



MGR ASSOCIATION FOR GREAT INNOVATIVE CREATORS

Department of Civil Engineering

Event Title	Subject lecture on Open Channel Flow- IV yr		
Objective of Event	Students gained an insight about the dynamics of flow in real-world scenarios, which can lead to better water management and design of hydraulic structures Students acquired knowledge about the phenomenon of flow		
Chief Guest /Speaker Details	Dr.R.Sudhakar, Professor, Dr.M.G.R Educational & Research Institute		
Date	22/08/2024	Time	10.00 AM to 12.00PM
Venue	Civil Smart Room	No. of Participants	50

REPORT

TITLE

Subject Lecture on Open Channel Flow

CONTENT

Session Outcome:

Students gained an insight about the dynamics of flow in real-world scenarios, which can

lead to better water management and design of hydraulic structures

Students acquired knowledge about the phenomenon of flow velocity zoning in open

channels, which can provide a solution for flow measurement in ecological channels

Students learned to identify different types of channels, such as mild, steep, critical,

horizontal, and adverse

Students learned to calculate and differentiate normal depth (dn) and critical depth (dc)

Students understood flow profiles and learnt to generate gradually varied flow (GVF)

profiles and summarize flow profiles

Students learned to differentiate open channel flows from pipe flow.

Students learned to identify flow as gradually varied flow or rapidly varied flow.

Students learned to determine water surface profiles for channel reaches with



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various
flow controls.

These types of flows are of interest to engineers for a great number of reasons, many of

which are to do with management of the waterway. Open channel flow has many applications in civil engineering and irrigation, such as storm water flowing through gutters,

sewers carrying wastewater, and irrigation channels.



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PHOTOS



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Dr. RA. B. Depaa