

A PRIMER ON BIODIVERSITY AND ECOLOGY OF FRESHWATER ECOSYSTEMS OF THE WESTERN GHATS

The Western Ghats is lauded as a biodiversity hotspot since the last four decades based on its terrestrial biodiversity. However, the freshwater biodiversity of this region is underappreciated. Water bodies in the Western Ghats support the entire Peninsular India by providing water for drinking, irrigation, and hydro power generation and sustaining nearly 40 crore people across eight states.

This course will introduce various biological components of the fresh water ecosystems of the Western Ghats with a food chain-based approach. The course will be conducted between 15 and 30 April 2021 and will include 15 lectures (one hour), a laboratory visit and a one day field trip. The participants will gain basic knowledge about various groups of freshwater organisms and the need and ways for their conservation.

The course is designed for doctoral students, post-doctoral fellows, young investigators from industry and academia, research/science managers, CTOs and CSOs, in and around Pune.

- Duration and dates: 16 days from 15 to 30 April 2021
- Number of participants: 20
- There will be no registration/participation charges
- The course will consist of 15 online sessions (10:30 –11:30 am) followed by 2 days of laboratory (Agharkar Research Institute, Pune) and field demonstrations (Near Pune) *

* Laboratory and field demonstrations are subject to change as per the prevailing COVID-19 condition

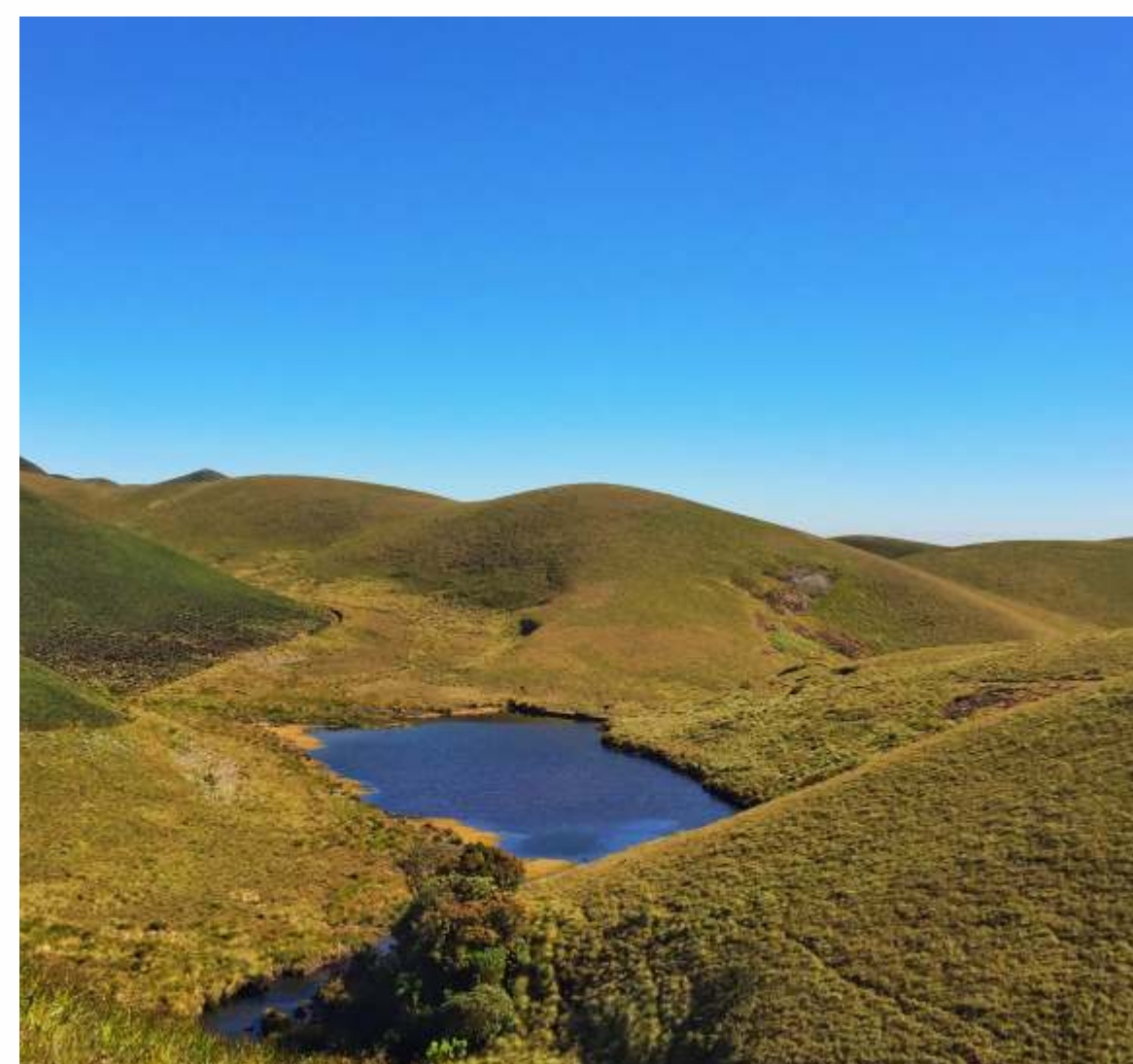


Lectures commence from:

