

SOCW-605

1.	Program	BS Social Work								
2.	Title	Disaster Management								
3.	Semester	6 th								
4.	Code	SOCW-605								
5.	Rating	03 Credit Hours								
6.	Introduction	This course is intended to provide fundamental understanding of different aspects of Disaster Management. It will expose the students to the concept and functions of Disaster Management and to build competencies of Disaster Management professionals and development practitioners for effective supporting environment as put by the government in legislative manner. It would also provide basic knowledge, skills pertaining to Planning, Organizing and Decision-making process for Disaster Risk Reduction.								
7.	Objectives	<p>The course aims to;</p> <ol style="list-style-type: none"> 1. Provide students an exposure to disasters, their significance, types & comprehensive understanding on the concurrence of Disasters and its management; 2. Ensure that students begin to understand the relationship between vulnerability, disasters, disaster prevention, risk reduction and the basic understanding of the research methodology for risk reduction measures; 3. Equip with knowledge, concepts, and principles, skills pertaining to Planning, Organizing, decision-making and problem solving methods for Disaster Management; and to 4. Prepare the social workers to work with a holistic approach 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 programmes. 								
8.	Contents	<table border="1" style="width: 100%;"> <thead> <tr> <th style="text-align: left;">Week</th> <th style="text-align: left;">Contents</th> </tr> </thead> <tbody> <tr> <td>Week 1-2</td> <td> Introduction <ul style="list-style-type: none"> • Meaning, Nature, Importance, Dimensions & Scope of Disaster Management • Concepts of Hazard, Risk, Vulnerability, Disaster • Disaster Management Cycle </td> </tr> <tr> <td>Week 3</td> <td> Natural Disasters <ul style="list-style-type: none"> • Natural Disasters- Meaning and nature of natural disasters, their types and effects • Hydrological Disasters - Flood, Flash flood, Drought, cloud burst • Geological Disasters- Earthquakes, Tsunamis, Landslides, Avalanches, Volcanic eruptions, Mudflow </td> </tr> <tr> <td>Week 4-5-</td> <td>Types of Natural Disasters</td> </tr> </tbody> </table>	Week	Contents	Week 1-2	Introduction <ul style="list-style-type: none"> • Meaning, Nature, Importance, Dimensions & Scope of Disaster Management • Concepts of Hazard, Risk, Vulnerability, Disaster • Disaster Management Cycle 	Week 3	Natural Disasters <ul style="list-style-type: none"> • Natural Disasters- Meaning and nature of natural disasters, their types and effects • Hydrological Disasters - Flood, Flash flood, Drought, cloud burst • Geological Disasters- Earthquakes, Tsunamis, Landslides, Avalanches, Volcanic eruptions, Mudflow 	Week 4-5-	Types of Natural Disasters
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	<ul style="list-style-type: none"> • Wind related- Cyclone, Storm, Storm surge, Tidal waves, Heat and cold Waves • Climatic Change • Global warming • Sea Level rise • Ozone Depletion
Week 6	Man – made Disasters <ul style="list-style-type: none"> • CBRN – Chemical disasters, biological disasters, radiological disasters, nuclear disasters • Fire – building fire, coal fire, forest fire, Oil fire
Week 7	Types of Man – made Disasters <ul style="list-style-type: none"> • Accidents- road accidents, rail accidents, air accidents, sea accidents • Pollution - air pollution, water pollution • Deforestation, Industrial waste
Week 8	Disaster Determinants <ul style="list-style-type: none"> • Factors affecting damage – types, social status, habitation pattern, physiology and climate • Factors affecting mitigation measures, prediction, preparation, communication, area and accessibility, population, physiology and climate
Week 9	Mid-Term Exam
Week 10-11	Social Work Approach to Disaster Management <ul style="list-style-type: none"> • CBDRM (Community Based Disaster Risk Reduction and Management), PCRA (Participatory Community Disaster Risk Assessment) • Social Work, Micro-Mizzo-Macro Level • Community Mobilization • Rehabilitation and Reconstruction
Week 12-13	Advanced Technologies for Warning System in Disaster Management <ul style="list-style-type: none"> • Definition of Early Warning System, Community Early Warning System, Core Components of People centered Early Warning System • Emergency Communication System, Wireless Communication, Bluetooth Wireless Technology, HAM Radio, GPS Application in Emergency Communication • Remote Sensing and GIS Application in Warning System
Week 14	Risk Assessment and Vulnerability Analysis <ul style="list-style-type: none"> • Risk Concepts, Elements Of Risk, Perception of Risk, Acceptable risk, Requirements in Risk assessment • Risk Reduction-Mainstreaming “Risk” • Role of science and technology in Disaster Risk Reduction • Strategies of Risk reduction, International Mobilization of Risk reduction

