



**DEPARTMENT OF CIVIL ENGINEERING**

**ACADEMIC YEAR: 2021-22**

**A SUMMARY REPORT**

**Course Name:** HYDROLOGY & WATER RESOURCES ENGINEERING

**Name of the Resource Person:** Mr. Haroon Alikhan, Assistant Professor,

V. R. Siddaradha Engineering College, Vijayawada.

**Gap Identified:** Flood Routing and Hydraulic Channel Routing.

**No. of Students attended:** 38 members

**Summary:** On the day of the session (i.e 23-04-2022) Mr. Haroon Alikhan, Assistant Professor, V. R. Siddaradha Engineering College, Vijayawada. Delivered a lecture on the basics of Introduction to the course of Flood routing is the technique of determining the flood hydrograph at a section of a river by utilizing the data of flood flow at one or more upstream sections. The hydrologic analysis of problems such as flood forecasting, flood protection, reservoir design and spillway design invariably include flood routing. In these applications two broad categories of routing can be recognized. These are:

1. Reservoir routing,
2. Channel routing

A variety of routing methods are available and they can be broadly classified into two categories as:

1. Hydrologic routing
2. Hydraulic routing



Hydrologic-routing methods employ essentially the equation of continuity. Hydraulic methods, on the other hand, employ the continuity equation together with the equation of motion of unsteady. Channel routing the storage is a function of both outflow and inflow discharges. The total volume in storage can be considered fewer than two categories as:

1. Prism storage,

2. Wedge storage



**MOTHER TERESA**  
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Dt: 23-04-2022.

To  
Mr. Haroon Alikhan,  
Assistant Professor,  
V. R. Siddaradha Engineering College,  
Vijayawada.

**Sub: Letter of Appreciation– Reg.**

**Dear Sir,**

We would like to thank you for being delivered the keynote lecture on “Flood Routing and Hydraulic Channel Routing.” on 23<sup>rd</sup> APR, 2022. for a Programme on “HYDROLOGY & WATER RESOURCES ENGINEERING” organized by Department of Civil Engineering Conducted at Mother Teresa Institute of Science and Technology. Your views on new research areas in Civil Engineering and assessing the outgrowing needs in a competitive challenging environment helps the students to explore the industrial challenges.

Thanking you

With Regards

**(Dr. C. Hari Krishna)**  
Principal