# Allegato 1 all'Avviso 45/2016

## Master Petroleum Engineering and Operations A.A. 2015/2016

## ENERGY ECONOMICS AND SUSTAINABILITY MODULE

#### Programme

The energy picture Introduction Historical trends and best-fit curves The Energy demand forecast formula Energy data sources Energy indicators

The energy supply Energy resources Energy mixes Energy corridors

Security of supply and modelling Geopolitical indicators Energy modelling

The sustainability concept Sustainability in the oil&gas sector Energy and sustainability metrics: LCA

Coupling economics and sustainability

LCA - Some fundamentals The 4 phases Case studies Externalities

### Notes

This is a tentative programme over the five days.

Exercises, both explained by the teacher and solved by the students, can be provided for virtually all of the topics.

No homework will be asked during the week.

Comprehensive references will be provided for self extra preparation. No written notes are foreseen. The updated slides shown during the lectures will be made available to the students day by day.