POST GRADUATE IN DISASTER MANAGEMENT P G Dipl. Disaster Management

STUDY AIMS

The main aim of the programme is to provide aspiring disaster management students or those who may have future disaster management responsibilities, training in a holistic approach towards disaster management to enable them to manage all kinds of disasters by implementing proactive disaster management strategies in terms of relevant legislation, policies and directives, and effectively co-ordinate relief and recovery programs. Students will have an understanding of the principles and practices of disaster management.

- Students register under the code **5204**

ADMISSION

(a) A student must have a minimum of 3 year degree of NQF Level 7 from any field of study
(b) A minimum average of 60% must be obtained in the final year of study
(c) The student must prove to the departmental head that he/she has adequate knowledge to justify admission to this study.
(d) Students who do not have the minimum requirements must apply through RPL (Recognition of Prior Learning)

Admission is subject to a selection process. Qualification and experience in the disaster management field will be an added advantage.

Method of presentation, evaluation and examination

(a) Candidates will have three formal contact sessions of plus or minus five days each year. During the first contact session, candidates will be orientated and will receive all module material.
(c) The programme consists of eight compulsory subjects and a field visit in one of the subjects.
(d) The programme requires practical assignments to be completed by candidates and submitted at predetermined dates. Assignments will be marked and graded by the lecturers, who will give candidates feedback in a written format and also orally during contact sessions. Assignments will be part of a continuous evaluation process. Apart from the assignments a formal examination evaluation (written) will take place at the end of each semester, normally during June and November.

The Post Graduate Diploma in Disaster Management contains 120 credits and is prerequisite to the Masters Degree in Disaster Management

Compulsory modules **Credits**

First Semester

Module Code	**Subject**	
DIM601(DIMR6810)	Research Design Methodology	15
DIM602(DIMI6810)	Introduction to Disaster Management	15
DIM603(DIMT6810)	Theoretical Models for disaster risk reduction	15
DIM604(DIML6810)	Legal and Institutional Arrangements for Disaster Managers	15

Second Semester

Module Code	**Subject**	
DIM605(DIMS6820)	Strategic Disaster Management	20
DIM606(DIMT6820)	Information Technology in Disaster Management	10
DIM607(DIMP6820)	Public Health in Disaster Management	15
DIM608(DIMN6820)	Management of natural and human-made disasters	15

CONTENTS OF MODULES

DIMR6810 - Research design and Methodology (15 credits)
Development of knowledge and skills of candidates to conduct qualitative and quantitative research. Planning, design and management of practical research. Understanding participatory action research (PAR). Construct and present a project proposal for mini-dissertation. *There will be a compulsory practical exercise in DIM 601 Research Methodology. On completion of participation in this exercise students will receive a 10% mark which is part of the final mark.*

DIMI6810 – Introduction to Disaster Management (15 credits)
The subject is about the understanding of basic terminology and concepts in disaster management. Focus will be on the disaster management continuum or cycle, the activities in both the pre and post phase of a disaster will be discussed in detail. International trends in disaster management with more emphasis on disaster risk reduction will also be discussed.

DIMM6810 - Theoretical Models for disaster risk reduction (15 credits)
This module deals with the morphology of disasters and the application of theoretical models and frameworks for DRR and more specifically disaster risk assessment. The

interaction between hazards and economic, social and environmental vulnerability as well as resiliency is the core of this module. These include (i) probability and intensity of hazards, (ii) demarcation of hazards, (iii) the use of vulnerability and resiliency indicators and (iv) the integration thereof in the disaster risk equation.

DIML6810 – Legal and institutional arrangements for disaster managers (15 credits)
The disaster management fraternity is under the mandate of various statutes, statutes enacted at both national and international levels. This subject entails a discussion of all the various statutes relevant to humanitarian work as well as ethical conducts binding humanitarian workers. Areas of focus will be on national and international Disaster Management Legislations, key factors, principles and ethics consideration for effective planning, controlling, co-ordinating, monitoring and implementing Disaster Management strategies.

DIMS6820 – Strategic disaster management (20 credits)
The focus of this module is on management principles and concepts such as strategic planning, strategic management, leadership, resource planning and management – including financial management, human resource management, logistics and administration. The project cycle, project development and project planning form an important element of this module. Sector specific plans such as the disaster management plan with its sub-plans such as the disaster risk reduction plan, disaster response plan, preparation plan and contingency plan are covered in this module.

DIMT6820 - Information Technology in Disaster Management (10 credits)
Understanding the link between decision making and information. Understanding and classify information systems that can have an impact on the dynamic disaster environment. Demonstrate the process of the development of a Management Information System. Understand the concept of simulation in decision-making for disaster management. Demonstrate how different information technologies could be used in disaster management.

