

Name of Institute: Indus Institute of Management Studies (IIMS)

Name of Faculty: Dr. Richa Verma

Course code: BC0405

Course name: Disaster Management

Pre-requisites: To gain knowledge in specified area

Credit points: 2 Credits

Offered Semester: IV

Course Lecturer (weeks 01 - 15)

Full name: Dr. Richa Verma

Department with siting location: Management

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Consultation times: 4.00 PM to 5.00 PM

Students will be contacted throughout the Session via Mail with important information relating to this Course.

Course Objectives

To acquaint the students with understanding about disasters, their types, trends, causes, and how to control them at national level.

Course Outcomes (CO)

On successful completion of this course students will be able to:

- C01-** Understanding of various aspects related to Disaster Management.
- C02-** Develop About the key concepts, definitions a key perspective of all types of Disaster Management.
- C03-** Understand the Hazards Emergency Management.
- C04-** Understand the Emergency/Disaster Management Cycle.
- C05-** Discuss the case studies related to natural and man-made disasters and analyse the impact of all.
- C06-** Discuss about the preventive measures that helps to government to take corrective actions.

Course Outline

UNIT I

Understanding Disasters

Understanding the Concepts and definitions of Disaster, Hazard, Vulnerability, Risk, Capacity – Disaster and Development, and disaster management.

UNIT II

Types, Trends, Causes, Consequences and Control of Disasters

Geological Disasters (earthquakes, landslides, tsunami, mining); Hydro-Meteorological Disasters (floods, cyclones, lightning, thunder-storms, hail storms, avalanches, droughts, cold and heat waves); Biological Disasters (epidemics, pest attacks, forest fire); Technological Disasters (chemical, industrial, radiological, nuclear) and

Man- made Disasters (building collapse, rural and urban fire, road and rail accidents, nuclear, radiological, chemicals and biological disasters);

Global Disaster Trends – Emerging Risks of Disasters – Climate Change and Urban Disasters

UNIT III

Disaster Management Cycle and Framework

Disaster Management Cycle & Framework, Paradigm shift in disaster management, Pre disaster risk assessment, Prevention and mitigation of disasters, preparedness for disaster evacuation. Disaster Communication: Search and rescue, emergency operation centre, application of scientific techniques for disaster management and mitigation.

UNIT IV

Disaster Management in India

Disaster Profile of India – Mega Disasters of India and Lessons Learnt, Disaster Management Act 2005, National Policy on Disaster Management, National

Guidelines and Plans on Disaster Management; Role of Government (local, state and national), Non-Government Organizations.

Method of delivery

Lectures, PPT, case studies, experiential exercises, Active Learning Techniques.

Study time

2 hours per week

CO-PO Mapping (PO: Program Outcomes)

PO1: Enhance Conceptual clarity & domain knowledge.

PO2: Create Awareness of Business Environment.

PO3: Develop Effective communication skills.

PO4: Build Analytical skills in Business.

PO5: Comprehend Ethical and Social Responsibility.

PO6: Build professional competence as per industry requirements.

| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 |
|-------------|-----|-----|-----|-----|-----|-----|
| CO 1 | 2 | 1 | – | – | 2 | – |
| CO 2 | – | – | 3 | 1 | 1 | 1 |
| CO 3 | 2 | – | 1 | – | 1 | – |
| CO 4 | – | 3 | – | – | 2 | 1 |
| CO 5 | – | 1 | 2 | – | – | 1 |
| CO 6 | – | – | 3 | 2 | – | – |

Blooms Taxonomy and Knowledge retention (For reference)

(Blooms taxonomy has been given for reference)