			<ul style="list-style-type: none"> • Risk analysis techniques; Process of Risk assessment, Analytical systems for risk assessment, Natural hazard/ risk assessment, Understanding climate risk, Mapping of risk assessment, Decision making for risk reduction, Problems in risk assessment • Participatory risk assessment - Rationale for people's participation, Role of civil society organizations, Impact of Globalization, Activities and roles for the community action Risk reduction, Participatory risk assessment methods
	Week 15	<p>Vulnerability</p> <ul style="list-style-type: none"> • Observation and perception of vulnerability- Vulnerability Identification, Vulnerability types and dimensions, Vulnerability- Social factors and economic factors • Vulnerability to shanty settlements; Vulnerability in the city, Risk in Urban areas, Issues in urban planning, Initiatives for risk reduction in Pakistan <p>Strategic development for Vulnerability reduction</p> <ul style="list-style-type: none"> • Physical & Social infrastructure for Vulnerability reduction • Interactive areas for Vulnerability reduction & Policy making • Hazard resistant designs and construction • Systematic management and Strategic planning for vulnerability reduction <p>Disaster Preparedness and Response Planning</p> <ul style="list-style-type: none"> • Disaster Preparedness • Disaster Preparedness: concept and significance • Disaster Preparedness Measures • Institutional Mechanism for Disaster Preparedness • Disaster preparedness with special needs/ vulnerable groups • Disaster Preparedness: Policy and Programmes <p>Disaster Preparedness Plan</p> <ul style="list-style-type: none"> • Concept and Significance of Disaster Preparedness Plan • Disaster Preparedness Plan essentials • Community Based Disaster Preparedness plan • Prediction, Early Warnings and Safety Measures of Disaster <p>Role of Different Organizations / Institutions</p> <ul style="list-style-type: none"> • Role of Information, Education, Communication, and Training • Role of Government, International and NGO Bodies • Role of Information Technology (IT) in Disaster Preparedness • Role of Geographers on Disaster Management • Role of Social Workers in Disaster Management 	
	Week 16	<p>Disaster Response</p> <ul style="list-style-type: none"> • Essential Components of Disaster Response, Disaster Response Plan, Resource Management- Financial, Medical, equipment, communication, Human, transportation, Food and essential commodity (Identification, Procuring, Propositioning and deployment), Directing and controlling 	

