## PTE 517 Dr. Ershaghi ershaghi@usc.edu 2-4:40 Thursdays

## **Testing of wells and Aquifers**

Date	Торіс
21-Jan	Introduction to the Well Testing Concepts
28-Jan	Solution to the Diffusivity Equation
4-Jan	Superposition in Time and Space
11-Feb	Pressure Buildup, Drawdown and Formation Damage
18-Feb	Layered Composite and Faulted Reservoirs
25-Feb	First Exam
4-March	Gas Well Testing/Isochronal Tests
11-March	Naturally Fractured Reservoirs -Hydraulically Fractured Wells
18- March	Horizontal Wells/Tight Sands/Unconventional Reservoirs
25-March	Interference and Pulse Tests/Ground Water Pressure Testing
1-Apr	Second Exam
8-Apr	Injection Well Testing/DST/Pumping Wells
15-Apr	Convolution/ Deconvolution
22-Apr	Numerical Well Te4sting/ Computer Aided Methods/Use of Artificial Intelligence
29-Apr	Project Presentation
6-May	Final Exam 2-4 PM
Grading	

HW 20% Exams 25% each Project 5 % Reading materials including book chapters will be assigned as supplemental references.