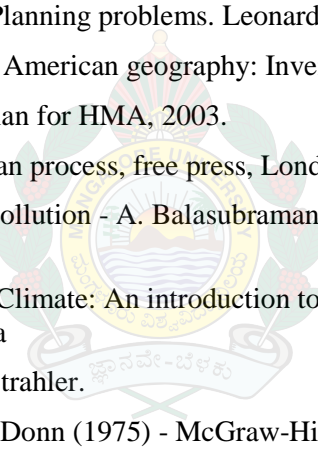


GIS 503: RS AND GIS IN URBAN PLANNING AND DISASTER MANAGEMENT		
GIS in Urban Planning		
Unit 1	Concepts: Urban, Urbanism, Urbanisation, Regional Concept and Types of Planning process, presentation and preparation Origin and Growth of Urbanisation in the World Urban Problems: Pollution, Slum, Housing, Social wellbeing.	6 hrs
Unit 2	Application of GIS, GPS and RS: in Urban and Regional Planning Research Methods in Urban and Regional Studies. Applications of RS and GIS in Socio-economic Information Analysis, Agricultural Information System –Land Holdings–Irrigation, Land Use, Land Reforms.	6 hrs
Unit 3	RS and GIS Applications: in Agriculture and Rural Development, Concept of Rural Development–Globalization and its impact on Agriculture and Rural Development. Types of agriculture, Livestock.	6 hrs
Unit 4	Application of RS and GIS: in rural problem solving situation–Village Information System and planning. Planning in India–Development policies (Five Year Plans) Geo-informatics for Precision Farming-Importance and relevance to Indian Agriculture.	6 hrs
GIS in Disaster Management		
Unit 5	Disaster Management: Concepts of disaster; Types of disaster Natural and manmade: Cyclone, flood, landslide, land subsidence, fire and earthquake. Issues and concern for various causes of disasters. Principles of Disaster Management, Natural Disasters, Hazards, Risks and Vulnerabilities.	6 hrs
Unit 6	Assessment of Disaster: Vulnerability of allocation and vulnerable groups. Preparedness and Mitigation measures for various Disasters. Preparation of Disaster Management Plans.	6 hrs
Unit 7	Issues in Environmental Health, Water & Sanitation, Earthquake Mitigation, Floods, Fire, Landslides and other natural calamities. Post Disaster Relief & Logistics Management.	6 hrs
Unit 8	Information systems & decision making tools. Role of Remote Sensing in Science & Technology. Rehabilitation Programmes. Voluntary Agencies & Community Participation at various stages of disaster management. Role of military and paramilitary forces during disaster. Emergency Support: Functions and their coordination mechanism. Resource and Material Management. Management of Relief Camp.	6 hrs

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