

### KU4SECPOL201: DISASTER MANAGEMENT

| Semester                        | Course Type           | Course Level | Course Code        |     | Credits | Total Hours             |
|---------------------------------|-----------------------|--------------|--------------------|-----|---------|-------------------------|
| 4                               | SEC                   | 200-299      | KU4SECPOL201       |     | 3       | 45                      |
| Learning Approach (Hours/ Week) |                       |              | Marks Distribution |     |         | Duration of ESE (Hours) |
| Lecture                         | Practical/ Internship | Tutorial     | CE                 | ESE | Total   |                         |
| 3                               | -                     | -            | 25                 | 50  | 75      | 1.5 Hrs                 |

#### Course Description:

The course Disaster Management aimed to inculcate awareness and perception of Disaster (environmental, technological, biological, man-made etc), Disaster Management, Mitigation of Disaster and preparing for, responding to, and recovering from disasters. It will implant the notion and the urgency of want of awareness and training in the field of Disaster Management among the students. Students can assess and achieve the Strategies and measures for individuals, communities, and organisations to respond effectively to disasters. Finally, this inclusive course will foster a wide-ranging understanding of disaster management principles, strategies and practices, enabling students to contribute effectively to disaster preparedness, response, and recovery efforts in their communities or organisations.

#### Course Prerequisite: NIL

#### Course Outcomes:

| CO No. | Expected Outcome                                                                                                                                                           | Learning Domains |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| 1      | Identify various kinds of disasters, and identification of risk and challenges accompanying with disasters.                                                                | An               |
| 2      | Assess and gage the impending effects of disasters on communities, infrastructure, and the environment.                                                                    | E                |
| 3      | Formulate emergency preparedness arrangements, involving starting communication outlets, evacuation techniques, and resource management strategies.                        | C                |
| 4      | Synthesize the skills and talents in coordinating and managing disasters and Develop skills to engage with local stakeholders, and supporting community-based initiatives. | E                |
| 5      | Infer to effectively prepare for, respond to, and recover from disasters, contributing to the overall resilience and well-being of communities and societies.              | E & C            |

*\*Remember (R), Understand (U), Apply (A), Analyse (An), Evaluate (E), Create (C)*

#### Mapping of Course Outcomes to PSOs

|      | PSO 1 | PSO 2 | PSO 3 | PSO 4 | PSO 5 | PSO 6 | PSO 7 |
|------|-------|-------|-------|-------|-------|-------|-------|
| CO 1 |       | ✓     | ✓     |       |       |       |       |
| CO 2 |       | ✓     | ✓     |       |       |       |       |
| CO 3 |       |       | ✓     | ✓     |       |       | ✓     |
| CO 4 |       |       | ✓     |       |       |       | ✓     |
| CO 5 |       |       | ✓     | ✓     |       |       | ✓     |

## COURSE CONTENTS

### Contents for Classroom Transaction:

| MODULE | UNIT                                          | DESCRIPTION                                          | HOURS |
|--------|-----------------------------------------------|------------------------------------------------------|-------|
| 1      | <b>DISASTER MANAGEMENT- INTRODUCTION</b>      |                                                      | 9     |
|        | 1                                             | Disaster – Meaning & Definition                      |       |
|        | 2                                             | Types: Geological, Biological and Man-Made Disasters |       |
|        | 3                                             | Natural Disasters in India                           |       |
|        | 4                                             | Man-Made Disasters in India                          |       |
| 2      | <b>DISASTER MANAGEMENT</b>                    |                                                      | 9     |
|        | 1                                             | Disaster Management: Meaning                         |       |
|        | 2                                             | Disaster Prevention                                  |       |
|        | 3                                             | Disaster Preparedness                                |       |
|        | 4                                             | Disaster Mitigation                                  |       |
| 3      | <b>NATIONAL DISASTER MANAGEMENT FRAMEWORK</b> |                                                      | 9     |
|        | 1                                             | The Disaster Management Act 2005                     |       |
|        | 2                                             | National Disaster Management Authority (NDMA)        |       |
|        | 3                                             | India Meteorological Department (IMD)                |       |
|        | 4                                             | Community Based Disaster Management (CBDM)           |       |
| 4      | <b>REHABILITATION</b>                         |                                                      | 9     |
|        | 1                                             | Concepts of Rehabilitation                           |       |
|        | 2                                             | Types of Rehabilitation                              |       |
|        | 3                                             | Resource Mobilisation                                |       |
|        | 4                                             | Civil Society Initiative for Relief                  |       |
| 5      | Teacher Specific Module                       |                                                      | 9     |

### Essential Readings:

1. Sharma S. C. (2022). *Disaster management*. 2<sup>nd</sup> Edition. New Delhi: Khanna Publishing.
2. Subramanian R. (2018). *Disaster Management*. New Delhi: Vikas Publishing House.
3. Pandey, Mrinalini (2023). *Disaster Management*. 2<sup>nd</sup> Edition. Wiley.
4. Savindra Singh, Jeetendra Singh (2016). *Disaster Management*, Allahabad: Pravalika Publications.
5. Mukta Girdhar (2019), *Natural Disasters*, New Delhi: Amy Publication.
6. Gupta, M.C., Vinod K. Sharma, L.C. Gupta, B.K. Tamani (Eds). (2001). *Manual on Natural Disaster Management in India*, National Centre for Disaster Management, New Delhi: IIPA.

**Suggested Readings:**

1. Carter, W. Nick, 1991, Disaster Management: A Disaster Manager's Handbook, Asian Development Bank, Manila
2. Kumar. P, Disaster Management -Second Edition, OakBridge Publishing Private Limited, 2023.
3. Lt. Col. (Dr.) Satish Dhage, GKP Disaster Management in India : Issues, Perspectives & Concerns for Civil Services Examinations (Preliminary & Mains) GK Publications,2024.
4. R. B. Singh, Natural Hazards and Disaster Management: Vulnerability and Mitigation, Rawat Publications,2006.
5. Brian Tomaszewski , Geographic Information Systems (GIS) for Disaster Management- CRC Press, 2014.
6. Talwar,Arun Kumar,Juneja and satish, Encyclopedia of Disaster management(10 volumes)-saujanya books, Delhi,2008.
7. Keith Smith, Environmental Hazards: Assessing Risk and Reducing Disaster. Routledge Publication,2004
8. Alexander David, Introduction in Confronting Catastrophe, Oxford University Press,2000.
9. Govt. of India: Disaster Management Act 2005, Government of India, New Delhi.
10. Bryant Edwards ,Natural Hazards, Cambridge University Press, U.K.2005

**Assessment Rubrics:**

| Evaluation Type         |                                                                                                  | Marks |
|-------------------------|--------------------------------------------------------------------------------------------------|-------|
| End Semester Evaluation |                                                                                                  | 50    |
| Continuous Evaluation   |                                                                                                  | 25    |
| a)                      | Test Paper- 1                                                                                    | 10    |
| b)                      | Test Paper-2/Quiz                                                                                | 5     |
| c)                      | Assignment/Seminar/Book/Article Review/Field Report/Viva Voce/ Group Discussion (Any of the two) | 10    |
| Total                   |                                                                                                  | 75    |