ACADEMIC DEGREE PROGRAMMES AT THE CENTRE

I. PGD COURSE MODULES AND THEIR DESCRIPTION

PGD MODULES AND COURSE STRUCTURE

	COURSE CODE	COURSE TITLE	CREDIT UNITS
1	DRM 701	Research Methods in Disaster Risk Management	2
2	DRM 702	Introduction to Disaster Risk Management& Response Mgt	2
3	DRM 703	Introduction to Development Studies & Planning	2
4	DRM 704	Hazard Identification, Risk and Vulnerability Assessment	2
5	DRM 705	Introduction to Disaster Risk Reduction DRR and DRM Frameworks	2
6	DRM 706	Principles of Geospatial Technologies in DRM	2
7	DRM 707	Community Based Approach to DRM	2
8	DRM 708	Health, Safety & Environment (HSE) for DRM	2
9	DRM 709	Principles of Humanitarian Service in DRM and Emergency Response	2
10	DRM 710	Field Work & Seminar	2
11	DRM 720	Research Project	6
		Total	**26**

PGD COURSE MODULES AND THEIR DESCRIPTION

DRM 701: Research Methods in Disasters Studies (2 Credits)

The students will be introduced to the methodology of scientific research, reasoning and analytical techniques in Disaster Studies. It covers research methods; Types and sources of disaster data; Hazard and Disaster data acquisition techniques; Sample design and sampling procedures; Quantitative techniques for data analysis; Proposal development and report writing

DRM 702: Introduction to Disaster, Emergency & Response Management (2 Credits)

This course introduces the students to the concepts and terminologies in disaster studies and emergency management. It explores the definitions and classification/types of hazards (natural, man-made or technological disasters) and Disasters Management Cycle. It also covers classification and types of emergencies. Response Management: Types and Functions of Response, Response time, the Responders, Pre, during and Post Disaster Response Management.

DRM 703: Introduction to Development Studies and Planning (2 Credits)

The key objectives of this module is to expose the students to the basic concepts related to the Sociology, Politics and Economics of Development. It will cover concepts and theories in development studies, growth and development; nature and indices of development; Foreign direct investment and development; Environment and development; Human rights and global politics/policies of development. Development advocacy, UN Sustainable Development Goals (SDGs) and social and developmental problems facing less developed countries. It will also draw a link or nexus between development and disaster management, measuring impacts of disasters on development and vice versa.

DRM 704: Hazards Identification, Risk and Vulnerability Assessment (2 Credits)

This module aims to develop the students' conceptual understanding of hazard, exposure, risk, vulnerability and disaster. The course explains how vulnerability and hazard interact to create disasters. The thrust of this course is on the basic methods of hazards and risks identification; methods of determining vulnerability to risks; Tools for assessing and monitoring disaster; Determinants of community vulnerability to disaster; Qualitative and quantitative methods of vulnerability assessment and capability analysis; vulnerability mitigation and prevention strategies; etc.

DRM 705: Introduction to Disaster Risk Reduction (DRR) and DRM Frameworks (2 Credits)

This module is meant to introduce the Goal and Objectives of Disaster Risk Reduction to the students. Expose them to the different frameworks, approaches, methods and targets of DRR - from disaster preparedness, prevention to recovery; which include Conceptual Framework of Disaster Risk Reduction – e.g. Kyoto Protocol, the Sendai Framework for Action, Agenda 2030, etc. DRR Measures and Risk Reduction strategies – e.g. Assessment, Early Warning, Social and Economic Developmental Practices, etc. Understanding Resilience and Adaptation/Coping Strategies. Declaration, Institutions and Regional groupings for DRR.

Existing institutional and policy framework for disaster management in Nigeria. The Act establishing the National Disaster Management Agency (NEMA) in Nigeria; Key functions and mandates of NEMA; Disaster Management Structure and Governance in Nigeria - NEMA, SEMA, LEMA. Key Players and Partners in DRM/DRR in Nigeria - Communities, Media, NGOs, FBOs, Volunteers, Red cross, international development partners – UNICEF, UNDP, etc. Policy Frameworks - National Disaster Management Policy, National disaster management framework; Disaster management coordination, collaboration and networking; Mechanisms for emergency and crisis management in Nigeria; Evacuation, rehabilitation and recovery procedures; Preparation of recovery plan and its implementation; Role of cognate agencies – National Space Development Agency, National Centre for Remote Sensing, Fire services, FRSC, etc .