15th April 2021

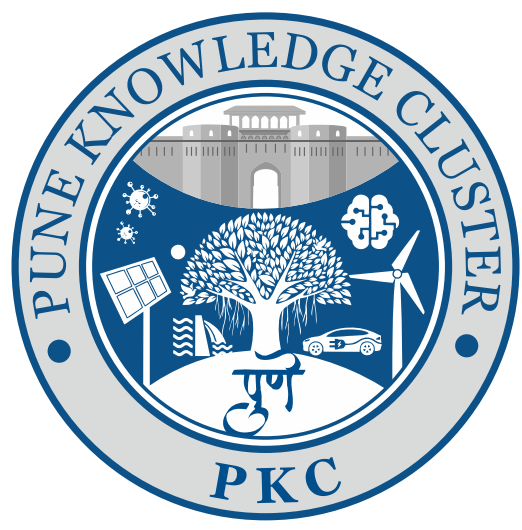
Last date of application:

5th April 2021



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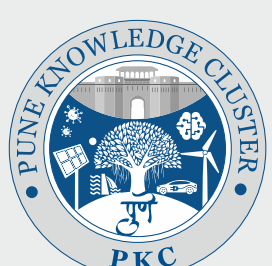
COURSE DETAILS

Date	Title	Speaker
15/04/2021	Freshwater Ecosystem of Western Ghats An introduction to the systems and the course	Dr. Karthick Balasubramanian, Agharkar Research Institute, Pune
16/04/2021	The Geological Evolution of the Western Ghats from 3.2 Billion years to present	Prof. Dr Raymond A Duraiswami, Dept of Geology, SPPU Pune
16/04/2021	On the ecological history of the Western Ghats	Dr. MD Subash Chandran, Centre for Ecological Sciences, IISc, Bangalore
17/04/2021	Diatoms - The primary producer of Western Ghats streams.	Dr. Karthick Balasubramanian, ARI Pune
19/04/2021	Primary consumers in the freshwater habitats of Western Ghats - Freshwater 'fairies' and 'fleas'	Dr. Sameer Padhye, Biologia Life Science, Pune
20/04/2021	Primary consumers of Western Ghats Streams Part 2 (Macroinvertebrates)	Dr KA Subramanian, Southern Regional Centre, Zoological Survey of India, Chennai
21/04/2021	Primary consumers of Western Ghats Streams Part 3 (Mollusks)	Dr. Aravind Madhyastha, ATREE, Bangalore
22/04/2021	Secondary consumers of Western Ghats Streams Part 4 (Fishes)	Dr. Rajeev Raghavan, Kerala University of Fisheries & Ocean Studies, Kochi
23/04/2021	Secondary consumers of Western Ghats Streams Part 3 (Freshwater crabs)	Prof. Biju Kumar, Department of Aquatic Biology and Fisheries, University of Kerala
23/04/2021	Tertiary Consumers : The Mammals of Rivers of Western Ghats A Case of River Otters	Mr. Nisarg Prakash, Wildlife Biologist, Bangalore
24/04/2021	Impact of dams in Western Ghats Rivers and its biodiversity Case from Fishes	Dr. Vidyadhar Atkore, Worldwide Funds for Nature, New Delhi
24/04/2021	Myristica Swamps of Western Ghats A micro biodiversity hotspot within hotspot	Dr. Joyce Jose, Assistant Professor of Zoology, St. Thomas College, Thrissur
26/04/2021	Western Ghats Riverine Ecosystem Restoration	Ms. Neethi Mahesh, Wildlife Conservation Society, Bangalore
27/04/2021	Ecohydrology of Rivers of the Western Ghats	Dr. Jagadesh Krishnaswamy, ATREE, Bangalore
28/04/2021	Ecosystem services of stream - dwelling amphibians of the Western Ghats	Dr. KV Gururaja, Srishti Manipal Institute of Art, Design and Technology, Bangalore
29/04/2021	An introduction to limnology and methods (Lab)*	Mr. Samadhan Pardhi, Mr. Vigneshwaran
30/04/2021	One Day Field trip to Mula-Mutha River Basin* *Subject to COVID - 19 norms	Mr. Samadhan Pardhi, Mr. Vigneshwaran

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The Pune Knowledge Cluster (PKC) has been established by the Office of the Principal Scientific Advisor to the Government of India. The aim is to bring together academia, R&D institutions and the industry of Pune and its surrounding regions to address the challenging problems of the region through innovative means, using scientific knowledge and engaging highly skilled human resources.

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