

**MINI CURSO: INTERPRETATION OF 2D/3D
SUBSURFACE SEISMIC DATASET AND
INTRODUCTION TO PROSPECT ANALYSIS****Disciplina “Tópicos Especiais em Geofísica Aplicada”**

O curso será ministrado no período entre 2 a 10.05.2019, em período integral, no Instituto de Geociências da USP.

Prof. Resp.: Prof. Dr. Luigi Jovane and Prof. Dr. Andre Negrão

Prof. Convidado: **PROF. DR. DAVID IACOPINI (UNIVERSITY OF ABERDEEN)**

Nº de créditos: 04 (quatro) - **Tipos de atividades:** aulas teóricas e práticas.

Público Alvo: Alunos regularmente matriculados em cursos de pós-graduação.

EMENTA/CONTEÚDO:

Intro to fundamental of seismic interpretation, sonic log and project analysis using 3D and well dataset from North Sea. Introduction to the Petrel platform for seismic interpretation including QC of well and seismic data. The following principles will be discussed and introduced: concept of contrast of impedance, reflectivity, Gardner law; seismic ties using the well log data with some theory and practical exercises aiming at the reconstruction of reflectivity using sonic log data and Gardner law. Determine prospect resource volume estimates across the mapped area; Discussion of the geological risk and uncertainty in exploration prospects.

OBSERVAÇÃO:

After a short practical introduction to the concept of reflectivity and fundamental of petrophysics the students will be involved in 4 days practical exercise using the **Petrel** platform aiming at: upload of well log, 3D seismic data and QC of the dataset; Mapping main horizons and fault structure in 3D data; Amplitude calibration using well data; recognition of play and trap structure using well log and mapped structures; Fundamental of prospect analysis and STOIP estimation. The final day will give an overview of the North Sea Petroleum system - The Gullfaks field, with final discussion using the mapped data. Recursos: CAPES “Ciencias do Mar II”.



Inscrições: na Secretaria de pós-graduação do
IGc de 08.04 a 28.04.2019

andrenegrao@usp.br

Nº máximo de alunos: 17



Programação das aulas

	Quinta-feira 02/05	Sexta-feira 03/05	Segunda-feira 06/05	Terça-feira 07/05	Quarta-feira 08/05	Quinta-feira 09/05	Sexta-feira 10/05
9-12h	Aula	Aula	Aula	Aula	-----	Aula	Aula
14-17h	-----	Aula	-----	Aula	-----	-----	Aula