DRM 706.: Principles of Geospatial Technologies in DRM (2Credits)

This course will introduce the students to the basics of Remote sensing (RS) and Geographical information system (GIS); General principles and overview of RS and GIS and their applications in disaster management such as Hazard identification and mapping, Risk Mapping and Monitoring; Use of RS and GIS in natural disaster forecasting, early warning and management of extreme natural events; Case studies of hazards and disaster mapping application with RS and GIS.

DRM 707: Community Based Approaches to Disaster Risk Management (2 Credits)

Perception and attitude of community to disasters; Community based approaches to disaster risk management and hazard mitigation; Community involvement towards prevention of disasters; Development of community based disaster risk management plans; Consideration of elements of social vulnerability parameters such as health, education, gender etc. in disaster risk management; Barriers to development of disaster risk management and adaptation plan- such as lack of information, community participation, and linkages between local actions and national strategies, proper balance of trust in traditional knowledge and appropriate technology; Community based disaster relief systems; Involvement of communities in development of long term recovery and rehabilitation plans, their implementation and monitoring; The roles of NGOs\CBOs in Disaster Management Case studies.

DRM 708: Health, Safety & Environment (HSE) for DRM (2 Credits)

Introduction to public or occupational health and safety; Scope and role of public health in DRR; Health intervention in disaster; Health aspects of disasters/major emergencies: post-disaster phase public health, disease surveillance during and after disaster; Health Education; Behavior Change communication; Hospital Casualty Management; Control of communicable disease, immunization and rehabilitation; Role of the institutions; Public health challenges in disaster management in Nigeria. International Standard classification of Occupation [ISCO-88]; National Implementing Legislations, Common workplace hazard groups and principles of controlling occupational hazards in workplace. Occupational Risk assessment; Future development and challenges.

DRM 709: Humanitarian Principles and Values in Disaster and Emergency (2 Credits)

This module provides a clear understanding of humanitarianism and humanitarian principles underlying the response to hazards, disasters and conflicts. Understanding of the multiple stakeholders involved in humanitarian emergencies, disaster risk and post-disaster response and recovery management. The standards to be upheld in humanitarian aid, relief and rehabilitation and development. It highlights the need for accountability and transparency during disaster responses through various practical examples and illustrations. This module also covers the followings: Humanitarian Imperatives; Role of International Laws with components drawn from Humanitarian law, Human rights law, Refugee law; UN Guiding principles on Internally Displaced Persons (IDPs); International Humanitarian Law and role of ICRC; Protection issues in humanitarian assistance; Humanitarian accountability; Role of Red Cross covering IFRC's Strategy 2020, Red Cross /NGO Code, RC/RC Principles.

DRM 711.2 Field Work & Seminar (2 Credits)

This course is intended to expose the Students to practical field exercise. The students will undertake a field trip to disaster prone areas and do a practical assessment of disaster cases. A report of the fieldwork will be

submitted and graded accordingly. This report will be presented using power-point in a seminar arranged for that purpose.

DRM 720:2 Research Project (6 units)

Each student will be required to write a terminal project on a topic of choice under the supervision of a competent expert before graduation. The outcome of the project will be presented before internal examiners for assessment. All students must submit a project and pass the project assessment as a condition for graduation.