DIMP6820 - Public Health in Disaster Management (15 credits)
Understanding concepts related to Public Health with regard to biological, community health and psycho-social and certain mental health implications of disasters. Biological warfare, Veterinary risks; Epidemiology: Community assessment, infection control and prevention disease. Handling and management of health risks during disasters and/or conflict. Psycho-social aspect of HIV/AIDS and Mental health burnout.

DIMN6820 - Management of natural and human-made disasters (15 credits)

Understanding the critical common factors in responding to disasters. Demonstrate the management principles of at least four natural and four human-made disasters. Assessing of hazards and risk. Vulnerability analysis. Determining the potential impacts of disasters. Social-, economics and environmental impact. Formulating of hazard and risk reduction strategies. Formulating prevention and mitigation strategies.

*Previously, this qualification was Advanced University Diploma (NQF Level 7) and has been changed to Post Graduate Diploma (NQF Level 8). This change has been submitted to the CHE in terms of the HEQF alignment process. The new qualification is subject to final approval by the CHE.

INFORMATION

STUDY AIMS

The main aim of the programme is to provide disaster management practitioners, or those who may have future disaster management responsibilities, training in a holistic approach towards disaster management to enable them to manage all kinds of disasters by implementing proactive disaster management strategies in terms of relevant legislation, policies and directives, and effectively co-ordinate relief and recovery programs. To provide students with the capacity and knowledge to plan and execute research projects.

- Students register under the code **5704**

REGULATIONS

Nota Bene: The general regulations in respect of Master's degrees (General Regulations A79 to A107 applies *mutatis mutandis* to this faculty).

Reg. H26(a) - Admission

(a) See General Regulation A80.
(b) In addition to the provisions of General Regulation A80, a candidate who wishes to enrol for the Master in Disaster Management must have one of the following:
  (i) A disaster management honours degree or equivalent from any other institute (Minimum 120 Credits, NQF Exit Level 8) with an average pass of 60%.
  (ii) A disaster management postgraduate diploma from UFS or any other institute (Minimum 120 Credits, NQF Exit Level 8) with an average pass of 60%.
  (iii) The student must prove to the departmental head that he/she has adequate knowledge to justify admission to this study.
  (iv) Practical and/or preparatory experience will be an added advantage.
  (v) Student must submit a research proposal together with the application

(vi) A student with an honours degree or equivalent qualification and necessary experience in disaster management may be accepted by the selection committee but might be required to enrol for additional post graduate diploma subjects.

Nota Bene: An Executive Committee of UFS would assess the extent, nature and suitability of experience. /or preparatory studies mentioned above.

Reg. H27(a) - Method of presentation, evaluation and examination

(a) See General Regulations A86, A94, A95, A96.
(b) Candidates will have two or three formal contact sessions of plus or minus five days each year. During the first contact session, candidates will be orientated and will receive study materials.
(c) The programme consists of eight electives of which a student should elect a minimum of 60 credits. Each elective consist of practical assignments to be completed by candidates and submitted at predetermined dates. Assignments will be marked and graded by the lecturers, who will give candidates feedback in a written format and also orally during contact sessions. Assignments will be part of a continuous evaluation process.
(d) The programme also consists of a compulsory research project reported in an dissertation format plus a draft paper for publication;
(e) A formal and compulsory theoretical examination will take place at the end of the semester;
(f) A Practical examination will take place during the mid term;
(f) If a student has not passed or completed the electives but has sat for the practical examination, the practical examination is valid only for 2 years from the year the student sat for the practical examination.

Reg. H28(a) - Year mark and pass mark

(a) See General Regulations A92 and A93.
  (a) A semester mark for admission to the examination is required for all the theoretical modules.
  (b) The way in which a year mark and pass mark is calculated and whether a sub-minimum is required for parts of a course is contained in the respective study guides for each module.

Reg. H29(a) - Duration of study

The degree can be offered over a minimum period of one year (full time). Students will be allowed to take the degree over a two-year period (part time).

