

Discipline proposal to the PhD Program in Bioenergy (Usp, Unicamp e Unesp)

Discipline name: Advanced Topics in Biomass Production for Bioenergy

Period: 15 weeks (30h) – Thursday evening – 14h to 16h

Professor: Saulo Philipe Sebastião Guerra and Humberto de Jesus Eufrade-Junior (FCA/Unesp - Botucatu, Instituto de Pesquisa em Bioenergia- IPBEN)

Program

Objective

Aggregate the technical knowledge of forestry biomass production and the characterization of its differences with the economic decision making process that characterizes the management and administration of companies and projects.

Motivation

This course was designed for developed researches that interdisciplinary integrate the knowledge of forestry biomass for energy, innovation and production.

Content

- 1) World, Brazilian and Sao Paulo State energetic matrix
- 2) Forestry biomass management
- 3) Physical and chemical of wood fuels
- 4) State of the art about forest operations in Brazil

Bibliography

- 1) WEST, P. W. Growing Plantation Forests. Berlin: Springer, 2006, 304 p.
- 2) REN21. Renewables 2019 Global Status Report. Paris, 2019, 336p.
- 3) Government of the State of Sao Paulo. Sao Paulo State Energetic Matrix – 2035. Sao Paulo state Energy Secretariat. Sao Paulo, 2013. In: <http://www.energia.sp.gov.br/>
- 4) BRAND, M. A. Energia de biomassa florestal, Lages-SC, Interciência, 2010. 114p.

papers – recent reviews of the literature

written test – questions we will propose (6 points)

monograph concerning forest biomass or forest operation you are using in (or related to) your thesis (4 points)