

**King Saud University**  
**College of Engineering**  
**Petroleum and Natural Gas Engineering**  
**PGE 516: Advanced Natural Gas Technology**  
**First semester 1436 – 1437 (2015 – 2016)**

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**References:**

- 1- Natural Gas Production, Chi U. Ikoku, Krieger Publishing Company, Malabar, Florida, 1992
- 2- Gas Treating Absorption Theory and Practice, DAG A. EIMER, John Wiley & Sons Ltd, 2014
- 3- Natural Gas Extraction to End Use, Sreenath Borra Gupta, InTech Croatia, 2012
- 4- Advanced Natural Gas Engineering, Xiuli Wang, Gulf Publishing Company, Houston Texas, 2009
- 5- Advances in Natural Gas Technology, Hamid A. Al-Megren, InTeOp, 2012
- 6- Fundamentals of Natural Gas Processing, L. L. Faulkner, Taylor and Francis Group LLC, 2006

**Description:** Phase relations of natural gas systems (ternary diagrams), Mathematical representation of phase behaviour, gas analysis by spectrometry and chromatography, design of gas pipelines, advanced technology of underground storage of natural gas.

**Evaluation:**

Home works:	<b>10 %</b>
Mid-term exam:	<b>20%</b>
Term project	<b>20%</b>
Final Exam:	<b>50 %</b>

**Office Hours:** TBA