

ELECTIVE COURSE

GEOG.720:

GOEGRAPHY OF IRRIGATION

3(3-0)

Course Objectives

The objective of this course is to provide the understandings of concepts, ways and means of irrigation in general and the irrigation management methods in particular.

Learning Outcomes

The students will be able to plan better strategies and management practices for the utilization of irrigation water.

Course Outline

1. **Introduction**
 - Nature, status and scope
 - Development of irrigation geography
2. **Means and Methods**
 - Means of irrigation
 - Types of irrigation across the world
3. **Determinants of Irrigation**
 - Climate
 - Topography
 - Types of agriculture
 - Farm-size
 - Technology
 - Man-land ratio
 - Regional economy
4. **Irrigation Institutions**
 - Institutions
 - Water use regulations in national and provincial context
 - Watershed management; rain-water, harvesting, aquifer recharge techniques.
5. **Irrigation and Related Problems**
 - Irrigation subsidies
 - Water disputes
 - Water logging and salinity
 - Water pollution

Recommended Books

1. Leslie Symons. Frederick (1990) "Agricultural Geography", A Praeger, New York.
2. F.K. Khan (1990) "Economic Geography", Oxford Press London.
1. Alizai Yaqoob. (1969) "The Role of Irrigation in Pakistan", Department of Geography, University of Kansas, U.S.A.
2. Cantor Leonord (1967) "A World Geography of Irrigation", Oliver and Boyd, USA.
3. Stamp L.D (1967) "A history of Land-use in Arid Region", UNESCO, New York.
4. Roy Huffman "Irrigation Development and Public Policy", Ronald Press, N.York.
5. S.K. Sadhu khan (1986) "Economic Geography" S. Chand & Co. Ltd. New Delhi.