



UNIVERSIDADE FEDERAL DE OURO PRETO
PRÓ-REITORIA DE GRADUAÇÃO
PROGRAMA DE DISCIPLINA



Name of the course in Portuguese: Planejamento Energético Integrado Name of the course in English: Integrated Energy Planning		Code: PRO556
Department's name and acronym: Department of Production Engineering		Academic unit: Escola de Minas
Term load 60 hours	Theoretical load per week 2 hours/class	Practical load per week 2 hours/class
Course description: Fundamentals of Energy Planning; Techno-economic analysis of energy systems; Environmental and social aspects for modelling energy systems; modelling energy systems; Energy Models – HOMER, LEAP;		
Course content: <ol style="list-style-type: none">1. Fundamentals Energy Planning2. Introduction to Energy Analysis3. Techno-economic analysis of energy systems4. Environmental and social aspects for modelling energy systems;5. Modelling energy costs and tariffs6. Modelling technical aspects of energy systems7. Energy Model: HOMER8. Energy Model: LEAP		
Basic bibliography: EMPRESA DE PESQUISA ENERGÉTICA [EPE]. Aspectos Fundamentais de Planejamento Energético. 37 Páginas. Rio de Janeiro, EPE: 2005. SWISHER J, JANNUZZI G, REDLINGER R. Tools and Methods for Integrated Resource Planning: Improving Energy Efficiency and Protecting the Environment. 270 Páginas. Roskilde, UNEP: 1997. BLOK C. Introduction to Energy Analysis. 2 ^a Edição – 256 páginas. Amsterdam, Techne Press: 2009.		
Complementary bibliography: GELLER, H. S. Revolução Energética – Políticas para um futuro sustentável. Rio de Janeiro: Relume Dumará, 2003 EMPRESA DE PESQUISA ENERGÉTICA [EPE] – Balanço Energético Nacional. de Janeiro: EPE, 2012 LEITE, A. D. A energia do Brasil. Rio de Janeiro: Elsevier, 2007.		