EEPE 7356 Computer Aided Design of Electric Machines

EEPE 7356 Computer Aided Design of Electric Machines (3 semester credit hours) Principles of force generation and distribution of electromagnetic forces within induction, permanent magnet synchronous, and reluctance machines. Introduction to finite element analysis of electric machinery. Electromagnetic, structural, and thermal fields in electric machines. Multi-physics analysis of electric machines. Optimization methodologies in multi-objective problems. Applications of artificial intelligence methods for optimal design of electric machinery. Prerequisite: EEPE 6356. (3-0) T (2016-02-06 00:37:27)