II. M.SC COURSE MODULES AND THEIR DESCRIPTION

M.SC COURSE STRUCTURE

S/No	COURSE CODE	COURSE TITLE	CREDIT UNITS
1	SGS 801	ICT, Research Ethics and Analytical Methods	2
2	SGS 802	Disaster Risk Management Financing & Entrepreneurship	2
3	DRM 801	Fundamentals of Disaster Risk Management and Legal Frameworks.	3
4	DRM 802	Disaster Preparedness, Vulnerability & Risk Assessment a& Adaptation Planning	3
5	DRM 803	Geospatial Tools and Disaster Communication	3
6	DRM 804	Occupational/Public Health and Modern Safety Services in DRM.	2
7	DRM 805	Oil & Gas Disaster Risk, Impact and Response Strategies	2
8	DRM 806	Climate Related Disaster Risk and Mitigation	2
9	DRM 807	Fire Disaster and Management	2
10	DRM 808	Building Construction Disaster Risk and Mitigations	2
11	DRM 809	Transportation and Logistics Disaster Risk Management	2
12	DRM 810	Refugee Crisis and IDP Management	2
13	DRM 811	Field Work and Seminar	2
14	DRM 820	Dissertation	6

SUMMARY:

Courses (13) = 35 Units

Dissertation = 6 Units

Total Credit Units = 41 Units

M.SC COURSE STRUCTURE AND DESCRIPTION

SGS 801.1: Research Methods, ICT and Analytical Techniques (2 Credits)

The course is designed to expose the students to the knowledge and skills required to conduct qualitative and quantitative research in disaster and risk management, by using the scientific methods for collecting organizing, summarizing, presenting, and analysing data. Emphasis will be on field processes; research design; research problem identification; research instruments; types, sources of disaster data and acquisition processes; sample and sampling techniques; hypotheses formulation and testing; probability assessment; descriptive, simple inferential and spatial statistical techniques. It also covers basics of PowerPoint Presentation; organization of technical report writing; referencing format; proposal for grants; and research ethics guidelines with emphasis on Anti-plagiarism checks.

CGS 802.2 – Disaster Risk Management Financing and Entrepreneurship (2 Credits)

The course will cover Business environment, general management, financial management, sources of disaster financing, cost benefit analysis of disaster, entrepreneurship development, feasibility studies, marketing and managerial problem solving. This should reflect for instance, Disaster Economics, Risk and Disaster Management Systems; Damage and loss accounting/estimation in recovery planning; Insurance in DRM; Business Continuity Planning; etc.

DRM 801.1: Fundamentals of Disaster Risk Management and Legal Framework. (3 Credits)

Introduces students to the global disaster risk situation, basic concepts, elements, disaster categories and overview of disaster management. The course is designed to provide the basic conceptual background of disaster management to the students. The contents include: basic concepts of hazards, risks, disasters, resilience and vulnerability; types of disaster/ hazards; emergency and disaster; hazards and risk management; theories and models of hazards; physical, social and economic determinants of vulnerability; causes of geophysical, biological, hydro-metrological and technological hazards and disasters. Case studies dealing with relevant hazards will also be considered. Legal aspects of disaster management. It will advance the student's knowledge of the legal basis and requirements for disaster management; National Emergency Management Agency (NEMA) Act; Environmental protection laws in Nigeria – Environmental Impact Assessment Decree, NESREA Act; National Oil Spill Regulatory Agency, etc.; Disaster insurance laws and regulations; Global case studies of disaster management legislations; Global treaties on disaster risk reduction (Hyogo Framework of Action); Strategies for disaster law enforcement; Constraints and challenges of enforcing disaster related laws; Role of Human Rights/ Civil liberty organizations in Disaster Management, Humanitarian Laws, DRR Laws, International Laws etc.

DRM 802.1: Disaster Vulnerability/Risk Assessment and Adaptation Planning (3 Credits)

Introduces students to the basic methods and dimensions of hazards and risks identification, impacts and trends covering the nature, categories, perception, communication, assessment, and management of risks. It also covers disaster risk vulnerability assessment, determinants of community vulnerability and adaptation planning to risks and disaster. It will cover concepts, elements and factors of human vulnerability and adaptation; vulnerability capacity assessments and monitoring tools; qualitative and quantitative methods of vulnerability assessment; risk actuary; probability theory. The course will also cover basic development planning issues and theories with regards to disaster prone areas. There will be emphasis on basic development theories, concepts and processes; development strategies and problems; dualistic and unilinear concept of development; participatory development; planning issues; variables and strategies of sustainable development; mainstreaming disaster risk reduction into development planning, Sustainable Development Goal (SDGs), Agenda 2030, Sendai Framework for Action and Africa Regional Strategy for Disaster Risk Reduction, etc.