Reg. H30(a) - Learning programme

Compulsory

DIM791	Thesis	120

Electives (choose any two):

Module Code	**Subject**	
DIM701(DIMH7910)	Disaster Mental Health	30
DIM702(DIMP7900)	Political Strategic Planning	30
DIM703(DIMG7900)	Geographical Information Systems and Remote Sensing in Disaster Management	30
DIM704(DIME7910)	Ethnic and Cultural Conduct	30
DIM705(DIMM7910)	Management of media relations	30
DIM706(DIMI7910)	Disaster Vulnerability and impact assessment	60
DIM707(DIMW7910)	Water related disasters	60
DIM708(DIMD7910)	Ecosystems in disaster risk reduction	60

CONTENTS OF MODULES

DIM701(DIMH7910) **– Disaster Mental Health (30 credits)**
The management of crisis intervention and trauma management to support victims of traumatic incidents. Posttraumatic-stress and burn-out resulting from long-term exposure to traumatic incidents and the emotional distress of victims of trauma. Action strategies for crisis workers. Coping strategies and management principles of natural disasters, human made disasters, family and sexual violence and injury, chronic and life-threatening illness.

DIM702 DIMP7900) **- Political Strategic Planning (30 credits)**
The main aim of this module is the development of sophisticated techniques within the context of political environmental analysis with specific emphasis on forecasting. Specific attention will be given to scenario development as a technique for predicting the future.

DIM703(DIMG7900) **- Geographical Information Systems and Remote Sensing in Disaster Management (30 credits)**
This module pays pertinent attention to information needed within the organisational context. The importance of information to the manager, how he/she applies it, how the information is retrieved and from what type of sources are only a few of the issues which will be discussed. Applications of information in the industry, information systems and their management, as well as the integrity thereof will be explored.

DIM704(DIME7910) **- Ethnic and Cultural Conduct (30 credits)**

The nature and development of human settlement. The nature of settlement in Africa. Indigenous settlement patterns. Formal and informal urbanisation. Anthropology of poverty. Ethnography of urbanisation. The ethnic and cultural influences on human settlements in multi-cultural urban environments. Problems created by the present tendencies in urban settlement from an anthropological perspective.

DIM705(DIMM7910) **- Management of media relations (30 credits)**
Understanding the influence of old-fashioned charity approach and the rights-based approach to the provision of humanitarian assistance has on public participation. Role of communities in all phases of disaster management if public participation programme is planned and co-ordinated effectively. Risk communication. Releasing information to the community.

DIM706(DIMI7910) **- Disaster vulnerability and impact assessment (60 credits)**
Environmental damage assessment: damage risk assessments on humans lives, farm and range lands, water and aquatic lives and air, vegetation and stratosphere. Post damage assessments. Pre- and post-damage remedies. Social dimensions of environmental degradation; drought risks and impacts on food production and supply, disease epidemics, political conflicts, refug ees and pollutant emissions. Economic impacts of disasters; economic risk assessment, valuing of disaster damage (cost-benefit analysis and environmental impact assessment) and forecasting of disaster risks. Biological and biophysical aspects of environmental degradation; pests and diseases attack, microorganisms as polluting agents of food and drinks, microorganisms roles in biodegradation. Policy dimensions to environmental disasters. Quantitative method to determine vulnerability and risks. Case studies to determine the vulnerability of communities and communities at risk. Actuary probability theory. Determining the probable disaster loss. Using vulnerability and risk assessment to formulate prevention and mitigation strategies.

***DIM707**(DIMW7910) **- Water-related disaster risk management (60 credits)**
The subject will offer the students the opportunity to acquire skills and knowledge in an intra and multidisciplinary course to understand and manage disasters and their consequences. This subject entails seven modules about water related disasters. the modules are as follows: weather and climate, waterborne diseases, early warning and information systems, droughts and water scarcity, floods, water pollution and legal or institutional.

DIM708(DIMD7910) **– Ecosystems in Disaster Risk Reduction (60 credits)**
This highly interactive and problem-based course provides students with theoretical concepts and Practical tools in understanding environment and disaster linkages and applications of ecosystem-based disaster risk management. This module contains fundamental knowledge, theories, principles and practices relevant to Eco-DRR/CCA

including the approaches and tools of mainstreaming the environment into disaster risk reduction and climate change adaptation.

DIM791(DIMR7900) **- Extended research essay (120 credits)**

Professors:
Prof. R. Bragg

Associate Professor:
Prof.B.Grove

Affiliated Associate Professor
Dr D.Sakulski

Senior Lecturers:
Dr L.Terblanche
Dr D. Chikobvu
Dr C.Barker
Dr A.O. Ogundeji
Dr H.Booysen
Dr Schutte-Smith, Marietjie

Junior Lecturers:
Ms L.Nogabe
Ms M. Joubert

Lecturers:
Mr J.Belle

Ms. A. Ncube
Ms. O.Kunguma
Ms L. De Wet
Dr E. Du Plessis
Mr S.Carstens
Mr A.Kesten
Mr W.F Ellis

Laboratory Assistant
Ms. J. Swanepoel

Visiting Lecturers
Mr M. Procter
Mr. J. Mwatenga