### **METHODS OF TUITION**

During the block sessions an interactive teaching method will be used that will consist of formal lecturing, facilitated discussion learning, case method learning and various kinds of structured group work. The main aim of this teaching approach is to ensure that members of the group learn from each other and establish strong working relationships. The facilitated discussion learning and case learning is designed to ensure that participants complement reading and listening with experiential learning that builds the capacity for sound judgement and practical wisdom. Between block sessions, course participants who return to their places of work will need to work largely on their own and connected to others via email where this is practically possible. It should be assumed that approximately 100 hours of self-managed work time will be needed between blocks for reading and writing up of assignments.



#### LANGUAGE OF INSTRUCTION

The language of instruction during tuition, discussions and presentations will be in English. Assignments, tests and examinations may be written in Afrikaans.

#### **APPROACH**

Students will be encouraged to develop, test and discuss their own study material, practical applications and evaluations within the framework of the areas within which they are professionally employed (or aim to be employed).

# ASSESSMENT: EXAMINATION REQUIREMENTS AND EVALUATION

This structured part time study programme consists of separate modules. Written theoretical, practical and examinations might be required in the respective modules.

- To pass a module, a student must achieve a mark of 50%
- To pass a module with distinction, a student must achieve a mark of 75%
- To pass the programme, an overall average of 50% is required
- To pass the Post Grad Diploma in Environmental Management with distinction (cum laude), a student must achieve a 75% average in each module

#### **ENTRY REQUIREMENTS**

Candidates may submit written applications to enter this taught Post Grad Diploma in Environmental Management if they are in possession of one of the following qualifications:

- A Bachelor's degree with a 60% pass mark in one of the following main subjects: Geography
  and Environmental Studies, Sociology, Economics, Public and Development Management,
  Geology, Botany, Zoology, Agricultural Economics, Transport Economics and Logistics,
  Forestry, Nature Conservation, Civil Engineering and Architecture, Surveying or any other
  equivalent field. Relevant work experience may be considered on application; OR
- A BTech degree in Town and Regional Planning or similar relevant subject fields; OR
- A four-year Bachelor's degree in Town and Regional Planning

It is expected of students to be computer literate.

#### **SELECTION AND APPLICATIONS**

The normal entry requirements for study at Stellenbosch University apply. Only 30 students are accepted into the programme. The programme selection committee will convene during October November. Applicants will be informed towards the end of November of the outcome of the selection process. Late applications will be considered until 15 November of every year.

Once a student has been selected and accordingly informed that his application has been successful it will be required of him/her to pay a deposit fee of **R2000 to confirm his/her place in the programme**. This fee will be deducted from the registration fee.

(See also registration)

Applications close on **31 October every year** for South African applicants and please provide all the required and any other relevant information with your application to help us with the selection process. Please read the instructions carefully and make sure that your academic transcripts are attached to



your application. You are also required to complete the School of Public Leaderships's form available on our website <a href="www.spl.sun.ac.za">www.spl.sun.ac.za</a> or contact the programme administrator at email address <a href="jis3@sun.ac.za">jis3@sun.ac.za</a> or telephone number +27 (0)21 808-2151.

The closing date for **International** applicants is **end of September every year.** Please contact the International Office for assistance with your application or for further information visit their website at <a href="http://www.sun.ac.za/international">http://www.sun.ac.za/international</a>. Their contact details are email: <a href="mailto:interoff@sun.ac.za">interoff@sun.ac.za</a> and telephone number +27 (0)21 808 2565. Note that International students will have to adhere to a different fee structure also obtainable from the International Office.

Want to request a budget?

Follow this link:

http://www0.sun.ac.za/international/about/request-a-budget.html

#### **REGISTRATION**

It will be expected of all students to be registered already once they reach campus on their first day of orientation.

The additional registration fee must be paid into the University's account no later than end of November so that the registrations can take place while students are still off campus. Once you reach campus, all the administration pertaining to registration has already been completed.

