## **ENERGY** as an introduction to engineering jobs in :

## Production, transportation and distribution, energy efficiency

		minor lecture	Major lecture	minor TU–EX	Major TU-EX	Total Major	Ind. work	Possible projects minor: 40h, Major: 100h
ISSUES & PROBLEMS	Economic, political, social and ethical.	4h p				4h		m: energy policies of countries and companies
PRODUCTION	Energy from oil & gas : Operation	8h p						
	Renewable energy: presentation of the different current and future sources.	8h p		8h i		24h		M: Dimensioning
TRANSPORTATION & DISTRIBUTION	HV Electricity network: lines and sub-stations LV Electricity network: HV/LV sub-stations, customer connection, protection of people and property.	8h <mark>p</mark>		16h i		24h		
ENERGY EFFICIENCY	Approaching energy efficiency by case studies. Improving energy performance of products, buildings and services. Improving production and distribution efficiency.	4h p	+ 12h p	8 h i	+ 16h i	40h		M: energy audits M: simulations
REGULATIONS & STANDARDS	Safety regulations  Energy management (NF IN 16001 standard)	4h p				4h		
		36h	+ 12h	32h	+ 16h	96h		
		i Internal p Partner						