Government College for Women, Mahendragarh, Haryana, 123029
Department Of Geography
Name of the Assistant Professor: Naveen Kumar

Class: M Sc. Pre. Semester II   Session: 2023—2024   (15-01-2024 to 30-04-2024)

Population Geography

Week 1 Definition, nature and scope. conceptual framework and historical development

Week 2 Source of data with particular reference India – census civil registration system sample registration system

Week 3 Population Distribution and Density,Factors and determinants of distribution and density ,

Week 4 population growth – its trends and determinants Theories of population Growth – Pre Malthusian views, Malthus theory , views of socialist,

Week 5 Over and optimum population and demographic transition model,

Week 6 Components of population change: determinants of fertility and mortality,

Week 7 trends and patterns in fertility and mortality levels in India,

Week 8 Migration: major international migrations, features of internal migration in India, theories of migration,

Week Population composition and characteristics - age and sex composition, literacy Marital status

Week 10 economic characteristics of population ,Population and development: population growth and economic development,

Week 11 Population Policies of India and China,

Week 12 Post independence development Reproductive and Child Health Programme

Week 13   Post independence development Reproductive and Child Health Programme

Week 14   Revision and class Tests

Government College For Women, Mahendragarh, Haryana, 123029
Department Of Geography
Name of The Assistant Professor: Naveen Kumar
Class: M Sc. Final. Semester IV   Session: 2023—2024 (15-01-2024 to 30-04-2024)
Application of Remote Sensing and G.I.S

Week 1 Land use change , urban land use planning, growth and monitoring

Week 2 Urban sprawl and municipal Application , cadastral mapping, ward level mapping,

Week 3 Utilities and services; solid waste management, urban information system.

Week 4 Hazards and risk mapping, disaster damage management, flood risk extent mapping,

Week 5 drought monitoring, forest and agriculture residue burring
Land slide vulnerability,

Week 6 Imp. of remote sensing in agriculture, double and triple crop mapping,

Week 7 agriculture production forecasting, Crop damage assessment.

Week 8 Watershed characterization, prioritization and management

Week 09 DEM, Source of data for dem, morphometic drainage network analysis

Week 10 Interpolations methods, run of estimation

Week 11 methods of estimating evaporation and soil moisture.

Week 12 water balance computation ,

Week 13   information about GIS softwares

Week 14   class test

Government College for Women, Mahendragarh, Haryana, 123029
Department Of Geography
Name of the Assistant Professor: Naveen Kumar
Class: B.A. Sem. VI   Remote sensing &GIS   Session: (15-01-2024 to 30-04-2024
Introduction to Remote Sensing, GIS & Quantitative Methods

Week 1 Introduction to Aerial Photographs: their advantages and types.

Week 2 Elements of aerial Photo interpretation

Week 3 Introduction to Remote Sensing; Electromagnetic spectrum, stages in remote sensing, type of satellites.

Week 4 Types of Imageries and their application in various fields such as agriculture

Week 5 environment and resource mapping.

Week 6 Introduction to Geographical Information System: Definition, purpose, advantages and software and hardware requirements.

Week 7 Application of GIS in various fields of geography..

Week 8 Measure of Central Tendency: Mean, Median and Mode.

Week 09 Measure of Dispersion: Range

Week 10 Quartile deviation and Mean deviation

Week 11 Standard deviation,

Week 12 Coefficient of variation.

Week 13 Repetition with Problem Solving, Tests & Assignments

Week 14 Repetition with Problem Solving, Tests & Assignments

Week 1 Distribution of Coal and Petroleum in India Distribution of Iron-ore and Bauxite in India

Week 2 Introduction to Computer System and M S Office Entering and Managing data using Spreadsheets

Week 3 Construction of isodapane using suitable data Analysis of sectoral contribution in Haryana/India

Week 4 Line graph (Single and Polygraph)Bar graph (Simple, Compound and Multiple)

Week 5 Distribution of cultivators, agricultural labours and other workers Population distribution map

Week 6 Pie Charts X, Y scatter plots Trend Line

Week 7 . Population density map, Age –sex structure of population Calculation of life Table Fertility, mortality and natural growth of population by polygraph

Week 8 Analysis of data using different statistical methods in Program.
4. Preparation and interpretation of Simple and multiple correlation regression matrix in SPSS

Week 9 Introduction to Data Analysis Program. Entering and Managing data in Program.

Week 10 Cartograms Accessibility maps Choropleth maps-

Week 11 monovariate and bivariate. Dot method

Week 12   finalizing Practical files