GIS – 867 Demographic Analysis and Modeling (3+0=3)

1. **Course Objectives:**
   a. The course will include hands-on opportunities to conduct applied demographic analysis and modeling. Students will apply demographic methods using real datasets such as population ageing, overpopulation, migration, population growth/decline, spatial and social unevenness in demographic processes.

2. **Course Outcomes:**
   a. Students will be able to use demographic data sources and demographic methods intelligently in a range of real-world applications.

3. **Course Code:**
   a. GIS – 867

4. **Credit Hours:**
   a. Theory = 03
   b. Practical = 00
   c. Total = 03

5. **Detailed Contents:**
   a. The Demographic Equation
   b. Demographic Data
   c. Fertility: Period and Cohort Approaches and Explaining fertility differences: a proximate determinants approach
   d. Mortality: Measuring Mortality and the Life Table
   e. Migration: measurement and associated issues
   f. Population Projections
   g. Population Projections
   h. Demographic Case Studies

6. **Textbooks/Reference Books:**
   a. Hinde, A. (1998) Demographic Methods. Arnold, London
   b. Holdsworth, C., Finney, N., Marshall, A. and Norman, P. (2013) Population and Society Sage
   c. Newell, C. (1994) Methods and Models in Demography Wiley
   d. Weeks, J.R. (1999) Population: An Introduction to Concepts and Issues Wadsworth, Belmont