

Course Duration: 30 Hours

From 1st week of May 2021
to last week of June 2021

Faculty: Internal (Department of Geography)



DEPARTMENT OF GEOGRAPHY

HAZI A. K. KHAN COLLEGE
HARIHARPARA, MURSHIDABAD

ABOUT THE ADD-ON COURSE

"FUNDAMENTALS OF HYDROLOGY" IS A SPECIALIZED COURSE THAT FOCUSES ON THE STUDY OF WATER IN ITS VARIOUS FORMS AND PROCESSES WITHIN THE EARTH'S HYDROLOGICAL CYCLE. THIS COURSE TYPICALLY COVERS A RANGE OF TOPICS SUCH AS THE NATURE AND SCOPE OF HYDROLOGY AND ITS RELEVANCE, CONCEPT OF GLOBAL HYDROLOGICAL CYCLE & BASIN HYDROLOGICAL CYCLE, FACTORS OF RUN-OFF AND ITS TYPES, FACTORS INFLUENCING INFILTRATION, EVAPORATION AND TRANSPIRATION. IT PROVIDES STUDENTS WITH A COMPREHENSIVE UNDERSTANDING OF MOVEMENT OF GROUND WATER AND ANALYSIS OF HYDROGRAPHY ALONG WITH THEIR PRACTICAL APPLICATIONS IN VARIOUS FIELDS. THE COURSE IS VALUABLE FOR THOSE INTERESTED IN ENVIRONMENTAL SCIENCE, HYDROLOGY RESEARCH, AND RELATED DISCIPLINES.

INTRODUCES

An Add-on Course on FUNDAMENTALS OF HYDROLOGY

This Course is Open to
all
Geography Honours
Students

Course Fee: NIL

Assessment process:

Students will be graded on Course- end Assessment and Attendance

COURSE CONTENT

MODULE-1: NATURE AND SCOPE OF HYDROLOGY AND ITS RELEVANCE
[TIME: 3 HOURS]

MODULE- 2: CONCEPT OF GLOBAL HYDROLOGICAL CYCLE & BASIN
HYDROLOGICAL CYCLE [TIME: 6 HOURS]

MODULE-3: FACTORS OF RUN-OFF AND ITS TYPES AND RUNOFF CYCLE
[TIME: 4 HOURS]

MODULE- 4: CONCEPT AND FACTORS INFLUENCING INFILTRATION,
EVAPORATION AND TRANSPIRATION [TIME: 8 HOURS]

MODULE- 5: COMPONENTS, FACTORS AND PROCESSES OF CONTROLLING
STORAGE AND MOVEMENT OF GROUND WATER, AQUIFERS & ANALYSIS
OF HYDROGRAPHY [TIME: 6 HOURS]

SCREENING OF RELEVANT VIDEOS AND ITS ANALYSIS (YOU TUBE) = 3
HOURS (ACCORDING TO COURSE REQUIREMENTS)

COURSE OUTCOME

AFTER COMPLETING THE COURSE, THE STUDENTS WILL BE ABLE TO-

- Ø GET THE IDEA ABOUT THE SIGNIFICANCE AND RELEVANCE OF HYDROLOGY
- Ø DEVELOP THE KNOWLEDGE ABOUT HYDROLOGICAL CYCLE AND ITS ROLE
- Ø BUILD KNOWLEDGE ABOUT RUN-OFF, INFILTRATION, EVAPORATION AND TRANSPIRATION AND THEIR ROLE IN THE ENVIRONMENT
- Ø REALISE THE DETERMINING FACTORS OF STORAGE OF GROUND WATER AND ITS SIGNIFICANCE
- Ø BUILD THE KNOWLEDGE ABOUT DIFFERENT TYPES OF AQUIFERS
- Ø CONSTRUCT IDEA ABOUT HYDROGRAPH AND ITS IMPORTANCE

Course Coordinator

Prottyus Kumar Ghosh

HOD, Department of Geography

Hazi A. K. Khan College

8436087569



geographydepartmenthakkc@gmail.com

