



Department of Civil Engineering

Vision: “To impart quality technical education beneficial to industry and the society in the field of Civil Engineering.”

Mission: • To arrange academic and technical expertise.

• To improve the practical knowledge of the student as per current scenario of industry.

• To make the students socially and ethically responsible.

Subject Name: WRE(22501)

Assignment No :- 1

Course Outcome: CO501.1

Topic Name :- INTRODUCTION TO IRRIGATION AND HYDROLOGY

1. Define irrigation.
 2. Define runoff.
 3. State any four merits and demerits of irrigation.
 4. Solve any two examples using thiessons’s polygon method and arithmetic mean method.
 5. Necessity of Drip Irrigation.
 6. Advantages of Drip Irrigation .
 7. Define rainfall and types of automatic rainfall.
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Date of Submission :-

Assign By :- Mrs. Najnin Daryavardi.



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Subject Name: WRE(22501)

Assignment No :- 2

Course Outcome: CO501.2

Topic Name :- Crop water Requirement and reservoir Palnning.

1. Define CGA ,GCA.
2. Define Crop period and base period.
3. Enlist four methods of assessment of irrigation water .
4. Draw Neat sketch of area capacity curve and explain it.
5. Fix the contour level DSL,FRL, HFL TBL

Effective storage = 3000ha.m

Carryover Allowance and tank losses 25%

Dead storage =10% of gross storage.

Contour RL(M)	580	582	584	610	612	614
Storage (mm ³)	3	4	5	30	40	60

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Subject Name: WRE(22501)

Assignment No :- 3

Course Outcome: CO501.3

Topic Name :- Dams and Spillways

1. Define Spillway.
 2. Types of Spillway.
 3. Enlist types of gate provided at reservoir. And explain any one type.
 4. State the reasons for which elementary profile dam is not possible to construct in practice .
 5. Draw neat sketch of Earthen dam.
 6. Draw neat sketch of gravity dam.
 7. Difference between Earthen dam and gravity dam.
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Subject Name: WRE(22501)

Assignment No :- 4

Course Outcome: CO501.3

Topic Name :- Minor and Micro irrigation.

1. Spread the point for selection of site of bandhara irrigation.
 2. State the situation where bandhara irrigation is preferred.
 3. Write advantages and disadvantages of bandhara irrigation .
 4. Define Percolation tank and state the point to be considered for selecting the site for percolation tank.
 5. Explain the requirements of site for percolation tank.
 6. Draw a layout of lift irrigation scheme .explain its function with components parts.
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Subject Name: WRE(22501)

Assignment No :- 5

Course Outcome: CO501.4

Topic Name :- Diversion headworks

1. Compare between weir and barrage .
 2. Draw a neat sketch of barrage with their components and enlist any two advantages and disadvantages.
 3. Write the function of head regulator, divide wall ,fish ladder ,scouring sluice.
 4. Draw neat sketch of diversion headwork.
 5. Give difference between weir and barrage.
 6. Enlist the types of weir and explain any one in brief.
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Subject Name: WRE(22501)

Assignment No :- 6

Course Outcome: CO501.5

Topic Name :- Canals

1. Design economical trapezoidal section of canal to carry 30m/s of water with bed slope 1m/km and side slope 1:1.5 take $N=0.012$.
 2. Define lining of canal state it's advantages.
 3. State eight purpose of canal lining.
 4. Explain point to be consider while fixing alignment of canal.
 5. Difference between contour canal and ridge canal.
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