Geoinformation in risk pattern and condition; vulnerability mitigation and prevention strategies; index and frameworks; assessment of damage, loss and recovery, need assessment and analysis. Principles, dimensions, measures and problems of disaster preparedness planning. It involves disaster preparedness practices, information resources, setting up disaster committee, documenting disaster arrangements, conducting preparedness training and testing preparedness arrangement. Other topics include the role of experts, information dissemination, capacity-building principles, coordination of planning and management teams. It will also cover capacity of national disaster management institutions to formulate and design disaster management strategy; knowledge management and community participation; resources mobilization through efficient budgeting, implementation, and monitoring; other donor agencies and collaborating institutions, etc.

DRM 803: Geospatial Tools and Disaster Communication (3 Credits)

It introduces the students to various tools of disaster management such as Remote sensing, Global positioning system (GPS) and Geographic information system (GIS), Cartographic visualization and mapping. Emphasis will be on their applications to planning, mitigation and management of disaster risk situations. The contents include: types and sources of geographic (RS/GIS) data; Data requirements for disaster management;

Information generation for decision-making; GPS for hazard and vulnerability field data collection; Application of Risk Information and Spatial Data Infrastructure; Database generation and risk mapping; Remote sensing applications to disaster management and Change detection, hazard analysis, and Cartographic visualization and mapping of analyzed pattern, Risk and vulnerability assessment using GIS tool; Geospatial applications for Early Warning Systems and Disaster Monitoring. The course is also designed to expose students to: The nexus between information and decision making; information management concepts and principles; uses of information and communication technologies in disaster management; strategies for public awareness generation and civil society engagement; information for social mobilisation and targets group advocacy; information monitoring and evaluation of feedbacks for disaster management. Roles of the media in disaster information management and public education; risk communication and the practice of releasing information to the community; objectivity and neutrality in the reporting of emergency situations; investigative journalism and risk management in volatile environments and official policies on the information. Early warning system and information dissemination; concept and role of disaster/emergency coordination Centre.

DRM 804: Occupational / Public Health and Modern Safety Services. (3 Credits)

The module covers two main streams namely responses to industrial, chemical and medical and epidemiological emergencies. Occupational/Public Health and Modern Safety Services, with particular attention on the Preparedness and Response Capacity in the Health and Safety Infrastructures and Services. First, it covers Occupational Health Hazards and Coordination in the Health sector – the personnel, equipment, emergency health facilities, first aid victims' emergency care, handling of health pandemics, and volunteers' response to health emergencies and disasters. It also addresses occupational health hazards analysis as well as the Preparedness and Emergency response capacity required in this sector, etc. The second component deals with modern safety services. It looks at hazard dynamics and safety challenges; safety audits, accident investigations and the capacity to respond to them with modern safety tools.

DRM 805: Oil & Gas Disaster Risk, Impacts and Response Strategies (3 Credits)

The course introduces the students to the Oil and Gas activities/operations in Nigeria, especially in the South-South Region. It covers the disaster risk issues associated with the Oil and Gas operations/explorations, such as types and magnitude of spills, causes and effects, and evaluation and assessment of spills. It also covers response and management strategies for spill clearing/remediation, monitoring and control. The course provides an overview of the various approaches being adopted by Oil & Gas companies towards risk reduction, preparedness and recovery plans. It covers factors exacerbating host community vulnerability, coping capacity, resilience as well as adaptation to associated hazards. The course also provides adequate knowledge on the immediate and long-term management of the post-impact phase of a disaster. It covers units such as themes, activities, structure, and challenges of disaster response management; damage and loss estimation; damage and reconstruction need assessment; themes of disaster response planning; resource mobilization for rehabilitation and reconstruction. It also exposes the students to theoretical and practical issues in disaster response and recovery such as organizing search and rescue operations; Evacuation types (emergency, forced & voluntary); Simultaneous and stage evacuation strategies; Evacuations decision-making strategies; Evacuation need assessment; Determinants of field clearance time; Effectiveness of evacuation strategies; Recovery action and operation; Shelter requirements and strategies; Restoration of basic services and functions; Damage inspection, repair and recovery procedures; Building back better Recovery agencies; case studies and simulation exercises.

