

**MOLECULAR MODELING AND STATISTICAL SOFTWARE IN MODERN ORGANIC CHEMISTRY TEACHING – STEP FORWARD TO MODERNIZATION OF UNDERGRADUATE STUDIES AT ENGINEERING FACULTIES**

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The application of computers and software is becoming inevitable in modern study curriculum at majority of faculties in the World. The application of computers in organic chemistry teaching has significantly contributed to the solution of the problems related to the presentation of statistical approaches in chemistry in a simple and understandable way. It also has encouraged the creativity and innovation of both teachers and students. The present study describes the analysis of the possibilities of application of different statistical software in basic and advanced organic chemistry teaching on undergraduate level at engineering faculties, the easy-to-understand software approaches in modern organic chemistry and visualization methods of molecular structures. This study also presents the analysis and interpretation of possible outcomes of these approaches in teaching.