

CE 363 : Engineering Hydrology

Spring 2011

Class started on 17. 04. 2011

Course Teacher

Dr. M. R. Kabir

Lecture Plan

- Lecture 1-2 Introduction, Definition of Hydrology, History, Hydrologic related works.
- Lecture 3 Hydrologic Cycle, Weather Hydrology, Atmospheric Circulation.
- Lecture 4 Front, Storms, Water Vapor, Climate of Bangladesh, Residence Time.
- Class Test – 1**
- Lecture 5 Water vapor in a static atmospheric column, Precipitable Water.
- Lecture 6 -11 Precipitation
- Class Test – 2**
- Lecture 12 – 14 Evaporation
- Lecture 15 – 16 Evapotranspiration

Lecture 17 Initial Loss, Infiltration, Φ – Index

Class Test – 3

MID TERM EXAMINATION

Lecture 18 Runoff

Lecture 19 – 22 Hydrograph

Lecture 23 – 26 Unit Hydrograph

Class Test – 4

Lecture 27 Synthetic Unit Hydrograph

Lecture 28 – 30 Flood Routing

Lecture 31 – 33 Floods

Class Test – 5

Lecture 34 – 35 Stream flow Measurement

Lecture 36 Review Class

FINAL EXAMINATION

Reference Books

1. Engineering Hydrology
---- Linsley
2. Applied Hydrology
---- VT Chow
3. Engineering Hydrology
---- Subramanya
4. Introduction to Hydrology
---- Viessman
5. Hydrology ---- Martin Wanielista

Assessment

- ❑ Class Assessment 30%
(attendance : 10, Min. 4 class test : 20)
- ❑ Mid Term Examination 20%
- ❑ Final Examination 50%