DRM 806: Climate Related Disaster and Adaptation Strategies (3 Credits)

Climate change is a global phenomenon with severe implications for hazard and disaster risk. This course is designed to introduce the students to the issues of climate change as it affect disaster occurrence and management. The contents include: meaning and theory of climate change; factors and parameters of climate change; global distribution of climatic elements and debate on change; adaptation and mitigation measures for climate variability and change; risks associated with climatic and environmental changes; climate change impact, natural hazards and underlying risk factors; integrative policy frameworks and measures for reducing the impact of climate change; Climate change impact on socio-economic and cultural development; institutional and legal considerations in climate change controls and case studies on climate change issues. The course also provides adequate knowledge on the immediate and long-term management of the post-impact phase of a disaster. It covers units such as themes, activities, structure, and challenges of disaster response management; damage and loss estimation; damage and reconstruction need assessment; themes of disaster response planning; resource mobilization for rehabilitation and reconstruction. It also exposes the students to theoretical and practical issues in disaster response and recovery such as organizing search and rescue operations; Evacuation types (emergency, forced & voluntary); Simultaneous and stage evacuation strategies; Evacuations decision-making strategies; Evacuation need assessment; Determinants of field clearance time; Effectiveness of evacuation strategies; Recovery action and operation; Shelter requirements and strategies; Restoration of basic services and functions; Damage inspection, repair and recovery procedures; Building back better Recovery agencies; case studies and simulation exercises.

DRM 807: Fire Disaster Management (3 Credits)

This course seeks to expose students to the causes of fire; Firefighting, prevention and protection; Fire spread mitigation measures; Fire emergency procedures; Fire prevention laws in Nigeria, National Fire Safety Code, Safety laws enforcements and public education. Others are types and nature of fire – like forest and rangeland fires, market and domestic fires. It equally addresses Fire damage evaluation and assessment, required capacity for Preparedness and Emergency response as well as safety challenges in National Development. The course also provides adequate knowledge on the immediate and long-term management of the post-impact phase of a disaster. It covers units such as themes, activities, structure, and challenges of disaster response management; damage and loss estimation; damage and reconstruction need assessment; themes of disaster response planning; resource mobilization for rehabilitation and reconstruction. It also exposes the students to theoretical and practical issues in disaster response and recovery such as organizing search and rescue operations; Evacuation types (emergency, forced & voluntary); Simultaneous and stage evacuation strategies; Evacuations decision-making strategies; Evacuation need assessment; Determinants of field clearance time; Effectiveness of evacuation strategies; Recovery action and operation; Shelter requirements and strategies; Restoration of basic services and functions; Damage inspection, repair and recovery procedures; Building back better Recovery agencies; case studies and simulation exercises.

DRM 808: Building Construction Disaster Risk and Mitigation (2 Credits)

The focus of this module is to help students appreciate the common risks in civil and mechanical construction sites, types of risks in the built environment; causes of building collapse and Urban and Regional Planning measures for disaster management and risk reduction. The course content includes Physical development activities and land use; Roles of Urban Planning in community security and DRR; Planning principles and design for DRR; Classification of disaster risk areas; Land use and development control for DRR; Related Town planning laws, regulations and Enforcements for DRR (building codes; zoning ordinance; land use standards etc.); urban development and flood occurrence in Nigeria, urban and regional strategies for flood management and control, Integrated Waste management strategies for DRR. Community Resilience and Sustainability Actions for DRR..

