

	<b>Formal name</b>	<b>Course</b>	<b>Layouts</b>	<b>Max student capacity</b>	<b>Assignable Area (Sq. m.)</b>
<b>Petroleum Engineering</b>	<b>Drilling Fluid and Cementing Laboratory</b>	<b>PET12226 Drilling Fluid (+Lab) (2cr) &amp; PET14232 Cement (+Lab) (2cr)</b>	<b>Lab</b>	<b>24</b>	<b>110</b>

Location: 1<sup>st</sup> floor, PVU

Link: <http://www.pvu.edu.vn/en/departments/petroleum-faculty/petroleum-engineering/labs/pe-labs/2-drilling-fluid-and-cementing-laboratory>



**Entrance**



**Lab layout**



**Device: Scale Balance digital**

Function: Measure weight with high accuracy for experiments



**Device: Model 653B Resistivity Meter**

Function: Measure the resistivity of fluids



**Device: Resistivity Meter Model 88C**

Function: Measure drilling fluid resistivity



**Device: Retort 10ml Oil and Water Kit Model 871**

Function: determine the quantity of liquids and solids in a drilling fluid



**Device: Fann 35SA viscometer**  
Function: Measure drilling fluid viscosity



**Device: Low Temperature (LPLT) Filter Presses**  
Function: Determining the filtration properties of drilling muds and cement slurries



**Device: HPHT Filter Presses**  
Function: Evaluating the filtration properties of drilling mud at high temperatures



**Device: Balance Density TruWate Model 141**  
Function: Measuring the absolute density of a fluid sample



**Device: Constant Speed Mixer Model 686CS**

Function: Mix cements to comply with American Petroleum Institute (API) Spec 10A



**Device: Multi-Mixer® Model 9B**

Function: Mixing of drilling fluids in preparation for laboratory tests of mud materials



**Device: Circulating bath 60 Celcius**

Function: Maintain constant temperature of samples



**Device: Circulating bath 36 Celcius**

Function: Maintain constant temperature of samples



**Device: Cement mold**

Function: Create the shape the finished concrete



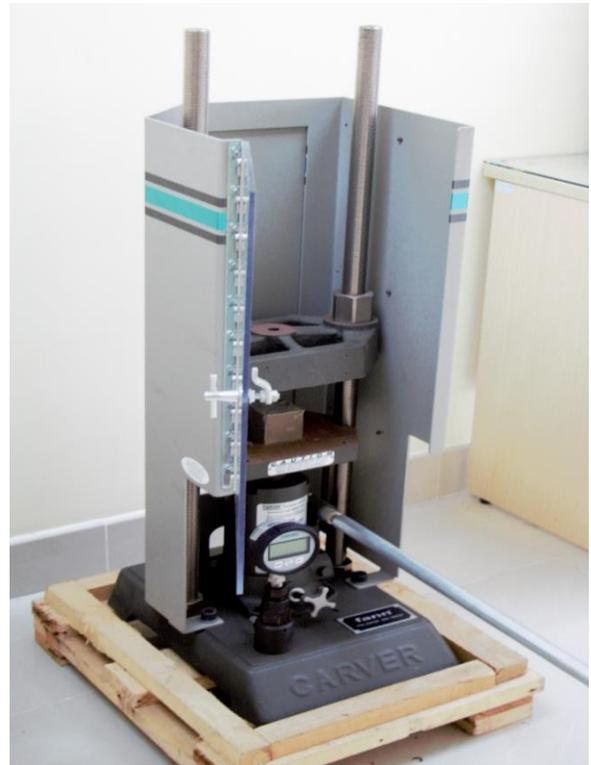
**Device: Model 140 Mud Balance**

Function: Determination of fluid density



**Device: HPHT Consistometer Model 290**

Function: Measure cement slurry viscosity or consistency under elevated



**Device: Compressive Strength Tester**

Function: measuring the maximum amount of compressive load a material can bear before fracturing