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1. Lifting and Cooling - Lifting of air mass to higher altitudes causes cooling of air. 2.

Condensation - conversion of water vapor into liquid droplets. 3. Droplet Formation - Growth of

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droplets is required if the liquid water present in a cloud is to reach ground against the lifting mechanism of air.

## **Engineering Hydrology Class Lectures and Notes**

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### INTRODUCTION

Groundwater is the water that occurs in a saturated zone of variable thickness and depth below the

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earth's surface. It is therefore the water beneath the earth's surface from which wells, springs, and groundwater runoff are

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Engineering Hydrology  
Class Lectures and  
Notes Engineering  
Hydrology Helps in the  
following ways:

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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.

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# TOPICS: 1; Course

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Introduction, Water  
Balance Equation : 2:  
Aquifers, Porosity, and  
Darcy's Law : 3:  
Hydraulic Head and  
Fluid Potential : 4:  
Continuity and Flow  
Nets : 5: Groundwater  
Flow Patterns : 6:  
Groundwater/Surface  
Water Interactions : 7:  
Transient Systems and  
Groundwater Storage :  
8: Pump Test Analysis :  
9



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**Groundwater  
Hydrology | Civil and**

...

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## **Engineering Hydrology Lecture Notes**

Finding area of  
watershed/basin  
Method 1: Use  
planimeter around the  
boundary Method 2:  
Trace the basin and  
count area manually

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Method 3: Use of GIS  
package 1.2

Applications of  
Hydrology in  
Engineering Correct  
assessment of flows for  
hydropower, irrigation,  
drainage and water  
supply projects.

Determination of  
maximum expected  
flow at dam, reservoir,  
spillway, bridges,  
culverts and city  
drainage system.

Determination of  
minimum reservoir

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capacity sufficient to  
meet the hydropower,  
irrigation ...

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hydrology. Lecture 2:  
Philosophy of  
mathematical models  
of watershed hydrology  
(contd.) Module 3:  
Hydrologic Analysis.  
Lecture 1: Watershed  
and rainfall-runoff  
relationship. Lecture 2:  
Watershed and rainfall-  
runoff relationship  
(contd.)

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Advanced Hydrology**

Hydrology is an

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indispensable tool in planning and building hydraulic structures. Hydrology is used for city water supply design which is based on catchments area, amount of rainfall, dry period, storage capacity, runoff evaporation and transpiration.

## **Water Resources Engineering - VSSUT**

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focuses on Indian  
scenario of water  
resources with  
orientation to tropical  
climate.

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LECTURE #5  
HYDROLOGIC  
PROCESSES,  
PARAMETERS, AND  
CALIBRATION. 2 of 35  
THE HYDROLOGIC

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CYCLE. 3 of 35

HYDROLOGY -  
HYDROLOGIC  
COMPONENTS

Hydrologic

Components: Rainfall  
or Snow Interception

Depression storage

Evapotranspiration

Infiltration Surface

storage Runoff

Interflow Groundwater  
flow

**HYDROLOGIC  
PROCESSES,  
PARAMETERS, AND**

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These Hydrology and Irrigation (Water Resources Engineering) Study notes will help you to get conceptual deeply knowledge about it. We are here to provides you the Best Study Notes from Best coachings like Made easy, ACE academy etc.. and Lecture notes from best institutions like MIT (Open Course), IIT (NPTEL) & TuDelft

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understand concepts to  
high ...

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(.pdf) Lecture 7:

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Lecture 9: Drainage

Basins and Water

Balance (.pdf) Lecture

10: River Channels

(.pdf)

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**GLGY415W03**

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Problem Solving in  
Engineering Hydrology  
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Isam Mohammed Abdel-  
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long-term record to the  
2m level.

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Hydrology is a subject

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in civil engineering domain which contributes a minimum of 10% in exams of any pattern. The lecture is to discuss.. water cycle in hydrology residence time in hydrology cycle

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