DRM 809: Transportation & Logistics in Disaster Risk Management (3 Credits)

This course is meant to introduce students to the basics of transportation safety management and logistics needs in DRM. It covers the purpose and modes of transportation; transport safety, emergency evacuation route planning and management; accident investigation and risk assessment; the concept of search and rescue operation with emphasis on disaster victims' evacuation logistics; reliefs supply chain and other services; distribution network decisions and coordination. The course also provides adequate knowledge on the immediate and long-term management of the post-impact phase of a disaster. It covers units such as themes, activities, structure, and challenges of disaster response management; damage and loss estimation; damage and reconstruction need assessment; themes of disaster response planning; resource mobilization for rehabilitation and reconstruction. It also exposes the students to theoretical and practical issues in disaster response and recovery such as organizing search and rescue operations; Evacuation types (emergency, forced & voluntary); Simultaneous and stage evacuation strategies; Evacuations decision-making strategies; Evacuation need assessment; Determinants of field clearance time; Effectiveness of evacuation strategies; Recovery action and operation; Shelter requirements and strategies; Restoration of basic services and functions; Damage inspection, repair and recovery procedures; Building back better Recovery agencies; case studies and simulation exercises.

DRM 810: Refugee Crisis and IDP Disaster Management (3 Credits)

Examine cases such as natural and human-induced emergencies; civil conflicts, insurrections, and political violence; Mechanisms for emergency and crisis management in Nigeria; Evacuation, rehabilitation and recovery procedures; Preparation of recovery plan and its implementation. This course also dissects Humanitarian Operations, Principles & Values and victims management. This involves identifying locations, shelters, and management of internally displaced persons (IDPs) and refugees. The United Nations High Commission for Refugees, the legal status of refugees, qualification for a refugee status in Nigeria; Human Rights and the rights of refugees; Registration, repatriation and reintegration of refugees and IDPs; Resource mobilization for their care and management; Challenges of handling refugees and IDPs in Nigeria.

DRM 811 : Field Work and Seminar (2 Credits)

The course is designed to expose students to field-based exercises in DRM. The components include a study trip to a chosen location, field survey, data collection, analysis and report writing on locally identified environmental hazards, risks and disasters. Students will be exposed to practical field exercises in order to sharpen their skills in DRM. Thereafter, a seminar session will be organised for fieldwork reporting and presentation.

DRM 820: M.Sc. Research Dissertation (6 Credits)

The research dissertation shall be original work on an approved topic in the area of disaster risk management. The research outcome is expected to contribute to knowledge in accordance with the regulations of the School of Graduate Studies as approved by the University Senate.

III. PhD COURSE MODULES AND THEIR DESCRIPTION

PhD COURSE STRUCTURE

	COURSE CODE	COURSE TITLE	CREDIT UNITS
1	DRM 901	Philosophy and Principles of Disaster Risk Management	3
2	DRM 902	Research Methods & Advanced Quantitative Techniques in DRM	3
3	DRM 903	Fundamental and Contemporary Issues in Development Studies	3
4	DRM 904	Disaster Laws, Regulatory Policies and Institutional Frameworks	3
5	DRM 905	Information and Communication Strategies in Humanitarian Operation and Disaster Risk Management	3
6	DRM 906	Disaster Risk Economics and Accounting	3
7	DRM 920	PhD Research and Thesis	9
		Select and Register for ONE Elective Course	
8	DRM 907	Fire Disaster Risk Management	2
9	DRM 908	Transport And Logistics Disaster Risk Management	2
10	DRM 909	Flood and Climate Related Disaster Risk Management	2
11	DRM 910	Public Health, Safety and Medical Emergency Response	2
12	DRM 911	Oil and Gas Industry Disaster Risk Management	2
12	DRM 912	Planning and Building Construction Disaster and Response	2
13	DRM 913	Refugee Crisis and IDP Disaster Management	2
14	DRM 914	Social and Political Disaster Risk Management	2

SUMMARY:

Compulsory Courses (6) = 18 Units, Electives (1) = 2 Units, Thesis = 9, Total Credit Units = 30

PhD COURSE MODULES AND DESCRIPTION

A. COMPULSORY COURSES

DRM 901 – Philosophy and Principles of Disaster Risk Management (3 Credits)

This course consists of seminar presentations and discussion of students' assignments on the various themes and philosophical streams in the discipline: philosophical foundation of disaster; schools of geographical thought; critical evaluation of the paradigms of determinism, possibilism, probabilism and human ecology in examining sustainable and unsustainable human-ecosystem interaction; theories, laws and models in disaster management.