#### **BURSARY INFORMATION**

Please follow this link

http://www0.sun.ac.za/international/postgraduate-student-funding

#### **ACCOMMODATION**

Students will be responsible for their own accommodation arrangements. There is a wide range of accommodation available in Stellenbosch, from basic backpacker accommodation to guest houses. More information is available from the Stellenbosch Tourism and Information Bureau. Their contact details are as follows: Tel: +27 (0)21 883 3584; Email: <a href="mailto:info@stellenbosch360.co.za">info@stellenbosch360.co.za</a> and Website: <a href="mailto:http://www.stellenbosch.travel">http://www.stellenbosch.travel</a> . It is advisable to book in advance as accommodation in Stellenbosch is in great demand.

University Accommodation (Long-term) (www.sun.ac.za) +27 21 808 3892



#### TUITION FEES/PGD

Fees for 2018 are ±R38 900 for the 1<sup>st</sup> year of registration. Please note that the fees for 2018 will only be confirmed in October 2017. There is an additional cost for notes and excursions (approximately R2 500 per year).

These are provisional amounts (for budgeting purposes only and not binding on Stellenbosch University or any of its employees/representatives), fees for 2018 will only be finalised in October. Accommodation fees and meals are not included in the course fees.

Fees must be paid into the following University of Stellenbosch bank account:

Reference: Your student number

**University of Stellenbosch:** 

Standard Bank - Stellenbosch Branch Account Nr: 063163225 Cheque Account,

Branch Code: 050610 Swift Code: SBZAZAJJ

Student number/surname as the University's reference number

If you DO NOT complete your studies in the allotted time (1 year full-time) a **continuation fee** will be charged per year. However, continuation will not be automatically granted. Continuation is a privilege that is only granted under exceptional circumstances.

Students will be charged for (a) modules that they repeat; (b) additional modules over and above the 8 core modules; and (c) any additional fees that their electives may entail.

The University, as represented by the duly authorised decision-making body, reserves the right to amend all fees payable to the University. As a result, the above quoted fees may change by the time that registration takes place in January 2018. The School of Public Leadership and the staff associated with the management of this programme, cannot be held accountable if for any reason the above quoted fees are changed by a duly authorised University decision-making body.

**Payment Options:** The registration fee (first instalment on Class Fees) is payable on the day of registration (±R9 800 for 2018). Following registration, a full account for the year is sent out to every student.

Students will be charged for (a) modules that they repeat; (b) additional modules over and above the required 8; and (c) any additional fees that their electives may entail. (The Council reserves the right to amend without notice all fees payable to the University)

**Payment Options:** The registration fees (first instalment on Class Fees) is payable on day of registration (±R9 800 for 2018). Following registration, a full account for the year is sent out for every student. Students have the following payment options: 1 Standard Payment Option – in 2 instalments (75% of the total amount on or before 30 April and the outstanding balance on or before 31 August); 2 Payment by Debit Order System – 7 monthly instalments under the University's debit order system (first instalment payable before 1 May). Enquiries: Division for Student Fees Tel: +27 (0) 21 808-4519.



#### APPLICATION PROCEDURE

#### **CLOSING DATES FOR APPLICATIONS**

## 31 OCTOBER (POST GRADUATE DIPLOMA IN ENVIRONMENTAL MANAGEMENT)

#### 31 OCTOBER (MPHIL ENVIRONMENTAL MANAGEMENT)

The university must be in possession of ALL your supporting documents by these dates

Please do familiarise yourself with the entry requirements before applying for either of the two programmes

#### **PGD Environmental Management**

# 1. The application process for the PGD is via an online system.

#### STEP 1

Relevant information you need for the online application:

Faculty: Economic and Management Science

Department: School of Public Leadership

Programme: Postgraduate Diploma in Environmental Management

#### Apply online as follows:

http://www.maties.com

http://web-apps.sun.ac.za/eAansoek2/alg.jsp?Tl=1

- Current students enrolled at Stellenbosch University also apply online (Current students and international students are exempted of paying an application fee)
- If it is impossible to apply online, an application form may be requested from the programme administrator. See below for details.
- All applicants receive a student number via email or sms (text message). This is not an indication that you have been accepted by the University.

- If you had applied online, you need to mail proof of payment of admission fees (not applicable to international students) certificates and a signed agreement to the University at info@sun.ac.za
- Your application will be processed further unless the University receives all the documents described above.
- If your submit a paper application form please include all the documents described above and post them to the address on the application form or scan and email them to <a href="mailto:info@sun.ac.za">info@sun.ac.za</a> Please ensure that the scanned copies are clear and easy to read.
- All the relevant documents mentioned above need to be submitted to the University by 31 October in other words the University must have a complete application, otherwise your application will be considered incomplete or late.
- It is also your responsibility to follow up with the University Call Centre to confirm that your application is on the system and that all supporting documents have been received.

