

**International Training Course on
“Natural Disasters Management”
Faculty of Environment and Resource Studies
Mahidol University, Thailand
4 - 24 June, 2025**

1. Course Title:

Natural Disasters Management

2. Duration

4 - 24 June, 2025 – (21 days)

3. Background and Rational

Currently, there are plenty of natural disasters phenomena in our earth. The recent ones that cause devastating damages are earthquake, tsunami, heavy rain, floods, landslides and sinking holes in our earth within many years ago. As our lives related to and reflected by the environment surrounded, one main cause of natural disasters occur by our activities in daily life, and the disasters attack us. Accordingly, natural disaster management is very important to our society, people living in risk area should be warned and in damaged areas need to be mitigated, relief their mind, rehabilitate their environment and promote appropriate occupations for living.

Therefore, the Faculty of Environment and Resource Studies intends to organize a training program in natural disaster management focusing on the occurrence and risk area of earthquake, tsunami, floods, landslides and sinking holes with management before and after the phenomena. The objectives are to develop knowledge about how natural disaster management is best conducted in areas of relevance of natural disaster academy. The capacity to manage and to prevent natural disasters depends on a large extent on effective collaboration and coordination between government and other sectors, which in turn require effective communication among them. Another focus is on community-based natural disaster management and holistic livelihood patterns aimed at building up capacity to manage and/or prevent natural disasters sustainability in the long term including the knowledge, experiences and skills concerned with environmental and resource preservation. Community motivation and mobilization will be discussed to ensure continued community ownership and responsibility for natural disasters proofing and preparedness activities.

4. Objectives

- 4.1 To develop people who have basic knowledge concerning about natural disaster risks and management
- 4.2 To improve the effectiveness of natural disaster risk management
- 4.3 To develop an important movement of natural disaster preparedness and awareness

5. Course Contents

5.1 Course Outline

- 1) General: An overview of natural disaster occurrence and management in Thailand
- 2) Climatologic Disaster: Drought: Occurrence and management
- 3) Climatologic Disaster: Storm and Heavy Rain: occurrence, risk and self-protection
- 4) Climatologic Disaster: Flood: occurrence, risk and self-protection and management
- 5) Climatologic Disaster: Landslide: occurrence, risk and self-protection
- 6) Geologic Disaster: Earthquake: occurrence, risk and self-protection

- 7) Geologic Disaster: Tsunami: occurrence, risk and self-protection
- 8) Geologic Disaster: Subsidence and sinkhole: occurrence, risk and self-protection
- 9) Geologic Disaster: Coastal Erosion Occurrence and management
- 10) Technology: LIDAR technology for management
- 11) Management: Lesson learned on disaster management
- 12) Management: Prevent loss of life and damage to critical infrastructure
- 13) Management: Mr. Awareness “a volunteer in a local area”
- 14) Management: Community-based natural disaster management
- 15) Management: A new Disaster Management agenda
- 16) Management: Incidence Command System (ICS)
- 17) Management: Social network for warning disaster
- 18) Management: Urban risk-disaster management
- 19) International Managements: Hyoko Frameworks Risk Reduction

5.2 Workshop/Practices

- 1) Case studies on natural disaster management
- 2) Practices on natural disaster preparedness and awareness, communication for natural disaster crisis

5.3 Study Trips/Field Trips

- 1) One-day field trip in the topic of “Earthquake, Flood and Landslide: Management and Mitigation”
- 2) Two-day field trip in the topic of “Environmental Management for Natural Disaster Reduction”

5.4 Advance Assignments

- 1) Country Report:

1.1 General information of participant (1 page of A4 size paper) including; Name of participant, Educational background, Country, Name of Organization, Participant’s position, Duties and responsibilities (Briefly)

1.2 General information of the Country (1-2 page of A4 size paper) including; Geographical status of the country, Climate, Population, Official language, Social, Educational and Economic conditions, Gross National Products (GNP), Per- capita Income, Major import and export goods, Natural resources and environmental situation, etc.

1.3 Content (up to 4-5 pages of A4 size paper): The detail in your country report should cover with the following topics.

- The current situation on natural disasters occurrence and natural disasters management in your country.
- Country policy related to natural disasters management and environmental management for natural disaster reduction.
- The best practices related to natural disaster preparedness and awareness, communication for natural disaster crisis.
- Lessons learned about natural disaster.

