

GOG-CR-17103 Advanced Quantitative and Cartographic Techniques

Credit-I:

1. Correlation, types of correlation, Forms of relation and measuring the strength of association and relation. Construction and meaning of scatter Diagram, Karl Person's Coefficient of Correlation, Rank Correlation
2. Linear regression Analysis
3. Multiple correlation
4. Partial correlation coefficient
5. Multiple Regression
6. Coefficient of Determination

Credit-II:

1. Lorenz Curve and Gini's Coefficient
2. Location Quotient
3. Time series: Moving average, least square method and drawing of line of best fit, second degree equation
4. The exponential curve, Logistic curve
5. Interpolation
6. Sampling its types, t test, Z test, Chi Square test, Mann Whitney- U Test

Credit-III:

1. Cartographic methods and techniques for preparation of maps and diagrams, types and applications
2. Calculation of gradient and slope
3. Went worth's Method of average slope

Credit-IV:

1. Digital Mapping: Preparation of thematic maps
2. Analysis of Socio Economic data with the help of SPSS and presentation in Maps with the help of GIS
3. crop combination data (weaver's, Thomson's, and Rafiullah's, method) Socio-Economic data (Construction of composite index and mapping of Regional disparities). Livestock data , Hydrometeorological data in maps