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CE416 DESIGN & DRAWING OF HYDRAULIC STRUCTURES**(Dept. Elective - V)****Course Description and Objective:**

At end of the course the student will be in a position to understand the design principles and able to design and draw the hydraulic structures.

Course Outcome:

- Design of Tank sluice with tower head
- Design of surplus weir
- Design of canal regulator

Design and drawing of the following hydraulic structures.

1. Sloping glacis weir.
2. Tank sluice with tower head
3. Type III Syphon aqueduct.
4. Surplus weir.
5. Trapezoidal notch fall.
6. Canal regulator.

Final Examination pattern:

Any two questions of the above six designs may be asked out of which the candidate has to answer one question. The duration of examination will be three hours.

TEXT BOOKS:

1. C.Satyanarayana Murthy, "Design of minor irrigation and canal structures", 3rd ed., Wiley Eastern Ltd., 1998.
2. S.K.Garg, "Irrigation engineering and Hydraulic structures", 4th ed., Standard Book House, 2002.

REFERENCE BOOKS:

1. Introduction To Water Resources And Waterpower Engineering, Dr. P N Modi , - Standard Publication, Delhi
2. Irrigation And Water Resources Engineering, By G L Asawa, - Pub:- New Age Int. Ltd.