Thesis Title Programme of Studies Course Area of Study Student's Name Students Reg. Number Supervisor Supervisory Committee	Design of pipelines network for natural gas supply in Cyprus BSc in Mechanical Engineering, Stream Oil and Gas, Frederick University ASOG 405 Senior Project Processes Modelling and Simulation Charalampos Charalampous 8512 DrIng. Paris A. Fokaides, V. Lecturer, Civil Engineering Department Dr Chris Christodoulou, Professor, Mechanical Engineering Department Dr. George Karagiorgis, Assoc. Professor, Mechanical Engineering Department ment
Semester	Spring Semester 2017
Short Description	The scope of this study is to calculate the pressure drop in each pipeline which will be used to connect the three Electricity Stations (Vasiliko, Moni, Dekelia), by changing the diameter and keeping the upstream pressure constant, according to the data collected by DEFA for the compressor station to be installed at Vasiliko region. The calculations procedure was performed with the use of formula Penhandle A using excel spreadsheets, and the boundary conditions selected, presented the natural gas network which is anticipated to be developed in Cyprus in the following years. The optimal design of the network was defined based on the pressure drop and the quantities that will need to be delivered through the network, according to an energy demand projection conducted within this study.