

**F.Y.B.Sc. (Geography)**

**Choice Based Credit System Syllabus**

**To be implemented from Academic Year 2019-2020**

**Semester I**

**Paper III: Practicals in Physical Geography**

**Course No. Gg. 113 No. of Credits:1.5**

**No. of Practicals:15**

Batch of 15 students each

<b>Unit No.</b>	<b>Unit</b>	<b>Sub Unit</b>	<b>No. of Practicals</b> (3 hours/Practical)
1.	Maps	a) Definition, Elements of maps (scale, direction, map projection, conventional signs and symbols, legend), Types of maps, Uses of maps	02
2.	Map Scales	a) Definition, Types- Verbal Scale (VS), Representative Fraction (RF), Graphical Scale b) Conversion of scale- VS into RF and RF into VS (Minimum 2 examples each), Exercise on simple graphical scale (Minimum 2 exercises) Reading distances on a map c)	03
3.	Map Projections	a) Definition of map projection b) Classification of map projection c) Construction and study of the following projections I. Zenithal projections- Zenithal polar gnomonic projection II. Conical projections- Simple conical projection with two standard parallels III. Cylindrical projections- Cylindrical equal area projection (Note:-construction of above map projections with properties and uses, for relevant group one example from each hemisphere) d) Choice of map projections	05
4.	Representation of data	Thematic Maps Symbol a) method b) Dot method c) Choropleth method d) Isopleth method e) Flow diagram (Representation and Interpretation of thematic maps)	03
5.	Field Visit	a) Reading of maps in the field b) Collection of data and its representation	02

**Reference books:**

- Dent B.D., 1999. Cartography: Thematic Map Design, (Vol. 1), McGraw Hill.
- Gupta K.K and Tyagi V.C., 1992. Working with Maps, Survey of India, DST, New Delhi.
- Mishra R.P. and Ramesh A., 1989. Fundamentals of Cartography, Concept Publishing.
- Monkhouse, F.J. and Wilkinson, H.R., 1971. Maps and Diagrams. Methuen and Co. Ltd., London. K.
- Singh, R.L., 2005. Elements of Practical Geography. Kalyani Publishers, New Delhi. India.
- Ramamurthy, K., 1982. Map Interpretation, Rex Printers, Madras.
- Robinson A. ,1953. Elements of Cartography, John Wiley.
- Sharma J. P., 2010. Prayogic Bhugol, Rastogi Publishers.
- Singh R.L. and Singh R.P.B., 1999. Elements of Practical Geography, Kalyani Publishers.
- Singh R.L., 1998. Prayogic Bhugol Rooprekha, Kalyani Publication.
- Singh, G., 2005. Map work and practical geography. Vikas Publishing House Pvt. Ltd., New Delhi
- Singh, L.R. and Singh, R., 1973. Map work and practical geography, Central Book Allahabad
- Siddhartha, K., 2006. Geography through maps, Kisalaya Publications Pvt. Ltd, Delhi
- Singh, R.L., and Dutt, P.K., 1968. Elements of practical geography, Students' Friends, Allahabad
- Steers, J.A., 1970. An Introduction to Study of Map Projections. University of London Press Ltd., London.

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