DRM 902 – Research Methods & Advanced Quantitative Techniques in DRM (3 Credits)

This is a directed reading course covering available literature in research methods and quantitative techniques in Disaster Risk Management and Development studies. The application of each method in modelling and evaluating hazards, risks, disaster and development in a problem-solving research scenario will be emphasized. The advantages and limitations of each techniques will be explored.

DRM 903 - Fundamentals and Contemporary Issues in Development Studies (3 Credits)
This module presents a balanced mix of economic, social, political, cultural and administrative premises of development, its analyses as well as its theoretical and practical dimensions. Topical issues to consider include: the nature of development and development studies; theories and strategies of development; environment and development; governance and development; the nature of development and development studies - Development in a global historical context; the nature of development studies; development and economic growth; development and social welfare /human rights; development as freedom; theories and strategies of development; theories, strategies and ideologies of development: An overview; dualistic and unilinear concept of development; indigenous knowledge and development; participatory development; Environment and development - Sustainable development; International regulation and the environment; climate change and development; vulnerability and disasters; transport and sustainability: Development pathways; Governance and development - The rising powers as development donors and partners; corruption and development; legal right and development/ disaster law; mainstreaming DRR in development planning process.

DRM 904 – DRM Laws, Regulatory Policies and Institutional Frameworks (3 Credits) This module is intended to provide a general overview on national and international laws on DRR aimed at strengthening these existing laws as legal frameworks essential to reduce existing risks and prevent new risks. Topical issues to discuss include:

- Legislation for disaster risk reduction – Global and National Checklist
- International disaster response laws, rules and principles (IDRL)
- Law and Disaster Preparedness and Response
- National and international laws, treaties, conventions, regulations and key resolutions
- Existing Policy, legal and institutional frameworks for DRR in Nigeria/other countries
- Strengthening Protection, Gender and Inclusion in Disaster Law
- Law and volunteering in emergency management
- Legal frameworks for Humanitarian operations – reliefs and aids

DRM 905: Disaster Communication and ICT in DRM (3 Credits)

Information and Communication concepts and principles; Uses of information and communication technologies in DRM and Development studies; Strategies for Information and Communication management; public awareness generation and civil society engagement; Information for social mobilization and targets group advocacy; Information monitoring and evaluation of feedbacks for disaster/emergency management; Roles of the Media in disaster/emergency information management and public education; Risk communication and the practice of releasing information to the community; objectivity and neutrality in the reporting of emergency situations; investigative journalism and risk management in volatile environments; official policies on information; Teaches you how to communicate learning in effective and attractive ways; gaining the interest of audiences, drawing upon experience and knowledge, winning audience cooperation for greater integrated activities and creating participatory exercises to help turn lessons identified into lessons learned. Early warning system and information dissemination; Concept and Role of

Disaster/Emergency Coordination Centre. The Nexus between information and decision making; Imperatives and importance of effective communication etc

DRM 906 – Disaster Risks Economics and Loss Accounting Frameworks (2 Credits)
The course will evaluate concepts like Economics and costs of Risks and Disasters; Auditing and Disaster Management Systems; Damage and loss accounting/estimation in recovery planning; Insurance in DRM; Disaster recovery and reconstruction as well as concepts, practice, and guidelines. The course will also cover DesInventar as a disaster information management system; DesInventar basic events, methodology, benefits and challenges; migrating from DesInventar to Sendai Framework Format and practical exercises on the application of DesInventar. The basics and purpose of Business Continuity Planning (BCP) will also be examined.

B. ELECTIVE COURSES
A minimum of one (1) elective course should be offered by all PhD Students in addition to the compulsory ones. Students will be appropriately guided in the choice of which of the modules to register.

