

Course Description

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

Understand research approaches in Disaster Management.

Apply various techniques for collection, analysis and interpretation of data.

Formulate a draft research proposal

COURSE OUTLINE

1. Introduction

- Elements of Research Methodology
- Types of Research
- Research Techniques in Disaster Management

2. Research Process

- Theory and Hypothesis
- Methods/Techniques of Data Collection and Analysis
- Questionnaire Design, Field Survey, Analysis, Interpretation
- Data Classification and Tabulation
- Sample, Sampling and sampling design

3. Statistical Techniques in Research

- Measures of Central Tendency
- Measures of Dispersion
- Computer Based Statistics (SPSS16/Minitab etc.)
- Geo-Spatial Statistical Techniques

4. Prepare a draft Research Proposal

- Elements of Research Proposal
- Review on Literature writing
- Methodology flow chart design
- Computer skills for proof reading

Teaching Methodology

- Lectures
- Research proposal
- Seminar
- lab work

Assessment Criteria:

1st Term (25%) Assignments/Quizzes and Presentations

Mid Term (35%) Written (Long Questions, Short Questions, MCQs)

Final Term (40%) Written (Long Questions, Short Questions, MCQs)

Textbooks:

1. BIRKMANN, J. (2006) Measuring Vulnerability to Natural Hazards: Towards Disaster Resilient Societies. Tokyo, United Nations University Press.
2. Enrico Louis Quadrantally, Havidan Rodriguez, Russell Rowe Dynes (2006). Handbook of Disaster Research. (2006). Germany: Springer New York.
3. Iftekhhar Ahmed, Indrajit Pal, Jason von Meding, Sangam Shrestha, Thayaparan Gajendran (2019). An Interdisciplinary Approach for Disaster Resilience and Sustainability. (2019). Germany: Springer Nature Singapore.
4. James Kendra, Scott G. Knowles, Tricia Wachtendorf (2019). Disaster Research and the Second Environmental Crisis: Assessing the Challenges Ahead. (2019). Germany: Springer International Publishing.
- 5.
6. CRESWELL, John W. (2009) Research Design: Qualitative, Quantitative, and Mixed Methods Approaches. Sage Publications
7. HOWARD, K. ef; Sharp, J.A. (1983) The Management of a Student Research Project. Gower Publishing Company, UK.
8. JOHN, W. Creswell (2009) Research Design: Qualitative, Quantitative, and Mixed Methods Approaches.
9. MARSHALL, Catherine; Rossman, Gretchen B. (2006) Designing Qualitative Research. Edition 4, Sage Publications, Los Angeles, US.
10. MAXWELL, Joseph A. (2005) Qualitative Research Design: An Interactive Approach. Edition 2, Sage Publications, Los Angeles, US.
11. MYERS, Jerome L. and Well, Arnold D. (2002) Research Design & Statistical Analysis. 2nd Edition, Routledge, London, UK