1.4 Summary and Recommendation (1 page of A4 size paper)

1.5 References and further information (If any) (1 page of A4 size paper)

1.6 Submission date: **No later than 15 May, 2025**

6. Number of Participants

6.1 Total Number of Participants: 20 persons

6.2 Participant Criteria:

- Age: Less than 40 years old
- Work experience in related fields: More than 2 years
- Knowledge Worker Positions in Practitioner Level or Junior
- Education: Equivalent to Bachelor Degree or Higher Degree
- Language: Good Command in English

7. Venue

- Faculty of Environment and Resource Studies, Mahidol University
- Accommodation:
 - Hotel at Salaya.
 - Hotel at the field site for 1 night

8. Expected Results

Expected key results or knowledge is available for participants after completing training:

- Basic knowledge in natural disaster management
- Meaningful information about current issue of natural disaster preparedness, awareness and reduction
- Better understanding in further application by practical session and excursions

9. Evaluation

- No paper examination after completing this training
- Participant must attend the class no less than 80% of total training period

10. Institution

10.1 Executing/Implementation Agency

- Implementation organization:
 - Faculty of Environment and Resource Studies, Mahidol University
- Staff availability:
 - 19 Lecturers will be involved in this training.
 - 30 Supporting staff will be in charge in this training.
- Training materials:
 - Hand-outs, documents and manual are available.
- Equipment:
 - Computers, printers, LCD, media equipment, laboratory equipment are available.
- Other facilities:
 - Phone, Fax, Internet hours are available
- Address:
 - 999 Phuttamonthon 4 Rd., Salaya, Phuttamonthon, Nakhon Pathom 73170, Thailand
- Course Leader:
 - Dean of Faculty of Environment and Resource Studies
- Course Director:
 - Assoc. Prof. Dr. Thamarat Phutthai

- Contact Person:
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11. Expenditure and Funding

11.1 Sponsored by:

Thailand International Cooperation Agency (TICA)

11.2 Estimated Cost: Operational cost only

Number of trainees: 20 persons

Course duration excluding arrival and departure days: 21 days

12. (Draft) Schedule

Wednesday 4 June, 2025		
Time	Activities	
13:00 – 14:00	Registration	
14:00 – 15:00	Opening ceremony <input checked="" type="checkbox"/> Audio visual presentation: Faculty of Environment and Resource Studies <input checked="" type="checkbox"/> Welcoming speech by Dean of the Faculty of Environment and Resource Studies <input checked="" type="checkbox"/> Introduction to the training program by Course Director <input checked="" type="checkbox"/> Introduction to academic and supporting staff <input checked="" type="checkbox"/> Participants introduce themselves	
15:00 – 15:15	<input checked="" type="checkbox"/> Group photo	
15:15 – 16:15	Refreshment	
16:45 – 18:45	Salaya campus tour and open house Welcoming Dinner	
Thursday 5 June, 2025		
Time	Topic	Instructor
09:00 – 12:00	Topic 1: General: An overview of natural disaster occurrence and management in Thailand	Mahidol University
12:00 – 13:00	Lunch	
13:00 – 16:00	Topic 2: Climatologic Disaster: Storm and Heavy Rain: occurrence, risk and self-protection	The Meteorological Department
Friday 6 June, 2025		
09:00 – 12:00	Topic 3: Climatologic Disaster: Drought: Occurrence and management	The Meteorological Department
12:00 – 13:00	Lunch	

