

Asian Institute of Technology
School of Environment, Resources and Development (SERD) and
School of Engineering and Technology (SET)
Disaster Preparedness, Mitigation and Management (DPMM)

**IN84.04 Community Based Disaster Risk Reduction and Management –
Theory and Practice 3 (2-3)**

Semester: January

Course Objective:

The objective of this course is to develop the student skills and knowledge on the disaster risk reduction process for the communities at the local level. The course will also provide knowledge to understand the importance of community participation in the disaster risk reduction and management process. The course covers aspects as diverse as stakeholder analysis, vulnerability and resource assessment, participatory approaches in Community Based Disaster Risk Reduction (CBDRR), risk reduction implementation, advocacy and challenges faced.

Learning Outcomes:

Upon successful completion of this course, the students will be able to:

- Apply the principles and concepts of community based approaches of disaster risk management
- Identify the major issues and concerns of the community-at-risk
- Apply tools and techniques of Disaster Risk Assessment
- Evaluate the strategies and frameworks for community based disaster risk reduction

Prerequisite: None

Course Outline:

I. Theory, Concepts and Approaches

1. Fundamental Features, Elements and Processes
2. Concepts and Approaches
3. Regional and International perspectives
4. Concepts of Social capital

II. Participatory Approaches to Disaster Risk Assessment and DRR Planning

1. Community Training
2. Tools and Techniques for Participatory Approaches
3. Community Risk Reduction Plan
4. Participatory Monitoring and Evaluation

III. Disaster Risk Assessment at the Community Level

1. Community based Hazard and Natural Disaster Risk Assessment
2. Capacity and Vulnerability Assessment
3. Analysis of Stakeholders and Resources
4. Social Accountability and Commitment of CBDRR Practitioners

IV. Community Resilience and Disaster Risk Reduction

1. Disaster Risk Reduction Measures
2. Community Early Warning System
3. Strengthening Livelihoods through Resilience
4. Disaster Education and Community Awareness

5. Ecosystem Approach for Community resilience

Laboratory Sessions (Field based practicum):

1. Selection of Study Area (District / Tambon)
2. Developing Framework for Hazard, risk and vulnerability assessment
3. Assessing data needs (Primary and Secondary) and identification of stakeholders
4. Preparation of checklists and short questionnaire for field survey
5. Field visit, survey and data acquisition
6. Analysis and report

Learning Resources:

Textbooks: No designated textbook, but class notes and handouts will be provided

Reference Books:

1. Ben Wisner, Piers Blaikie, Terry Cannon and Ian Davis (2003), *At Risk: Natural Hazards, People's Vulnerability and Disasters*, Routledge, Taylor and Francis, USA.
2. Gilbert F. White (1974), *Natural Hazards: Local, National, Global*, Oxford University Press, New York.
3. Kamal Taori (2005), *Disaster Management through Panchayati Raj*, Concept Publishing Company, India.

Journals and Magazines:

1. *Disaster Management and Response*, Emergency Nurses Association
2. *Disaster Prevention and Management*, Emerald.
3. *Disaster, The Journal of Disaster Studies, Policy and Management*, Blackwell
4. *Global Journal of Human Social Science*, Global Journals Inc.
5. *International Journal of Disaster Resilience in the Built Environment*, Emerald.
6. *International Journal of Mass Emergencies and Disaster*, International Research Committee on Disasters International Sociological Association
7. *Journal of Contingency and Crisis Management*, Wiley

Others:

1. ISDR case studies including: *Building Disaster Resilient Communities (Good Practices and Lessons Learned)* (2007), International Strategy for Disaster Reduction, Geneva.
2. *Community-Based Disaster Risk Management (Community-Based Disaster Risk Management and the Media (ADPC). Critical Guidelines)* (2006), Asian Disaster Preparedness Centre, Bangkok.: CBDRM (ADPC).
3. Imelda Abarquez and Zubair Murshed (2004), *Community Based Disaster Risk Management (Field Practitioners Handbook)*, Asian Disaster Preparedness Centre, Bangkok.
4. Iqbal Haider Butt (2006), *Guidebook on advocacy: Integrating CBDRM into government policy and programming*, Asian Disaster Preparedness Centre, Bangkok.
5. *Proceedings: The Fifth Disaster Management Practitioners' Workshop for Southeast Asia (Sustaining Partnerships: Meeting the Challenges of Scaling-up CBDRM Programs)* (2008), Asian Disaster Preparedness Centre, Bangkok.
6. Shesh Kanta Kafle and Zubair Murshed (2006), *Community-Based Disaster Risk Management for Local Authorities*, Asian Disaster Preparedness Centre, Bangkok.
7. *Third Disaster Management Practitioners' Workshop for Southeast Asia-Institutionalizing Community Based Disaster Risk Management in Government Policy Making, Planning and Program Activities* (2004), Asian Disaster Preparedness Centre, Bangkok.
8. Vicky Puzon-Diopenes and Zubair Murshed (2006), *Community-Based Disaster Risk Management and the Media*, Asian Disaster Preparedness Centre, Bangkok.

Teaching and Learning Methods:

Class room lectures, Assignment, Class Exercises, Field Visit, Field Based Practicum (Report, Presentation and Discussions)

Time Distribution and Study Load:

- Lectures: 30 hours
- Field Visit and Field Based Practicum: 45 hours
- Self-study: 135 hours
- Assignments, presentations and group activities: 18 hours

Evaluation Scheme:

Mid-semester examination: 30%

Final examination: 20%

Assignment: 10%

Field Based Practicum: 40%

Both Mid-semester and Final examinations will be closed book.

Grade "A" will be awarded if a student can demonstrate thorough knowledge and mastery of concepts and techniques and understanding of subject matter with high degree of skill to relate them with real world situations, Grade "B" will be awarded if a student can demonstrate good knowledge and understanding of subject matter with good skill of relating them with real cases. Grade "C" will be given if a student can demonstrate some knowledge of the concepts and understanding but lacks skill of relating them with real world cases. Grade "D" will be given if a student has poor understanding of concepts and techniques with no or little skill to relate with real world cases. Grade "F" will be given if student demonstrates very poor and limited knowledge and understanding of concepts and lacks the skill to relate with real world cases.

Instructor(s): Dr. Indrajit Pal