

### **Package of Appliance Software**

This credit module aims to instill for students' knowledge, skills and abilities in using applications and software packages solving complex engineering problems both during the learning process and during student work in power engineering field and electrical networks and systems in particular.

Studying this credit module by students, it is planned to acquaint students with the peculiarities of work and methods of application in the educational process and engineering of the computer algebra system "MathCAD" (version for review, developer - Parametric Technology Corporation, USA). This credit module is based on credit modules of the disciplines such "Theoretical foundations of electrical engineering", "Electrical machines", "Mathematical models of power systems", "Electrical systems and networks" and "Regulation of electrical systems".

This credit module aims to provide the student with knowledge, skills and abilities in the field of solving problems in the calculation and optimization of modes of operation of electrical networks and power systems using the computer algebra system "MathCAD". The credit module aims to prepare students for professional activities in electrical systems.

"Package of Appliance Software" belongs to the cycle of disciplines of free choice by students.