

DM 501 Fundamentals of Disaster Management (3-0-0-6)

Course Content

Disaster and risk and their relationship; Approaches to understand disaster phenomena, disaster risk and its associated parameters; Classification, characteristics, causes, and damage potentials of different natural hazards; Dimensions of vulnerability and examples of hazard specific vulnerability factors (structural and non-structural); Disaster trends (Global, national and regional); Methods of hazard, vulnerability and capacity assessment (HVCA); Scopes and criteria for disaster risk mitigation measures (prevention, mitigation and preparedness); Capacity building for disaster risk mitigation (structural and non-structural measures); Alternative adjustment processes for damage mitigation; Community based disaster risk reduction mechanism.

Text/ References

1. Porter, M., Jakob, M., and Savigny, K.W., **Geohazard Risk Management for Linear Facilities**, 310p, Springer, 2015.
2. Abbott, P.L., **Natural Disasters**, 9th Edition, McGraw Hill Education, 512p, 2013.
3. Nicholas, C., **Geohazards: Natural and Human**, Prentice Hall, 1994.