

A19/Geo1



BARASAT COLLEGE

(Affiliated to West Bengal State University)

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Ref No. BCN/ADD/DEPT_GEOG/0302/2022

Date: 13th March, 2022

NOTICE

This is to notify that the Department of Geography will conduct an Add-on Course on Water Resources from 21st to 25th March, 2022 in Room No. 13 from 10 A.M. to 4 P.M. Interested students should register for the course to the H.O.D, department of Geography within 20th March, 2022.

Dr. Parthapratim Dasgupta
.M.A, M.Phil, Ph.D
Principal
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VALUE ADDED COURSE: WATER RESOURCE
COURSE DURATION: 30 HOURS
VENUE-ROOM 13

DATE AND TIME - 21-25 MARCH, 2022, 10.00 AM - 4.00 PM

UNIT – I Introduction: Water Resource **6 HOURS**

1. Definition and Scope of Water Resources Geography
2. Classification of water resources
3. Water Budget
4. Utility of water
5. Identification of different forms of water used as resources
6. Spatial distribution patterns of water resources

DATE	TOPIC	DURATION	NAME OF THE FACULTY
21/03/2022	1. Definition and Scope of Water Resources Geography	1 HOUR	Paramita Banerjee
21/03/2022	2. Classification of water resources	1 HOUR	Piyali Roy
21/03/2022	3. Water Budget	1 HOUR	Nibedita Chakraborty
21/03/2022	4. Utility of water	1 HOUR	Chirasree Bagchi
21/03/2022	5. Identification of different forms of water used as resources	1 HOUR	Prateeti Bandyopadhyay
21/03/2022	6. Spatial distribution patterns of water resources	1 HOUR	Avijit Mondal

UNIT – II Hydrologic Basis of Water Resources

6 HOURS

7. General Concepts in Hydrology
8. Global Hydrologic Cycle
9. Precipitation, Evaporation and Evapotranspiration

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10. Infiltration and Runoff
11. Streamflow and Watersheds
12. Groundwater

DATE	TOPIC	DURATION	NAME OF THE FACULTY
22/03/2022	7. General Concepts in Hydrology	1 HOUR	Prateeti Bandyopadhyay
22/03/2022	8. Global Hydrologic Cycle	1 HOUR	Paramita Banerjee
22/03/2022	9. Precipitation, Evaporation and Evapotranspiration	1 HOUR	Avijit Mondal
22/03/2022	10. Infiltration and Runoff	1 HOUR	Piyali Roy
22/03/2022	11. Streamflow and Watersheds	1 HOUR	Nibedita Chakraborty
22/03/2022	12. Groundwater	1 HOUR	Chirasree Bagchi

UNIT – III Water Resource Usage and Issues

6 HOURS

13. Availability and potential of water
14. Water Supply and Demand in the India.
15. Water Pollution: River Water Pollution, Industrial Use of Water and Trend of Water Supply
16. Common water Issues in Irrigation and Agriculture
17. Water scarcity and threats
18. Water law and policy in India

DATE	TOPIC	DURATION	NAME OF THE FACULTY
23/03/2022	13. Availability and potential of water	1 HOUR	Avijit Mondal
23/03/2022	14. Water Supply and Demand in the India.	1 HOUR	Avijit Mondal
23/03/2022	15. Water Pollution	1 HOUR	Piyali Roy
23/03/2022	16. Common water Issues in Irrigation and Agriculture	1 HOUR	Chirasree Bagchi
23/03/2022	17. Water scarcity and threats	1 HOUR	Nibedita Chakraborty
23/03/2022	18. Water law and policy in India	1 HOUR	Piyali Roy

UNIT – IV: Water and Society

6 HOURS

19. Interaction between water and society from ancient time to the present
20. Flood Hazards and Floodplain Modelling
21. Dams and Reservoirs.
22. Drought and Dry Farming

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23. River Bank erosion and environmental degradation
24. Water-related disaster: Climate change observations, Projection and Implications for human health and society

DATE	TOPIC	DURATI ON	NAME OF THE FACULTY
24/03/2022	19. Interaction between water and society from ancient time to the present	1 HOUR	Piyali Roy
24/03/2022	20. Flood Hazards and Floodplain Modelling	1 HOUR	Paramita Banerjee
24/03/2022	21. Dams and Reservoirs.	1 HOUR	Avijit Mondal
24/03/2022	22. Drought and Dry Farming	1 HOUR	Nibedita Chakraborty
24/03/2022	23. River Bank erosion and environmental degradation ng	1 HOUR	Prateeti Bandyopadhyay
24/03/2022	24. Water-related disaster	1 HOUR	Chirasree Bagchi

UNIT – V Water Quality and Resource Management 6HOURS

25. Water Conservation, Traditional Methods of Water Conservation in India
26. Integrated Basin Planning
27. Watershed Management
28. River Water Disputes
29. Water Management through Remote Sensing Technology
30. Integrated Water Resource Management

DATE	TOPIC	DURATION	NAME OF THE FACULTY
25/03/2022	25. WaterConservation and Traditional	1 HOUR	Avijit Mondal
25/03/2022	26. Integrated Basin Planning	1 HOUR	Prateeti Bandyopadhyay
25/03/2022	27. Watershed Management	1 HOUR	Paramita Banerjee
25/03/2022	28. River Water Disputes	1 HOUR	Nibedita Chakraborty
25/03/2022	29. Water Management through Remote Sensing Technology	1 HOUR	Piyali Roy
25/03/2022	30. Integrated Water Resource Management	1 HOUR	Chirasree Bagchi

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