

256381

Location:	Petroleum Lab and CCS
Related Course:	MN 381
Equipment Name:	Optical tensiometer
Studying Topic:	Interfacial tension and contact angle measurements



Components:	Optical tensiometer: Attension®Theta flex Water bath: Julabo 200F Desktop computer
Instruction:	An optical tensiometer is an image-based instrument used to measure interfacial properties of liquids and solids. It operates by capturing high-resolution images of liquid or solid interfaces and analyzing their shape to extract physical parameters using the principles of Young–Laplace theory.

Location:	Petroleum Lab and CCS
Related Course:	MN 381
Equipment Name:	Bench top permeameter: BP-350
Studying Topic:	Permeability measurement



Components:	<p>Water bath: Lauda eco RE415G</p> <p>Mass flow controller</p> <p>HPLC Pump: ReaXus LS Class</p> <p>Hydraulic pump: Enerpac P391</p> <p>Core-flooding setup: Vinci technology</p>
Instruction:	<p>A permeameter is used to measure the permeability of a core sample. After injecting the desired fluid or gas through the sample, the pressure drop across the core is recorded. Permeability is then calculated using Darcy's law.</p>