

GOVT COLLEGE FOR GIRLS, MANDKOLA

LESSON PLAN – 2020-21

Name of the Assistant Professor: Vinod Kumar

Class and Section : B.A. 3rd (6th SEM.)

Subject : Introduction to Remote Sensing, GIS & Quantitative Methods

Week	Syllabus
First	Aerial Photographs:- introduction, Meaning and History Applications and advantages of Aerial photos Types of Aerial photos Geometry of Aerial photos Demarcation of Principal Elements on Aerial Photographs(Practical)
Second	Scale of Geometry of Aerial photos Methods of Geometry of Aerial photography Stereoscope and satellite imagery Demarcation of Principal Elements on Aerial Photographs(Practical) Unit Test
Third	Image interpretation :-Importance of Image interpretation Basic Principles and Factors Affecting Image interpretation Element of Image interpretation Scale of aerial Photographs(Practical)
Fourth	Basis of Image interpretation Methods of interpretation of Aerial Photographs Purpose and Benefits of Aerial photo interpretation Scale of aerial Photographs(Practical) Unit Test
Fifth	Remote Sensing:- Meaning and definition Fundamentals and stages of Remote Sensing Electromagnetic Spectrum Zones of Remote Sensing, Orbital paths of satellites Interpretation of single Vertical Photograph(Practical)
Sixth	Types of remote Sensing Satellite, Swath of satellite Sensors and Sensing Systems Remote Sensing in India Interpretation of single Vertical Photograph(Practical) Unit Test

Week	Syllabus
Seventh	Imageries :- Introduction and Definition Types and classification of Images Applications of Imageries Applications of Imageries in Forestry Use of Stereoscope in Aerial Photographs(Practical)
Eighth	Geographical Information System(G.I.S.): - Meaning and Definition Data base and source of data in G.I.S. Types of data in G.I.S., Spatial data Format Source of Activities of G.I.S. Use of Stereoscope in Aerial Photographs(Practical)
Ninth	Geo-Information Techniques Objectives of G.I.S., Planning and G.I.S. Element of G.I.S., Advantages of G.I.S. Unit Test
Tenth	Application of Geographical Information System :- Technological Development and G.I.S. G.I.S. and Categories of Consumers Development of Electricity Distribution System with help of G.I.S. Identification of features on IRS-ID Imagery(Practical)
Eleventh	Measures of Central Tendency:- Mean, Mode and Median Meaning and Definitions of Statistics Calculation of Data with the help of Statistical methods Identification of features on IRS-ID Imagery(Practical)
Twelfth	Objectives and Functions of Statistical Averages Types of Statistical Averages Arithmetic mean with different methods Socio-Economic Survey and Report Writing (Practical)
Thirteen	Measures of Dispersion:-Definition and various methods of Measuring Tendency. Range, Quartile deviation ,Mean deviation ,Standard Deviation Socio-Economic Survey and Report Writing (Practical)
Fourteen	Coefficient of Variation :- Calculation of Coefficient of Variation Unit Test

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