



RAMCO INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi & Affiliated to Anna University
Accredited by NAAC & An ISO 9001:2015 Certified Institution
NBA Accredited UG Programs: CSE, EEE, ECE and MECH

Department of Civil Engineering Academic Year 2024– 2025 (Odd Semester)

Degree, Semester & Branch: VII semester B.E Civil Engineering
Course Code & Title: AI3404 & Hydrology & Water Resources Engg.
Name of the Faculty member (s): Mrs. B.BHARANI BAANU

Video lectures for concept clearance

- **Unit / Topic:** Unit IV / Explanation on various kinds of reservoirs and storage components
- **Course Outcome:** CO4
- **Topic Learning Outcome:** TLO13,14
- **Activity Chosen:** Video presentations
- **Justification:**
- Visual demonstration can illuminate intricate topics, such as the workings of reservoir components, functions and uses of reservoirs, more effectively than the most eloquent verbal description.

Time Allotted for the Activity: 15 minutes

- **Details of the Implementation:**

Video learning has positive outcomes on multiple levels, including increased motivation and deeper learning, and can specifically impact students' ability to facilitate discussions and identify problems

CO – PO / PSO mapping:

CO	PO1	PO2	PO10	PSO3	PSO4
CO4	3	3	1	3	1

(1 – Low 2 – Moderate 3 – High)

- **PO / PSO mapped:**

	PO/PSO	Attainment level
Innovative practices	PO1	3
	PO3	3
	PO7	1
	PO10	3
	PSO3	3
	PSO4	1



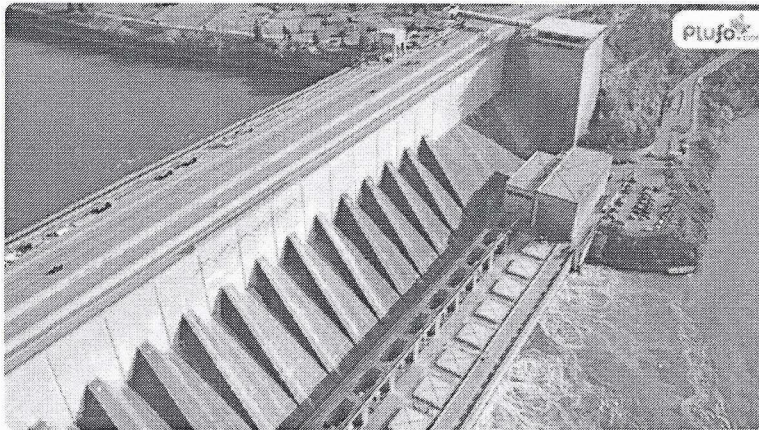
RAMCO INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi & Affiliated to Anna University
Accredited by NAAC & An ISO 9001:2015 Certified Institution
NBA Accredited UG Programs: CSE, EEE, ECE and MECH

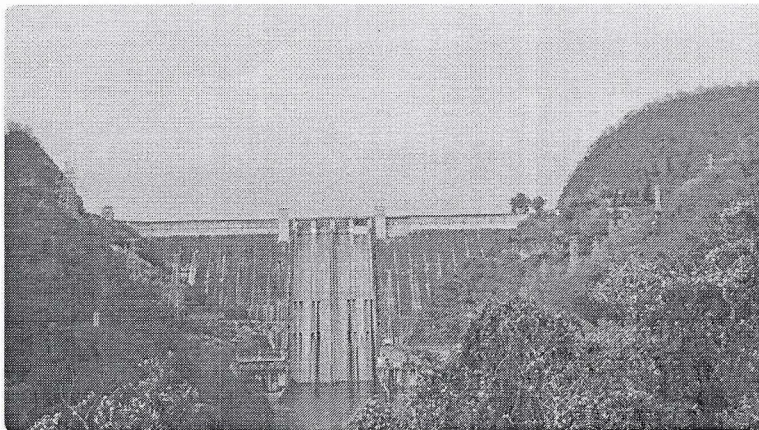
Justification for correlation	Based on the understanding and knowledge of basic sciences, the graduates will be able to understand the flow across and through the catchments.	Designing and understanding the functioning of water storage structures	Explains the importance of storing and conserving of water in reservoirs for attaining sustainability conditions	Lectures will be delivered/communicated in the form of presentations and multimedia systems	Estimate the capacity of reservoir, scouring and silt conditions	Assist in designing and operation of spillways and release of water level from reservoir
--------------------------------------	--	---	--	---	--	--



- **Images / Screenshot of the practice:**



Dams of India - Largest, Highest or oldest, Get all the interesting facts on Indian Dams !! #gk



Bhakra Nangal Dam - Asia's Highest Dam !!

- **Reflective Critique:**

- ❖ **Feedback of practice from students and other stakeholders:**

From this activity, the students have given the feedback as it helps them in understanding the concept of reservoir storage and components in a much better and deeper way.

Benefit of the practice: (E.g.: Outcome attainment would have increased due to innovative practice over conventional practice)

Present information visually: Videos can make information more appealing and dynamic, using graphics, animations, and real-world examples.



RAMCO INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi & Affiliated to Anna University
Accredited by NAAC & An ISO 9001:2015 Certified Institution
NBA Accredited UG Programs: CSE, EEE, ECE and MECH

Make abstract ideas easier to understand: Videos can help students bring abstract ideas to life, making them easier to comprehend and remember.

Enhance learning: videos can be a highly effective educational tool in engaging the learners and also view with confidence

❖ ***Challenges faced in implementation:***

Initially, the activity has been planned for the duration of 15 minutes but had extended more than 20 minutes as the video details the various reservoirs in India

References:

- S.K. Garg - Hydrology & Water resources Engineering, Khanna publications, India
- <https://files.eric.ed.gov/fulltext/EJ1347807.pdf>


Faculty Coordinator


HoD/Civil