



Course Weekly Out

Course Instructor	Rokaia Abed Hussain				
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Title	Engineering Hydrology				
Course Coordinator	Theory				
Course Objective	Teach students the basics of hydrology and everything related to this science and its importance through its relationship to water resources projects.				
Course Description	As shown in weekly outline				
Textbook	Engineering Hydrology ,Second Edition Mc Graw hill ,New Delhi, K.Subramanya, 1997.				
References	Chow, V.T ,Hand book of applied hydrology ,Mc Graw hill ,New York. Hydrology for Engineering (Linsley).				
Course Assessment	Term Tests	Laboratory	Quizzes	Project	Final Exam
	35%	-	5%	-	60%
General Notes					



Course Weekly Out

Week	Date	Topics Covered	Lab. Experiment Assignments	Notes
1 st Semester				
1	02 Oct. 16	Introduction to Engineering Hydrology		
2	09 Oct. 16	Hydrologic Cycle		
3	16 Oct. 16	Weather And Climate		
4	23 Oct. 16	Probability in Hydrology and Plotting Position Method		
5	30 Oct. 16	Precipitation - Types of Precipitation - Measurement of Precipitation		
6	06 Nov. 16	Estimating Missing Precipitation Data		
7	13 Nov. 16	Double Mass Curve Analysis		
8	20 Nov. 16	Methods of Determination of Average Precipitation over area.		
9	27 Nov. 16	1 st Month Exam		
10	04 Dec. 16	Frequency of Rainfall		
11	11 Dec. 16	Hyetograph and accumulated rainfall		

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1 st Semester				
12	18 Dec. 16	Evaporation - Factors Controlling the Evaporation - Determination of Evaporation		
13	25 Dec. 16	Evaporation and Transpiration -ET Equations		
14	2 Jan. 17	Penman s equation		
15	08 Jan. 17	Infiltration -Measurement of Infiltration - Infiltration capacity.		
16	15Jan. 17	- Infiltration Indices Φ-Index and W-Index		
17	22 Jan. 17	Stream Flow		
18	29Jan. 17	2 st Month Exam		
End of 1 st Semester & Starting of Spring Holiday		05 Feb. 17 – 18 Feb. 17		
2 nd Semester				
19	19 Feb. 17	Stage-Discharge Relationship(Rating Curve)		



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2 nd Semester				
20	26 Feb. 17	Run off Run off -Rainfall Relationship .		
21	5Mar. 17	Hydrograph Analysis ,Components of Hydrograph		
22	12 Mar. 17	Hydrograph Separation , Synthetic Hydrograph		
23	19 Mar. 17	Unit Hydrograph, Conversion of Unit Hydrograph		
24	26 Mar. 17	S-curve		
25	02 Apr. 17	Flood Routing - River Routing -Reservoir Routing		
26	09 Apr. 17	-Gumble Distribution		
27	16 Apr. 17	-pearson Distribution		
28	23 Apr. 17	1 st Month Exam		
29	30Apr. 17	-Ground Water		



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2 nd Semester				
30	7May 17	Equation of Well in Non-Confined Aquifer		
31	14 May 17	Equation of Well in Confined Aquifer		
32	21May 17	Reservoir Sedimentation		
33	28 June 17	2 nd Month Exam		

Instructor Signature

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