7. Coward, J. Eastwood, D. (1984) Worked Exercises in Human Geography, Cambridge, Cambridge University Press.
8. Cressie, N. (1993) Statistical Analysis of Spatial Data, New York, John Wiley and Sons.
9. Hetlne, B. (1990). Development Theory and the Three World, London, Longman.
10. Jordan, T.G. & Rowntree, L. 1990. The Human Mosaic, New York, Harper & Row
11. Rao, M.S. (1993) Teaching of Geography, New Delhi, Anmol Publication.
12. Rogerson, P.A. (2001) Statistical Methods for Geography, London, SAGE Publications.
13. Worral, L. (1992) Spatial Analysis and Spatial Policy Using Geographic Information, New Delhi, CBS..

**Geog 436. Thesis**

(In lieu of two optional papers in semester VIII)

**Elective Papers: Geography Courses**

**Geog. 403 Agricultural Geography Cr. Hours (03)**

**I- Introduction to Agricultural Geography:**

i. Introduction
ii. Nature and Scope
iii. The Origins and Development of Agriculture
iv. Theoretical aspects of Geographical Location relevant to agriculture

**II- Approaches to the Study of Agriculture in Geography:**

i. Introduction
ii. Approaches: Commodity, Regional, deterministic, systematic

**III- Factors Influencing Agricultural Patterns:**

i. Physical Factors: The Terrain, Climate, Soil, Water Resources
ii. Socio-Economic Factors: Technological, Population, Cultural, Infrastructure
iii. Land, Labour and Capital
iv. Government and Regional Policies

**IV- Models in Agricultural Geography:**

i. The Nature and Need of Models
ii. Classification of Models
iii. Models of agricultural activity
    a. Economic Models
    b. Descriptive Models

**V- Agricultural Regions: Concepts and Techniques:**

i. Concept and Methodology
ii. Techniques: Normative, Empirical, Single Element, Statistical
iii. Methods of Agricultural Regionalization
iv. Data Classification and Distribution
v. Agricultural Types

vi. Agricultural systems of the World

**VI- Field Studies and Surveys:**

i. Land Use Survey: Techniques of Land use survey
ii. Land Capability Survey
iii. Land Suitability evaluation Survey
iv. Land Classification

**Books Recommended :**


1. Bowler, I. R. 1979 Government and Agriculture: a spatial perspective Longman London.
2. Bowler, I. R. 1985 Agriculture under the Common Agricultural Policy: a geography. University Press Manchester.
3. Bowler, I. R. 1992 The industrialization of Agriculture. In Bowler I. R. (ed). The Geography of Agriculture in Developed Market Economies. John Wiley & Sons, New York.
4. Briggs, D. J. & Courtney, F. M. 1989 Agriculture and Environment. Longman, Singapore.
5. Dube, R. S. 1987 Agricultural Geography: Issues and Applications, Gian Publishing House, Delhi.
6. Grigg, D. 1984 An Introduction to Agricultural Geography, Hutchinson, London.
7. Ilbery, B. W. 1985 Agricultural Geography: A social and economic analysis Oxford University press, Oxford.
8. Munton, R. J. C. & Morgan, W. B. 1971 Agricultural Geography, Methuen & Co., Cambridge.
9. Newbury, P. A. R. 1999 Agricultural Geography, Longman London.
10. Rhind, D. & Hudson, R. 1980 Land use, Methuen and Co. London.
11. Shukla, L. 1991 Readings in Agricultural Geography, Scientific Publisher, Jaipur.
12. Singh, J. & Dhillon, S. S. 1984 Agricultural Geography, Tata McGraw-Hill, New Delhi.
13. Symons, L. 1967 Agricultural Geography, Frederick New York.


## Geog. 404 Conservation of Resources Cr. Hours (03)

**I- Scope of the subject:**

Its importance, problems created by the expanding population; advancing technology, increasing standings of living and greater demand for space and goods thereof. Relation of subject to other disciplines.

**II- Agricultural Resources:**

Agriculture and man. Types of agriculture, agricultural land use and cropping pattern. Efficiency of agriculture, problems relating to agricultural land. Agricultural regions of the word.

**III- Animal Resources:**

Ranching and pasture, problems of overgrazing, carrying capacity of land, recent changes in ranching brought about by scientific agriculture feedlots and custom feeding, modern range management.

**IV- Problems of Human Population:**

Population distribution in different ecosystems, and different societies (with different technical skill), rate of growth of population. Relationship between man, his skills and natural resources.