

Government Degree College, Baramulla

SEMESTER 1st

Multidisciplinary Course

Subject: Water Management

Title: Water Resource: Economics, Governance and Policy Code: BWM22M103

Credit: (3) Theory: 03

Contact Hours: 48 (T)

***Course Objective:** The objective of this paper is to give exposure to the students of social science, natural sciences and humanities for better understanding of water resources, water economics, water governance and policy.*

***Learning outcome:** It is expected that the students will understand and apply the policies, strategies developed for the sustainable practices of water conservation, management of water resources and importance of health and hygiene.*

Theory: 03 Credits

Unit I: Water resources and sustainable development

(16 hrs)

Water as a resource, Brief account of concept of water stress, scarcity, Dublin-Rio Principles on Water and Sustainable Development, Water footprint and virtual water trade, Right to Water (SDG-6); Entitlements and criteria, Concept and overview of Water, Sanitation and Hygiene (WASH), Swachh Bharat Mission and National Water Mission.

Unit II: Water economics

(16 hrs)

Valuing of water: The use and non-use values of water, Introduction to water valuation methods: Non-revenue waters (NRW) and unaccounted for water (UFW), Water Pricing - Approach and Models: Significance of water pricing, Water pricing models - flat rate and uniform rate, Brief account of water pricing practices in India and abroad.

Unit III: Water governance, conflicts and policy

(16 hrs)

Water Governance: Elements and dimensions of water governance, Effective water governance schemes, Indicators of good governance, Water Governance in India: Salient features of National water policy 2012, National water conflicts.

Suggested readings

1. Handbook of Water Economics: Principles and Practice (2003) by Colin H. Green; Publisher Willy
2. Handbook of Water Economics (2015) by Ariel Dinar and Kurt Schwabe (editors); Publisher Edward Elgar
3. Water and the Laws in India (2009) by Ramaswamy R. Iyer; Publisher - SAGE Publications
4. Water Law Poverty and Development, Water Sector Reforms in India by Philippe Cullet; Publisher - Oxford (2009)
5. Water Resource Economics: Towards a Sustainable Use of Water for Irrigation in India (2015) by M.G. Chandrakanth; Publisher - Springer
6. Water Governance: An Evaluation of Alternative Architectures (2013), by A. Gunawansa and L. Bhullar (editors) Publisher - Edward Elgar (2013)