			<p>functions</p> <ul style="list-style-type: none"> • Communication, Participation & activation of Emergency Preparedness Plan, Logistics Management, Emergency support functions, Need and damage assessment • Coordination in Disaster Response • Disaster Response Plan - Communication, Participation, and Activation of Emergency Preparedness Plan • Search, Rescue, Evacuation and Logistic Management <p>Rehabilitation, Reconstruction and Development</p> <ul style="list-style-type: none"> • Rehabilitation, Reconstruction and Development-Concept, Meaning, Types of Rehabilitation and Reconstruction • Importance of Disaster Mitigation, Cost – benefit analysis, relationship between vulnerability and development • Damage Assessment- Post Disaster Damage assessment, estimated damage assessment due to probable disasters • Sample Surveys, Epidemiological Surveillance, Nutrition Centered Health Assessment, Remote sensing and Aerial photography, nature and damage to houses and infrastructure due to different disasters
	<p>Week 17</p>		<p>Role of Different Organizations in Rehabilitation & Reconstruction</p> <ul style="list-style-type: none"> • The Government and Disaster Recovery and rehabilitation • Disaster and Non-Governmental efforts • Role of Local Institutions; Insurance, Police, Media • Speedy Reconstructions- Essential services, Social infrastructures, Immediate shelters/camps, Contingency plans for reconstructions • Development of Physical and Economic Infrastructure- Developing Physical and Economic Infrastructure, Environmental Infrastructure development • Rehabilitation - Socio- economic Rehabilitation- Temporary Livelihood Options and Socio-Economic Rehabilitation • Education and awareness and role of Information Dissemination, Participative Rehabilitation • Role of various agencies in Recovery Work- Monitoring and Evaluation of rehabilitation work, Rehabilitation process <p>Reporting, Information and Documentation in Disasters</p> <ul style="list-style-type: none"> • Types of Media • Importance of role of media – informative, suggestive and analytical • Role of Media in Disaster Mitigation • Factual and Ethical Reporting • Impact of Media Coverage and Public Communication and Handling of Media

		<ul style="list-style-type: none"> Principles of Report Writing and Guidelines according to style manuals Writing and Presentation of Preliminary, Main body and Reference section of Report, Evaluation of Research Report
	Week 18	Final Term Exam
9.	Outcome	The course will play an important role in producing qualified, skilled and high-quality professionals; enable the students to work with a holistic approach 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 programmes.
10.	Recommended Books / Reference	<p>Blaikie, P. M., Wisner, B., & Cannon, T. (2014). <i>At Risk: Natural Hazards, People's Vulnerability and Disasters</i>. Florence: Taylor and Francis.</p> <p>Bobrowsky, P. T. (2013). <i>Encyclopedia of natural hazards</i>. Dordrecht: New York: Springer.</p> <p>Collins, L. R. (2000). <i>Disaster management and preparedness</i>. USA: CRC Press.</p> <p>Coppola, D. P. (2006). <i>Introduction to international disaster management</i>. London: Elsevier.</p> <p>Currión, P., Silva, C. D., & Van de Walle, B. (2007). Open source software for disaster management. <i>Communications of the ACM</i>, 50(3), 61-65.</p> <p>Emerald, G. P., & Emerald Group Publishing. (2004). <i>Disaster Management</i>. Bingley: Emerald Group Publishing.</p> <p>Etkin, D., & In Haque, C. E. (2012). <i>Disaster risk and vulnerability: Mitigation through mobilizing communities and partnerships</i>. Montreal: McGill-Queen's University Press.</p> <p>Naudé, W. A., Santos, P. A. U., & McGillivray, M. (2009). <i>Vulnerability in developing countries</i>. Tokyo: United Nations University Press.</p> <p>O'Brien, G., O'Keefe, P., Rose, J., & Wisner, B. (2006). Climate change and disaster management. <i>Disasters</i>, 30(1), 64-80.</p> <p>Shaw, R. (2012). <i>Community-based disaster risk reduction</i>. Bingley England: Emerald Group Pub. Ltd.</p> <p>Shroder, J. F. (2014). <i>Hazards, risks, and disasters in society</i>. London: Elsevier.</p> <p>Spaliviero, M., Dapper, M. D., Mannaerts, C., & Yachan, A. (2011). Participatory</p>

		<p>approach for integrated basin planning with focus on disaster risk reduction: the case of the Limpopo river. <i>Water</i>, 3(3), 737-763.</p> <p>Spencer, J. (2007). <i>Measure Evaluation Global Positioning System Toolkit</i>. New York: USAID.</p> <p>Tingsanchali, T. (2012). Urban flood disaster management. <i>Procedia engineering</i>, 32, 25-37.</p> <p>World Bank, United Nations (2010). <i>Natural hazards, UnNatural disasters: The economics of effective prevention</i>. Washington : World Bank.</p>
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Assessment Criteria

Requirements	
Assignments/Quizzes/Project/Group Presentations	
Mid-Term Exam	
Final Term Exam	