SOFT COURSE: GYS 505: Coastal Geography

Course Learning Outcomes:

CO1. Analyze critically the theories and models in the real world with different perspectives.
CO2. Analyze human interventions and effects in coastal area.
CO3. Apply conceptual and theoretical measures to coastal geography.
CO4. Apply basic techniques from global to regional level to identify the problems of coastal area.

Units	Course Content	Teaching Hours
1	**Coastal Management: Physical Aspects:** Definition of coastal zone and related nomenclature. Coastal processes: Wave, tide and wind. Coastal currents and cells. Coastal morph dynamics: Micro, macro and biogenic forms. Systems of change in coasts: cyclical and progressive. Classification of coasts based on processes and sediment characteristics	**14**
2	**Coastal biogeography:** Special reference to sea weeds, mangroves, dune vegetation and corals, their ecological and economic significance. Natural coastal hazards and their management: Sea level rise, erosion, sedimentation and tropical cyclones. Techniques of monitoring changes in coastal processes and landforms.	**14**
3	**Coastal Management:** Human Aspects: Coastal regulations with special reference to India. Human utilization of coasts, environmental impacts and management: Navigation, mining, fishing and fish-processing, off-shore oil exploitation, reclamation and tourism. Coastal engineering and its impacts: Ports and harbors, measures for prevention of erosion and sedimentation.	**14**

Reference:

1. Bird, E.C.F. (2000): An Introduction to Coastal Geomorphology, John Wiley and Sons Ltd. New York: 340 p. [Topics 2.3, 4.4]
2. Carter, R.W.G. (1988): Coastal Environments: An Introduction to the Physical, Ecological and Cultural Systems of Coastlines, Academic Press, London: 617p. Topic 2.3]
3. Chow, V.T, Maidment, D.R. and Mays, L.W. (1988): Applied Hydrology, McGraw-Hill, New York: 572 p. [Topic 3.2]
4. Garrison, T. (1993): Oceanography: An Invitation to Marine Science, Wadsworth Pub. Co., Belmont: 540 p. [Topics 4.1, 4.2, 4.3]
5. Johnson, H.D. and Baldwin, C.T. (1996): 'Shallow clastic seas.' In Reading H.G. (Editor): Sedimentary Environments: Processes, Facies and Stratigraphy, 3rd edition, Blackwell Science Ltd. Oxford: pp 232–280. [Topic 2.3]
6. Knighton, D. (1998): Fluvial Forms and Processes: A New Perspective, Arnold, London: 385p. [Topics 2.1, 2.2]
7. Morisawa, M. (1985): Rivers, Longman, London: 222p. [Topics 2.1, 2.2, 3.1]
8. Murthy, K.S. (1998): Watershed Management in India, 3rd edition, Wiely Eastern Ltd. / New Age International Ltd., New Delhi: 198p. [Topic 3.4]
9. Newson, M. (1992): Land Water and Development, River Basin Systems and their Sustainable Management, Routledge, London: 350p.

MANGALORE UNIVERSITY

MANGALAGANGOTHRI – 574 199

DEPARTMENT OF GEOGRAPHY

Adoption of Government Schools - A Programme by the Government of Karnataka under Education Reforms

Celebration of

World Water Day 2021

"VALUING WATER"

Special Talk and Demo on Rainwater Harvesting

By

Prof. H. Gangadhara Bhat

Department of Marine Geology, Mangalore University

Hon'ble Chief Guest

Sri. K. Raju Mogaveera K.A.S.

Registrar, Mangalore University

Preside by

Sri. Karuna S.

Head Master, DKZP. High School Pavoor

Date: 22.03.2021 **Time:10.30am**

Venue:

DKZP. Government High School Pavoor

ALL ARE CORDIALLY INVITED

Dr. Dasharatha P. Angadi	Dr. Shekar Naik	Prof. Prashanth Naik
Programme Coordinator	Nodal Officer	Special Officer

World Water Day – 2021

Department of Geography, Mangalore University, Mangalagangothri, organized World Water Day 2021 Program on 22-03-2021 at DKZP. Government High School Pavoor, under Adoption of Government Schools - A Programme by the Government of Karnataka under Education Reforms.

Dr. Dasharatha P. Angadi, Programme Co-Ordinator of Department of Geography, Mangalore University in his speech explained to the youths about the importance and goal of celebrating World Water Day each year with different themes. The program was presided by Sri. Karuna S. Head Master, DKZP. High School Pavoor. Shri. Mohammad Monu, SDMC president of the school spoke about the significance and minimal use of water. Prof. H. Gangadhara Bhat Department of Marine Geology, Mangalore University, resource person gave Special Talk and "Demo on Rainwater Harvesting" to the gathering. Prof. Prashanth Naik, Special Officer, Dr. Shekar Naik, Nodal Officer, Dr. Ramesh S Gani, Department of Industrial chemistry, were part of the program.

The program was attended by the students of DKZP. Government High School Pavoor, and Post Graduate students of Geography, Marine geology, Geoinformatics of Mangalore University.