13:00 – 16:00	Topic 4: Management: Lesson learned on disaster management	Royal Irrigation Department
Saturday 7 June, 2025		
☒ Social and Cultural Activities: <i>Rattanakosin Island - Bangkok</i>		
Sunday 8 June, 2025		
☒ Social and Cultural Activities: <i>1) Chatuchak Weekend Market 2) Samyan Mitrtown - Bangkok</i>		
Monday 9 June, 2025		
09:00 – 12:00	Topic 5: Climatologic Disaster: Landslide: occurrence, risk and self-protection	Department of Mineral Resources
12:00 – 13:00	Lunch	
13:00 – 16:00	Topic 6: Geologic Disaster: Tsunami: occurrence, risk and self-protection	Department of Mineral Resources
Tuesday 10 June, 2025		
09:00 – 12:00	Topic 7: Geologic Disaster: Earthquake: occurrence, risk and self-protection	Chulalongkorn University
12:00 – 13:00	Lunch	
13:00 – 14:30	Topic 8: Geologic Disaster: Subsidence and sinkhole: occurrence, risk and self-protection	Department of Mineral Resources
14:30 – 16:00	Topic 9: Technology: LIDAR technology for management	GIS Co., Ltd.
Wednesday 11 June, 2025		
09:00 – 12:00	Topic 10: Geologic Disaster: Coastal Erosion Occurrence and management	Department of Mineral Resources
12:00 – 13:00	Lunch	
13:00 – 16:00	Topic 11: Climatologic Disaster: Flood: occurrence, risk and self-protection and management	Royal Irrigation Department
Thursday 12 June, 2025		
07:30 – 17:30	Field Trip 1: One-day field trip: Earthquake Flood and Landslide: 1) Meteorological Department and 2) Department of Disaster Prevention and Mitigation, Bangkok	MU and visited Office Staff
Friday 13 June, 2025		
09:00 – 12:00	Topic 12: Management: Community-based natural disaster management	Mahidol University
12:00 – 13:00	Lunch	

13:00 – 16:00	Topic 13: Management: Knowledge management in community for natural disaster preparedness and awareness and communication for natural disaster crisis and Mr. Awareness “a volunteer in a local area”	Mahidol University
Saturday 14 June, 2025		
☒ Social and Cultural Activities: <i>MBK/ Pratumam/ Platinum Fashion Mall - Bangkok</i>		
Sunday 15 June, 2025		
☒ Social and Cultural Activities: <i>1) Mae Klong Railway Market (Hoop Rom Market) (Unseen Thailand) 2) Amphawa Floating Market - Samut Songkhram province</i>		
Monday 16 June, 2025		
09:00 – 12:00	Topic 14: Management: Incidence Command System (ICS)	Department of Disaster Prevention and Mitigation
12:00 – 13:00	Lunch	
13:00 - 16:00	Topic 15: Management: A new Disaster Management agenda	Department of Disaster Prevention and Mitigation
Tuesday 17 June, 2025		
09:00 – 12:00	Topic 16: Management: Prevent loss of life and damage to critical infrastructure	Royal Irrigation Department
12:00 – 13:00	Lunch	
13:00 – 16:00	Topic 17: Management: Social network for warning disaster	National Electronics and Computer Technology Center
Wednesday 18 June, 2025		
09:00 – 12:00	Topic 18: Management: Urban risk-disaster management	Bangkok Fire and Rescue Department
12:00 – 13:00	Lunch	
13:00 – 16:00	Topic 19: International Managements: Hyogo framework for disaster risk reduction	Mahidol University
19-20 June, 2023		
07:30 -17:30	Field Trip 2: Two-day field trip (1 night): Environmental Management for Natural Disaster Reduction: 1) Baan Khun Samut Chin Community, Samut Prakan Province, 2) Space Inspirium and 3) THEOS Control and Receiving Station, Chonburi Provinces	MU Staff and local administration
Saturday 21 June, 2025		
☒ Social and Cultural Activities: <i>1) Ayutthaya Elephant Palace & Royal Kraal 2) Wat Mahathat - Phra Nakhon Si Ayutthaya province</i>		

Sunday 22 June, 2025		
☒ Social and Cultural Activities: 1) <i>Khao San Road</i> 2) <i>Chinatown - Bangkok</i>		
Monday 23 June, 2025		
09:00 – 12:00	Workshop: Field Trip Discussion	All Lecturers
12:00 – 13:00	Lunch	
13:00 – 16:00	Country Report Presentation 1	All Lecturers
Tuesday 24 June, 2025		
09:00 – 12:00	Country Report Presentation 2	All Lecturers
12:00 – 13:00	Lunch	
13:00 – 14:00	Course discussion and overall conclusion	All Lecturers and Staff
14:00 – 15:00	Closing Ceremony ☒ Report by Course Director, Faculty of Environment and Resource Studies ☒ Speech by Director of Thailand International Cooperation Agency (TICA) ☒ Certificate presentation and closing speech by the President of Mahidol University ☒ Group photo	All Lecturers and Staff

*** Please note that the schedule is subject to change.**