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**ARCHITECTURE OF INTERUNIVERSITY'S DIGITAL NETWORK IN APPLIED
SCIENCE THEMES AND ECONOMICS IN MOLDOVA «CRUNT»**

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Abstract: *This paper deals with the architecture of interuniversity's Moodle eLearning network developed in accordance with the TEMPUS project «Creating Digital Network Universities in Applied Science Themes and Economics in Moldova (CRUNT)». The objectives of this project are to create an interuniversity network with a modernized infrastructure, to support effective modern online learning platforms, creation of a technological center endowed with computers, audio/video devices, assisted by modern software to produce online courses efficient and attractive to students and development of a set of pilot courses in different fields, which will be applied at the partner universities.*

Keywords: *computer-aided instruction efficiency, Moodle network architecture.*

I. INTRODUCTION

Traditionally the university does not provide sufficient knowledge throughout life any more, its role being to form value systems that do not become outdated, provide general knowledge and basic assumptions, to create prerequisites to adapt to future changes. Continuous training currently takes place in a little or no institutionalized conditions. The current trend is to organize different institutional forms for continuous training, more flexible than large universities. In the modern era, information technology has made strong mark on education, revolutionized the manual based educational system. Computers evolved from a high study subject to an indispensable training tool, regardless of the field. Design and large-scale introduction of computer aided training systems pursues several objectives that come to greet modern training problems: independent study, alternative forms of teaching, reduction of time to access information, improving the quality of learning in general, the increased number of students by eliminating the physical space restrictions imposed by the classroom. In the virtual study environment, an unlimited number (besides the technical performance of the system) of students can participate simultaneously in the same activities. Computer aided training systems solve many problems and bring benefits, but also raise new problems to be solved. Among the advantages of these systems are that the use of the eLearning increases student independence, the virtual environments can lead students in a virtual world where they can practice the already studied material, increase students' motivation and interest, a well-designed program can increase the quality and quantity of work, it leads to the reductions in teaching time and the rate of failure in examinations.

This paper deals with the architecture of interuniversity's Moodle eLearning network developed in accordance with the TEMPUS project «Creating Digital Network Universities in Applied Science Themes and Economics in Moldova (CRUNT)». The objectives of this project are to create an interuniversity network with a modernized infrastructure, to support effective modern online learning platforms, creation of a technological center, endowed with computers, audio/video devices, assisted