Course title: Policy Perspectives on Water			
Course code: PPS 193	**No. of credits:** 2	**L-T-P:** 28-0-0	**Learning hours:** 28
Pre-requisite course code and title (if any): None			
Department: Policy Studies			
Course Coordinator(s): Prof Arun Kansal		**Course Instructor(s)**: Dr Punam Pandey	
Contact details: akansal@teriuniversity.ac.in			
Course type: Core		**Course offered in**: Semester 2	

Course Description

This course will introduce students to diverse perspective on water resource management. It examines the relations between water and development and explores this relation in the context of policy framework which is increasingly being influenced by conflict over resources. A prominent focus of this course is on discussing the trajectory of water management reforms in India and salience of various actions in bringing positives changes in its management.

Course objectives

1. To introduce students to principles and conceptual issues in the analysis of water scarcity and security
2. To provide familiarity with approaches and multi-dimensionality of water management

Course content

Module	Topic	L	T	P
1.	**Water as component of Ecosystem** Introduction to models and systems; Water and Climate; Water and Soil; Water and Vegetation.	5		
2.	**Overview of water situation in India** Introduction to Water Stress and Water Quality Index; Status and Trends of SW & GW exploitation and pollution; factors responsible- technical, policy and institutional factors.	5		
3.	**Water and Development** Water and Food; Water and Energy; Population, human settlement and water use; Water and Industry; Evolution of understanding of water security and governance Concepts of transboundary water Water access, ownership and rights	8		
4.	**Water management approaches and national strategies** River basin approach; Watershed approach; Community management; Economics, finance and private sector participation; Sectoral analysis of water management (Agriculture, Domestic, Industry, Power (thermal and Hydro)), interlinking projects	6		
5.	**Water Security and conflict management** Concept of water security, Regional consciousness and inter-state issues	4		
	Total	**28**	**0**	**0**

Evaluation criteria:	Weightage (%)
Class participation	25%
Class presentation	25%
Review papers	25%
Written exam	25%

Learning outcomes

At the end of the course, students would:

- Have the ability to understand the reasons for contestation over water resources, its management and governance
- Be able to understand, analyse issues regarding water governance and reforms in India taking into account social, economic and environmental parameters
- Be able to articulate the contemporary challenges that the water sector in India faces.

Pedagogical approach

This course has been designed wherein students will be able to read, discuss and write about work being discussed. The course will be run majorly as a discussion forum and it will be expected that student read beforehand the assigned reading and come prepared to the class to participate in the discussion. This will also give them an opportunity to reflect on author's approach, methods employed, and explanatory building blocks used to take forward the argument. Audio-visual tools like short documentaries that highlight the issues will also be used in the class.

Materials:

Required text

Suggested readings:

Note: Latest research papers, articles and topic-wise readings will be suggested in class.

1. Loucks, D.P., J.R. Stedinger, and D. A. Haith, (1981) *Water Resource Systems Planning and Analysis*, Englewood Cliffs, NJ, Prentice Hall.
2. Simonvic, S.P. (2009) Managing water resources: Methods and tools for a system approach, UNESCO Publishing, France.
3. Loucks,D.P. and J.S. Gladwell, (1999) *Sustainability Criteria for Water Resource Systems*, Cambridge, UK, Cambridge University Press.
4. Chorley, R. J. 1969. Water, earth and man: a synthesis of hydrology, geomorphology and socio-economic geography. London: Methuen young Books.
5. Ehrlich, P.R., Holdren, J.P., and Ehrlich A. H.1978. Ecoscience: population, resources, environment, 3rd ed. San Franscisco: W.H. Freeman.
6. Shaw E. M. (1994) Hydrology in Practice (3rd Edition), Chapman & Hall, London.

Case Studies

Websites

Journals

Other readings

Additional information (if any): None

Student responsibilities

The nature of the course demands that the students shall attend all lectures and have the habit of identifying and reading open e-learning resources.

Reviewers

1. Prof Ajay Temburkar, DoCE, VNIT, Nagpur
2. Dr A K Mishra, DoCE, NCU, Gurugram