

Project work on Spillway design:

Given below is data to be used for design of ogee shape spillway. The assignment is going to be done in groups of four students. The initial routing water level is at the crest level of the spillway.

- Given the following data, determine the head over the spillway (the design head) using levelpool routing method. Perform your calculations in MS.excel.
- Draw the inflow vs outflow graph in MS.excel.
- Perform the design of an ogee type of spillway.
- Plot the spillway drawing using AutoCad.
- Determine and fix also the freeboard requirement.

Elevation, m	Storage, MMC	PMF time, hr	Inflow, m ³ /s
1952.1	185	0	0
1953.1	193.75	5	0
1954.1	201.23	10	370
1955.1	209.05	15	1970
1956.1	219.55	20	1620
		25	920
		30	220
		35	70
		40	0
		45	0
		50	0
		55	0

Spillway length, m	Crest level of Spillway, m	initial H_d , m	length of approach channel, m	effective fetch length, km	wind speed, m/s	river bed level	number of bays	K_a	K_p
91	1952.1	4.5	11	6.5	17	1872.1	7	0.1	0.01