

COURSE TITLE:

ENERGETICS AND ENVIRONMENT

COURSE DESCRIPTION:

A considerable fraction of the environmental problems are connected with the huge energy production, which is a prerequisite of sustainable maintenance of human societies. The course deals in details of the energy production methods of human societies. We discuss the basics of the energetic, we explain the energy production methods presently used. It will be pointed out what are the weaknesses of the fossil based energy consumption. The renewable energy production methods will be explained in details.

LITERATURE:

Kiss Ádám: Energetics and environment, lecture notes, available on the Internet

A. Fainberg and R. Howes: The Energy Sourcebook: a Guide to Technology, Resources and Policy, Springer Verlag (1991)

Egbert Boeker, Rienk van Grondelle: „Environmental Physics”, Wiley and Sons, 1999, ISBN 0 471 997803.

B. Diekmann, K. Heinloth: „Energie”, Teubner Studienbücher, 1997, ISBN 3-519-13057-2 (in German).

TEACHER:

Ádám Kiss

professor