DRM 907 – Fire Disaster Risk Management (2 credit units) This course seeks to deepen the knowledge of students in contemporary skills and knowledge in firefighting. perception and attitude of community to disasters; Community based approaches to disaster risk management and hazard mitigation; Introduction to Community Participatory Approaches (CPA); Cross cutting issues in CPA, tools & techniques; Community involvement in the development of community based disaster risk management plans; Consideration of elements of social vulnerability parameters such as health, education, gender etc. in disaster risk management; Barriers to development of disaster risk management and adaptation plan- such as lack of information, community participation, and linkages between local actions and national strategies, proper balance of trust in traditional knowledge and appropriate technology; Community based disaster relief systems; Involvement of communities in development of long term recovery and rehabilitation plans, their implementation and monitoring; Drafting a Community Action Plan; Practicing the tools; Community Based Risk Assessment (CBRA); preparation of Risk assessment and CBRA report; The roles of NGOs\FBOs\CBOs in Disaster Management Case studies. In a nutshell, the course covers the current trend and issues in fire disaster management.

DRM 908: Transport and Logistics Disaster Risk Management (2 credit units). It is hoped that students will be adequately equipped with an understanding of the dimensions of the risks associated with the different modes of transportation; Causes and types of transportation disasters and its management approaches.

DRM 909: Flood and Climate-related Disaster Risk Management (2 credit units). The course will bring to the fore the complexities of natural hazards including floods, earthquakes, volcanoes, droughts and the impact on livelihoods. Students will also learn to evaluate the management issues and challenges associated with such hazards, and how these can be applied to major incident management, risk reduction and recovery and national planning. Perception and attitude of community to disasters; Community based approaches to disaster risk management and hazard mitigation; Introduction to Community Participatory Approaches (CPA); Cross-cutting issues in CPA, tools & techniques; Community involvement in the development of community based disaster risk management plans; Consideration of elements of social

vulnerability parameters such as health, education, gender etc. in disaster risk management; Barriers to development of disaster risk management and adaptation plan- such as lack of information, community participation, and linkages between local actions and national strategies, proper balance of trust in traditional knowledge and appropriate technology; Community based disaster relief systems; Involvement of communities in development of long term recovery and rehabilitation plans, their implementation and monitoring; Drafting a Community Action Plan; Practicing the tools; Community Based Risk Assessment (CBRA); preparation of Risk assessment and CBRA report; The roles of NGOs\FBOs\CBOs in Disaster Management Case studies

DRM 910: Public Health Disaster Risk Management (2 credit units). Attention will be paid to medical emergencies disaster and interventions by local and international donor agencies, responses. Throughout this unit, students will examine public health resilience and response strategies, within the context of disaster management. Looking at current national and international best practice drawn from a combination of academic and professional practitioner approaches to healthcare resilience, students will learn methods for establishing effective healthcare emergency preparedness, resilience and response systems.

DRM 911: Oil and Gas Industry Risk Management (2 credit units). This course specifically seeks to expose students to oil industry-based hazard and risk, safety culture and international best practices. It covers the disaster risk issues associated with the Oil and Gas operations/explorations, such as types and magnitude of spills, causes and effects, and evaluation and assessment of spills. It also covers response and management strategies for spill clearing/remediation, monitoring and control.

DRM 912: Building Construction Disaster Risk Management (2 credit units). In-depth knowledge of the construction hazard and risk, planning regulations as measures of mitigating building collapse disaster.

DRM 913: Refugee Crisis and IDP Disaster Risk Management (2 credit units). This course introduces students to the challenges that arise in IDPs. Using a set of scenarios, students explore the issues as a deployed team offering external assistance to a country faced with a number of hazards. The unit concludes by then applying those lessons identified to the home national plan.

DRM 914: Social and Political Disaster Risk Management (2 credit units). This unit focusses on the nature and types of human instigated hazards, including those on land, air and sea, alongside such issues as crowd safety and industrial accidents. Taking a case study approach, students will evaluate the lessons learned from recent reports and complete a strategic level multi-hazard planning and response exercise as part of a group.

DRM 920 – PhD Research and Thesis **(9 Credits)**

This is supervised advanced research intended to solve problems and will usually involve experiments, fieldwork and statistical analysis or simulation studies. Each student will be required to write and submit for assessment a well-researched Thesis on an approved topic under the supervision of competent experts. All students must submit and pass the Thesis assessment as a condition for graduation.