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CE 394K.2 Hydrology, Lecture 1 Introduction to Hydrology

LECTURE NOTE COURSE CODE BCE1504

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PptEngineering hydrology enables us to

find out the relationship between a

catchment's surface water and

groundwater resources; ... (mean of 30

years annual ppt) Measurement of

Precipitation Point Data-Gauges ...

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Branches and Divisions of Hydrology.

Hydrology.Engineering Hydrology Class

Lectures and Notes ...CE 374K Hydrology

- Lecture 1 Syllabus, sequence of topics

Hydrology as a science and as a

profession Hydrologic cycle and world

water balance Water as a physical  
substance Water data sharing (separate  
Powerpoint presentation) Readings: For  
today - Applied Hydrology and Chapter 1  
For Thursday, Applied Hydrology,  
Sections 2.1 and 2.2.CE 394K.2  
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Hydrology Helps in the following ways:  
Hydrology is used to find out maximum  
probable flood at proposed sites e.g..  
Dams. The variation of water production  
from catchments can be calculated and  
described by hydrology.Hydrology |  
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GEOS 4430 Lecture Notes: Introduction to Hydrogeology

**HYDROGEOLOGY LECTURE NOTES**  
 HYDROGEOLOGY LECTURE NOTES-2.3-LR.DOCX PRINTED ON 5 MAY 2012 1 Chapter 1 - Introduction to Hydrogeology The Properties of Water Pure water (H<sub>2</sub>O) is: - Clear, colorless - No discernable taste or smell - At 1 atmosphere - Melting point: 0 °C; Boiling point, 100 °C

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- Much of hydrology deals with precipitation – How much? – How frequently/infrequently? – What form? – How quickly? ... Use hydrograph to design engineering structure. Title: Introduction to Hydrology for Civil EngineersIntroduction to Hydrology, Part 21.72, Groundwater Hydrology Prof. Charles Harvey Lecture Packet #1: Course Introduction, Water Balance Equation 61 39 land 100 on land 424 Surface runoff 385 ocean Where does water come from? It cycles. The total supply doesn't change much. Groundwater recharge Infiltration

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Hydrogeology The Properties of Water

Pure water (H<sub>2</sub>O) is: - Clear, colorless -

No discernable taste or smell - At 1

atmosphere - Melting point: 0 °C; Boiling

point, 100 °C

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Ground Water Hydrology: the study of the origin, distribution, movement and physical/chemical properties of ground water. A subset of hydrology, the study of all terrestrial waters. Surface Water Hydrology: the study of subaerial waters (in contact with the atmosphere), excluding oceans. Civil engineers usually mean "lakes and bays", geologists ...

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