

Geographical Information System (GIS) – Course Outline

Introduction to GIS (Overview, History, Understanding geographical data); Components and functions of GIS; Coordinate systems and GPS (Geographic Coordinate Systems (GCS), Map projections, Global positioning system (GPS); Database Structure (Spatial data model, Attribute data model, source of data and its quality); Basics of Global information system software and its uses.

Application of GIS in wildlife ecology: Population viability analysis, home range analysis, Human-wildlife conflict analysis, wildlife conservation (population and distribution, habitat use and preparation, regional biodiversity conservation), wildlife management (Habitat requirement, population patches, progress of management activities, current wildlife densities and corridor design)