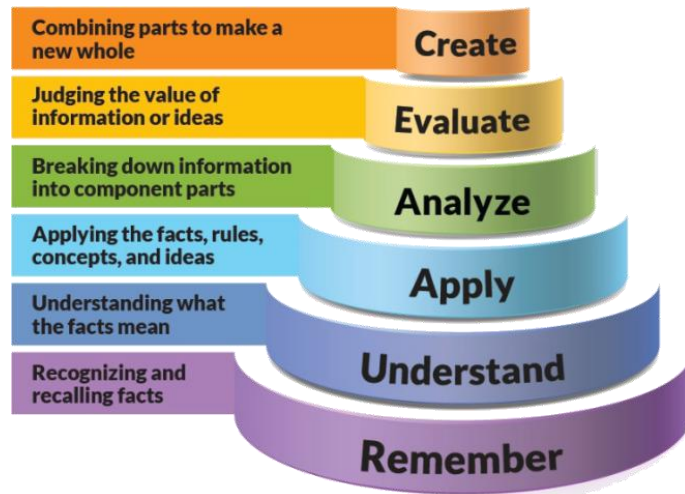


Figure 1: Blooms Taxonomy

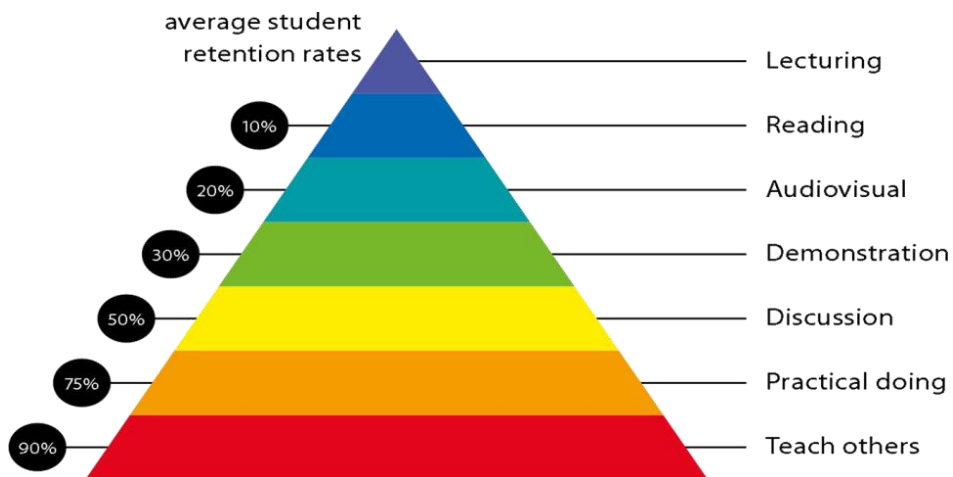


Figure 2: Knowledge retention

Graduate Qualities and Capabilities covered

(Qualities graduates harness crediting this Course)

| General Graduate Qualities | Specific Department of _____ Graduate Capabilities |
|---|---|
| <p>Informed</p> <p>Have a sound knowledge of an area of study or profession and understand its current issues, locally</p> | <p>1 Professional knowledge, grounding & awareness</p> |

| | |
|--|---|
| <p>and internationally. Know how to apply this knowledge. Understand how an area of study has developed and how it relates to other areas.</p> | |
| <p>Independent learners</p> <p>Engage with new ideas and ways of thinking and critically analyze issues. Seek to extend knowledge through ongoing research, enquiry and reflection. Find and evaluate information, using a variety of sources and technologies. Acknowledge the work and ideas of others.</p> | <p>2 Information literacy, gathering & processing</p> |
| <p>Problem solvers</p> <p>Take on challenges and opportunities. Apply creative, logical and critical thinking skills to respond effectively. Make and implement decisions. Be flexible, thorough, innovative and aim for high standards.</p> | <p>3 Problem solving skills</p> |
| <p>Effective communicators</p> <p>Articulate ideas and convey them effectively using a range of media. Work collaboratively and engage with people in different settings. Recognize how culture can shape communication.</p> | <p>4 Written communication</p> |
| | <p>5 Oral communication</p> |
| | <p>6 Teamwork</p> |
| <p>Responsible</p> <p>Understand how decisions can affect others and make ethically informed choices. Appreciate and respect diversity. Act with integrity as part of local, national, global and professional communities.</p> | <p>7 Sustainability, societal & environmental impact</p> |

Practical work:

1. ASSIGNMENT -1 Unit 1&2
2. ASSIGNMENT -2 Unit 3&4

Lecture times

09:00AM -09:55AM – Monday & Wednesday

Attendance Requirements

The University norms states that it is the responsibility of students to attend all lectures, tutorials, seminars and practical work as stipulated in the Course outline. Minimum attendance requirement as per university norms is compulsory for being eligible for mid and end semester examinations.

