



**Professional Bachelor of Science
Licence Exploration and Exploitation pétrolières**

AIMS

To Train Managers well-versed in field applications :

- Specialized in Instrumentation and Data Acquisition and Processing for the Production and the new Drilling Processes
- With skills in Geosciences (geology, geophysics and reservoirs)
- With good linguistic abilities for Off-shore jobs
- Who can adapt quickly to new technologies

SYLLABUS

Scientific and Technological Teaching

<p>DATA ACQUISITION Measurement and data acquisition techniques Real-Time remote measurements Real-time programming Noise sources and errors in numerical systems LabView programming</p> <p>ACOUSTICS Architectonic acoustics Noise characterisation Seismic exploration</p> <p>ELECTRONICS - ELECTROTECHNIQUE Analogical and numerical electronics Power electronics</p> <p>MATHEMATICS AND SIGNAL PROCESSING Fourier series and Fourier transform Convolution, correlation, cross-correlation of a signal with itself Sampling Digital signal processing and filtering (notions)</p> <p>HYDRAULICS and FLUID MECHANICS Incompressible fluid dynamics Real fluids Pumping network systems</p> <p>MECHANICS and MATERIALS Vibratory Mechanics Strength of materials Corrosion</p>	<p>PETROLEUM GEOLOGY Hydrocarbon Genesis Storage within sediments Exploration – Prospecting methods</p> <p>GEOPHYSICS Log Tools (Facies interpretation and Log correlations) Geophysics data acquisition and treatment</p> <p>GEOLOGY Tectonic structures Sediment areas and systems Rock properties</p> <p>CHEMISTRY Hydrocarbons in crude oil Spectroscopic and separative analysis methods</p> <p>HYGIENICS and SECURITY International standards</p> <p>ADDITIONAL BUSINESS SKILLS English Management – Project Management Corporate law</p>
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PETROLEUM PROFESSIONAL TRAINING

Seismic techniques and Signal processing
Drilling and wells
Analysis and drilling parameters
New technologies

Partners :

Schlumberger, CGG, Saltel industries group
Schlumberger,, Vermilion Energy, Entrepouse contracting, Dietswell.....