#### STEP 2

Once your application has been successfully processed by the University Admissions you will receive an email or sms (text message with your University password). Please note that this is not an indication that you have been accepted for the PGD programme.

#### STEP 3

Your application is reviewed by the Faculty Secretary (and International Office if you are an international student) to ensure that you comply with the entry requirements for the PGD Environmental Management programme. This process starts in the second semester i.e. from end July.

#### STEP 4

The names of applicants accepted by Faculty are sent to the Department.

#### 2. DEPARTMENTAL APPLICATION

#### STEP 5

The **Departmental application form** can be requested from the Programme Administrator or please download this from our website <a href="www.spl.sun.ac.za">www.spl.sun.ac.za</a> under downloads. There may be a substantial time lapse between your university application submission and contact by the Programme Administrator - most often this is due to university applications being incomplete, but also because the Faculty review process only commences end July. It is the



applicant's responsibility to follow up on applications submitted. The **completed departmental application form plus a motivation (1000) words** of why you wish to study the PGD Environmental Management programme must be emailed back to the Programme Administrator <u>ijs3@sun.ac.za</u> within 10 days.

#### STEP 6

Your departmental application will be reviewed and you will be notified whether your application was successful or not by the second week of November.

#### **MPhil Environmental Management**

# COMPOSITION OF THE MPHIL ENVIRONMENTAL MANAGEMENT PROGRAMME

Full Research Programme (100% thesis) (one year)

- Research Methodology Course (5 days) plus
- Research component: 180 credits (Integrated thesis written in accordance with the requirements of the University and the Supervisor (± 40 000 words [± 120 pages])

All students (no matter what prior qualifications they may have at any level or with any other institution) are required to complete the PGD before starting the MPhil. Under no circumstances will any student be allowed direct entry into the MPhil without having completed the PGD. No other degree will be recognised as an entry requirement to the MPhil

### CLOSING DATE FOR APPLICATIONS: 31 OCTOBER OF THE YEAR PRIOR FOR WHICH YOU ARE APPLYING

Preference will be given to students who obtained 65% or higher for eat of their respective modules in the BPHIL/PGD programme.

The application process is twofold, namely:

#### 1. Research Concept Note

All applicants must submit an electronic copy of a 1000 word research concept note to the Programme Administrator by 15 January of the year of study.

#### 2. Stellenbosch University application



Students who had obtained their PGD may apply online:

Necessary information: Faculty: Economic and Management Science

Department: School of Public Leadership

Programme: Mphil Environmental Management

Link: <a href="http://www.maties.com">http://www.maties.com</a>

Link: http://web-apps.sun.ac.za/eAansoek2/alg.jsp?Tl=1

**PLEASE NOTE**: Students who are conditionally accepted for the MPHIL studies are required to attend a **5 day Research Methodology Workshop** and a **Proposal Writing Workshop**.

Attendance is compulsory for all of these events.

## CONTACT THE CORRECT DIVISION FOR ENQUIRIES RELATING TO THE APPLICATION PROCEDURE:

- Enquiries relating to the online university application: University call centre, tel.
   +27 21 808 9111; info@sun.ac.za
- Enquiries relating to your PGD departmental application: JJSaunders (Programme Administrator), tel. +27 21 8082151; jis3@sun.ac.za
- Enquiries relating to funding, visas, language proficiency, etc. Postgraduate & International Office, tel +27 21 8082565; <a href="www.sun.ac.za/international">www.sun.ac.za/international</a>; interoff@sun.ac.za

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#### **CONTACT DETAILS**

For further information and application forms, contact:

**Jennifer Saunders** (Administration of the PGD/MPhil in Environmental Management Programme)

School of Public Leadership Stellenbosch University Private Bag X1 MATIELAND 7602 South Africa

Tel: +27 (0)21 808 2151 Fax: +27 (0)21 808 2085 Email: jjs3@sun.ac.za Web: www.spl.sun.ac.za