

Tárgy neve: Electrical energetics I.	NEPTUN-kód:	Óraszám: ea+gy+lb X+X+X	Kredit: Köv :
Tantárgyfelelős:	Beosztás: associate professor	Előkövetelmény:	
Ismeretanyag leírása:			
<p>Process of electricity supply, quality requirements of electric power supply, transportation of electrical power, TSO, Hungarian power system, ENTSOE; Energy conversion basics, Synchronous machines – operation concept, Salient rotor machine and round rotor machine, torque and load angle; Synchronous machine steady state operation, Transformers, equivalent circuit of transformers; Induction motors, equivalent circuit of induction motors, torque-slip characteristic, start-up process, RPM control; Exercise – numerical calculation of single problems; DC machines, Nuclear Power Plants Transmission line – handling of star point; Equivalent circuit of transmission lines – inductance; Three-phase transmission line inductance, capacitance, Cables; Dimensioning of conductors (voltage drop only); Electric switchgears; Network faults Exercises - Numerical calculation of short circuits</p>			
Irodalom:			
1. Leonard S. Bobrow: Fundamentals Of Elctrical Engineering. Oxford University Press, 1996.03.01			
Megjegyzés:			