



Field Work Course for Identification of Disaster Vulnerabilities and Preparation of Disaster Management Plans

Objectives of The Course:

Major object of this course is to develop necessary skills to the students in preparing Disaster Management Plans after Identification of Disaster Risk Vulnerability in selected field areas. Students will conduct field survey for 15 days in any selected area. After field observations, field data collection and participatory discussion with community, local authorities and administrators a detailed project report on Disaster Management Plan of the area will be prepared.

Learning Outcomes of the Course

- Understanding and knowledge about the disaster vulnerabilities in the field study area.
- Understanding of assessing exposure, sensitivity and adaptive coping mechanism of the community dwelling in the areas.
- Developing skills of preparation of Disaster Management Plans in view of the existing disaster vulnerabilities.

Course Outline – Sections

UNIT-I

- Introduction and Concepts of Hazard and Disaster Risk Vulnerability Assessment Mapping.
- Sectors of Identifying Hazard and Disaster Risk Vulnerability- Agriculture, Bio-Diversity and Environment, Coastal and Marine Environment, Urban Environment,
- Infrastructure in Urban Environment – Housing, Street to House alignments, drainage, Water Supply and Others
- Assessing Community and Local Government exposure, sensitivity and adaptive capacity towards the hazard and disaster indicators

UNIT-II

- Activities- Preparation of field visit plan ^[1]_[SEP]
- Application of Spatial tool for preparation of Maps of the areas
- Identification of ^[1]_[SEP] Disaster Prone sectors in the selected field area based on secondary sources of information
- Validation and interpretation of satellite data in the field ^[1]_[SEP]
- GPS field data collection and mapping
- Preparation of Field Morphology ^[1]_[SEP]

UNIT-III

- Preparation of Questionnaire and other tools of investigation and research
- Introduction to field observation methods, survey methods
- Use of statistical techniques for preparation of tables and data analysis

- Report writing techniques – Statement of Problem, Conceptual Framework, Objectives, Research Questions, Literature review and Survey.

UNIT-IV

- Field Survey
- Field Observation and Data Collection from the field
- Report Writing

Suggested Readings:

- Mapping Vulnerability: 2013, "Disasters, Development and People", Greg ankoff, Georg Frerks –
- NOAA Coastal Services Center, “Linking People Information and Technology,: “Risk and Vulnerability Assessment Tool”- [L] [SEP]
- Measuring Vulnerability to Natural Hazards: towards disaster ..., irkmann - 2 - [L] [SEP]
- Disaster Risk and Vulnerability: Mitigation Through ...,David Etkin, Chowdhury Emdadul [L] [SEP] Haque – 2012. [L] [SEP]
- Handbook of Disaster Research, avidan Rodrigue , Enrico L. 2007
- Methods of Disaster Research, Robert A. Stallings – 2003 ☞ The Field Guide to Geology, David Lambert – 2007
- Disaster and Development, Andrew E. Collins – 2009
- The Field Guide to Geology, David Lambert – 2007
- Disaster Risk Reduction in South Asia, Pardeep Sahni, Madhavi Malalgoda Ariyabandu - 2003 [L] [SEP]
- Community-Based Disaster Risk Reduction, Rajib Shaw - 2012 [L] [SEP]
- Natural Disaster Risk Management and Financing Disaster ..., Reinhard Mechler – 2004. [L] [SEP]
- Disaster Risk Management Systems Analysis: A Guide Book, Stephan Baas – 2008. [L] [SEP]
- Basic Statistics,B L Agarwal – 2006 [L] [SEP] ☞ Fundamental Statistics for the Behavioral Sciences, David Howell – 2010