

## Master Thesis Brief Description

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<b>Thesis Title</b>	<b>Thermochemical assessment of fossil fuels</b>
<b>Programme of Studies</b>	MSc in Oil and Gas and Offshore Engineering
<b>Course</b>	MOE 518 Master Thesis
<b>Area of Study</b>	Sustainable Energy Technologies – Fossil Fuels Assessment
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<b>Supervisory Committee</b>	Dr Chris Christodoulou, Professor, Mechanical Engineering Department Dr Antonis Papadakis, Ass. Professor, Electrical Engineering Department
<b>Semester</b>	Spring Semester 2015
<b>Short Description</b>	The performance of chemical analysis for the thermo-chemical characterization of fossil fuels is a key process in the petrochemical industry. This analysis can be applied both at the point of extraction of fossil fuels, as well as in other parts of the chain of production and distribution of liquid and gaseous fossil fuels. The procedures followed are based mainly on international and European standards for any type of analysis. The aim of this work was the presentation of the testing procedures that are followed as an international practice for the thermo-chemical characterization of liquid and gaseous fossil fuels. In this work, the equipment and the procedures that are applied for this purpose were presented. A comparative analysis was performed between procedures that are followed in Europe and internationally. The necessary infrastructure that will need to be developed in Cyprus in the next years in order to enable the appropriate measurements, as well as a description of potential labour market, which can be developed in this area were presented.