Details of referencing system to be used in written work

Text books

1. Coppola D P, 2007. Introduction to International Disaster Management, Elsevier Science (B/H), London.
2. Manual on natural disaster management in India, M C Gupta, NIDM, New Delhi
3. An overview on natural & man-made disasters and their reduction, R K Bhandani, CSIR, New Delhi

Reference Books:

1. Encyclopedia of disaster management, Vol I, II and III Disaster management policy and administration, S L Goyal, Deep & Deep, New Delhi, 2006.
2. Encyclopedia of Disasters – Environmental Catastrophes and Human Tragedies, Vol. 1 & 2, Angus M. Gunn, Greenwood Press, 2008.
3. Disasters in India Studies of grim reality, Anu Kapur & others, 2005, 283 pages, Rawat Publishers, Jaipur.
4. Management of Natural Disasters in developing countries, H.N. Srivastava & G.D. Gupta, Daya Publishers, Delhi, 2006, 201 pages
5. Natural Disasters, David Alexander, Kluwer Academic London, 1999, 632 pages.
6. Disaster Management Act 2005, Publisher by Govt. of India.
7. Publications of National Disaster Management Authority (NDMA) on Various Templates and Guidelines for Disaster Management.

ASSESSMENT GUIDELINES

Your final course mark will be calculated from the following:

| | |
|--|-----------------|
| Assignment | 10 Marks |
| Class Test | 5 Marks |
| Attendance | 5 Marks |
| Mid semester | 40 Marks |
| Final exam (<i>closed book</i>) | 40 Marks |

SUPPLEMENTARY ASSESSMENT

Students who receive an overall mark less than 40% in mid semester or end semester will be considered for supplementary assessment in the respective components (i.e mid semester or end semester) of semester concerned. Students must make themselves available during the supplementary examination period to take up the respective components (mid semester or end semester) and need to obtain the required minimum 40% marks to clear the concerned components.

Format

All assignments must be presented in a neat, legible format with all information sources correctly referenced. **Assignment material handed in throughout the session that is not neat and legible will not be marked and will be returned to the student.**

Retention of Written Work

Written assessment work will be retained by the Course coordinator/lecturer for two weeks after marking to be collected by the students.

University and Faculty Policies

Students should make themselves aware of the University and/or Faculty Policies regarding plagiarism, special consideration, supplementary examinations and other educational issues and student matters.

Plagiarism - Plagiarism is not acceptable and may result in the imposition of severe penalties. Plagiarism is the use of another person's work, or idea, as if it is his or her own - if you have any doubts at all on what constitutes plagiarism, please consult your Course coordinator or lecturer. Plagiarism will be penalized severely.

Course schedule(subject to change)

| Week # | Topic & contents | CO Addressed | Teaching Learning Activity (TLA) |
|---------|---|--------------|----------------------------------|
| Weeks 1 | Understanding the Concepts and definitions of Disaster | CO1 | Lecture |
| Weeks 2 | Hazard, Vulnerability, Risk, Capacity - Disaster and Development, and disaster management. | CO1 | Lecture |
| Week 3 | Geological Disasters (earthquakes, landslides, tsunami, mining); | CO2 | Lecture |
| Week 4 | Hydro-Meteorological Disasters (floods, cyclones, lightning, thunder-storms, hail storms, avalanches, droughts, cold and heat waves); | CO2 | Lecture |
| Week 5 | Biological Disasters (epidemics, pest attacks, forest fire); Technological Disasters (chemical, industrial, radiological, nuclear) banking (meaning, concepts, importance. heat waves); | CO3 | Lecture |

| | | | |
|---------|---|-----------|---------|
| Week 6 | Man- made Disasters (building collapse, rural and urban fire, road and rail accidents, nuclear, radiological, chemicals and biological disasters),Global Disaster Trends - Emerging Risks of Disasters - Climate Change and Urban Disasters | CO3 | Lecture |
| Week 7 | Disaster Management Cycle & Framework, Paradigm shift in disaster management | CO3 | Lecture |
| Week 8 | Pre disaster risk assessment, Prevention and mitigation of disasters. | CO4 | Lecture |
| Week 9 | Preparedness for disaster evacuation. Disaster Communication: Search and rescue | CO4 | Lecture |
| Week 10 | Presentation | | Lecture |
| Week 11 | Mid Term | | |
| Week 12 | Emergency operation centre, application of scientific techniques for disaster management and mitigation | CO4 | Lecture |
| Week 13 | Disaster Profile of India - Mega Disasters of India and Lessons Learnt, Disaster Management Act 2005, National Policy on Disaster Management | CO5 & CO6 | Lecture |
| Week 14 | National Guidelines and Plans on Disaster Management; Role of Government (local, state and national), Non-Government Organizations. | CO5 & CO6 | Lecture |
| Week 15 | Doubt solving & revision | | |