

DISCIPLINE SPECIFIC ELECTIVES (DSE-02): GEOGRAPHY OF ARID AND SEMI-ARID REGION

Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course	Department offering the course
		Lecture	Tutorial	Practical/ Practice			
GEOGRAPHY OF ARID AND SEMI-ARID REGION	4	3	1	0	12 th Pass	Nil	GEOGRAPHY

Course Objectives:

- To evolve the understanding of the regional dimensions of arid and semi-arid regions.
- To correlate the physical dimensions with human perspectives as population size and occupation of arid regions.
- To understand the challenges of aridity in global perspective and measures of sustainability.

Learning Outcome:

- Developing the skill to differentiate the geographical uniqueness on space.
- Comprehend the regional knowledge of arid regions for the application of social welfare.
- Analysis and evaluation of regional geographical parameters of aridity related to its challenges and livelihood security.

SYLLABUS OF DSE-02

Unit-I: Introduction (5hrs):

- Extent, Characteristics and Determinants of arid and semi-arid regions of the world

Unit-II: Climate and Vegetation (10hrs):

- Types and characteristics.

Unit-III: Human Aspects (10hrs):

- Population distribution and major tribes.

Unit-IV: Economic Aspects (10hrs):

- Agriculture, Livestock rearing and tertiary activities.

Unit-V: Challenges and sustainability (10hrs):

- Desertification, land degradation, biodiversity loss and practices of livelihood security.

Suggestive Readings:

1. Hill, Michael, 2002, Arid and Semi-Arid Environments, Hodder Murray, London.
2. Campos-Lopez, Enrique and Anderson, Robert J. (eds), 2018, Natural Resources and Development in Arid Regions, Routledge, Newyork.
3. Goudie, Andrew, S., 2013, Arid and Semi-Arid Geomorphology, Cambridge University Press.
4. Ferguson, Gabriel, 2015, Arid and Semi-Arid Environments, NOVA.
5. Whitford, W.G. and Duval, B.D., 2019, Ecology of Desert Systems, Elsevier.
6. Laity. J., 2018, Deserts and Desert Environments, Wiley Blackwell.
7. Sharma, R.C., 1998, Thar: The Great Indian Deserts, Roli Books.
8. Warner, T., 2004, Desert Meteorology, Cambridge University Press.
9. Bhandari, M.M. and Vyas, S.P. 2019, Flora of The Indian Desert: Their Economic And Medicinal Value, Scientific Publishers.
10. Walton, Kenneth, 2009, The Arid Zones, Aldine Transactions, New Brunswick (UDA), London (UK).
11. Gritzner, Charles F., 2007, Geography of Extreme Environments: Deserts, Chelsea House, Newyork.
12. Aleshire, Peter, 2008, The Extreme Earth: Deserts, Chelsea House, Newyork.

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.