VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY BURLA LESSON PLAN

Branch: Civil Engineering Section:

Semester: 2nd M.Tech Subject: GIS Applications in WRE

Class	Module	Topics to be Covered	Remarks / Sign
No.	No.		of Faculty
	т	Lutura de ation DC 0 CIC	Member
1	I	Introduction RS & GIS	
2	1	Scope of RS & GIS in water resources and environmental	
3	т	system	
3	I	Scope of RS & GIS in water resources and environmental	
4	I	system	
4	1	Scope of RS & GIS in water resources and environmental	
	T	system	
5	I	Scope of RS & GIS in water resources and environmental	
-	T	System	
6	I	Geomorphological mapping	
7 8	I	Hydrological mapping	
		Hydrological mapping	
9	I	Landuse mapping	
10	I	Landuse mapping	
11	II	Evaluation of water resources potential	
12	II	Rainfall-Runoff modelling using RS inputs	
13	II	Rainfall-Runoff modelling using RS inputs	
14	II	Flood studies	
15	II	Drought studies	
16	II	Drought studies	
17	II	Drought assessment and monitoring	
18	II	Command area studies, cropping pattern, crop condition	
19	II	Irrigation system performance	
20	II	Crop yield estimation	
21	III	Introduction of GIS	
22	III	Hydrology and Resources management	
23	III	Hydrology and Resources management	
24	III	Watershed development	
25	III	Watershed development	
26	III	Management options, inventory	
27	III	Management options, inventory, Q & A discussion	
28	III	Remote sensing in snow cover studies	
29	III	Remote sensing in snow cover studies	
30	III	Snowmelt runoff	
31	IV	Reservoir sedimentation	
32	IV	Erosion and deposition	
33	IV	Erosion and deposition	

34	IV	Catchment area treatment
35	IV	Catchment area treatment
36	IV	Estimation of sediment load
37	IV	Estimation of sediment load
38	IV	Estimation of sediment load
39	IV	Use of Sediment Models
40	IV	Use of Sediment Models
41		Revision classes
42		Revision classes
43		Revision classes
44		Revision classes
45		Revision classes

CLASS DIARY

Branch: Civil Engineering Section: A1

Semester: 4th B.Tech Subject: Hydraulics Lab

Class	Date	Topics to be Covered	Remarks / Sign
No.			of Faculty
			Member
1	09.01.2017	Study of Hydraulic Instruments	Completed/
2	16.01.2017	Determination of Metacentric height	Completed/
3	23.01.2017	Determination of Darcy Weisbach	Completed/
		coefficient for pipe friction	
4	06.02.2017	Verification of Bernoulli's Theorem	Completed/
5	13.02.2017	Determination of Coefficient of Discharge	Completed/
		for venturimeter	
6	27.02.2017	Determination of Coefficient of Discharge	Completed/
		(Cd) for Open channel flume	
7	10.04.2017	Determination of Chezzy and Manning's	
		constant in Open Channel flume, Forced	
		Vortex	
8	17.04.2017	Determination of Cd of orifice meter,	
		Explanation of Laminar and Turbulent	
		flow using Reynold's Test Apparatus	
		Report Submission and Viva	

CLASS DIARY

Branch: Civil Engineering Section: A2

Semester: 4th B.Tech Subject: Hydraulics Lab

Class	Date	Topics to be Covered	Remarks / Sign
No.			of Faculty
			Member
1	11.01.2017	Study of Hydraulic Instruments	Completed/
2	18.01.2017	Determination of Metacentric height	Completed/
3	25.01.2017	Determination of Darcy Weisbach	Completed/
		coefficient for pipe friction	
4	08.02.2017	Verification of Bernoulli's Theorem	Completed/
5	15.02.2017	Determination of Coefficient of Discharge	Completed/
		for venturimeter	
6	22.02.2017	Determination of Coefficient of Discharge	Completed/
		(Cd) for Open channel flume	
7	15.03.2017	Determination of Chezzy and Manning's	Not done/ no
		constant in Open Channel flume	power
8	22.03.2017	Determination of Chezzy and Manning's	Completed/
		constant in Open Channel flume	
9	29.03.2017	Forced Vortex	Completed/
10	05.04.2017	Determination of Cd of orifice meter	Completed/
11	12.04.2017	Explanation of Laminar and Turbulent	
		flow using Reynold's Test Apparatus	
		Report Submission and Viva	

VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY BURLA <u>CLASS DIARY</u>

Branch: Civil Engineering Section:

Semester: 2nd M.Tech Subject: Computational Lab

Class	Date	Topics to be Covered	Remarks / Sign
No.			of Faculty
			Member
1	06.01.2017	Introduction to computations	Completed/
2	20.01.2017	Solving Examples using Excel and MATLAB	Completed/
3	10.02.2017	Parameter estimation through regression	Completed/
4	17.02.2017	Cropping water requirement using CROPWAT	Completed/
5	03.03.2017	Determination of design flood	Completed/
6	17.03.2017	Determination of design flood	Completed/
7	24.03.2017	Watershed modelling- general practices	Completed/
8	31.03.2017	Watershed modelling- Unit Hydrograph model	Completed/
9	07.04.2017	Watershed modelling- Synthetic Unit Hydrograph	Completed/
		model	
10	19.04.2017	Streamflow analysis and simulation	
		Report Submission and Viva	