

Tenders supported by the European Union on the Faculty of Military Sciences and Officer's Training of the National University of Public Service

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The Faculty of Military Sciences and Officer's Training of the National University of Public Service (FMSOT) was an independent higher educational institution, called "Zrínyi Miklós National Defence University", before the National University of Public Service has been established on 1st January 2012.

On the FMSOT the tendering activities have been always of a great importance and in this course it won many tenders supported by the EU.

Most important among these were the projects, named "KMOP 4.2.1/B" (infrastructure development required for improving standards of higher education and info-communication technology); "TAMOP-4.1.1-08/2/KMR" (development of institutional and student services in the higher education); "TÁMOP 4.2.3-08/1/KMR" (admitting and dissemination of scientific achievements); "TÁMOP-4.2.1.B-11/2/KMR-2011-0001" (research of critical infrastructure); and "TÁMOP-4.2.2/B-10/1-2010-0001" (risks and answers in the field of talent maintenance: "KOVÁSZ").

Regarding to the above mentioned, the tasks and goals of the first three tenders where successfully reached by the FMSOT.

The project "KMOP 4.2.1/B" (infrastructure development required for improving standards of higher education and info-communication technology) – co-funded by EU's Regional Development Fund – went on with success from 01st January 2008 until 30th June 2010, with the aim of "developing the information technology system of ZMNDU by server-consolidation, by extending network bandwidth, by assurance of WIFI coverage, and by providing secure VPN-based access".

As a result of this project, standards of information technology services have been significantly upgraded, converging to the requirements of students. At the same time, it was possible to create the infrastructural conditions for the successful participation of future tenders. "Blade" servers and a central storage system have been deployed and some applications were created on virtual servers. Due to quick access to data and files, optical "SAN" network has been deployed, and to enhance the network accessibility, wireless technology has been built. Speed of network backbone (spine) has been raised to 10 GBPS. With the deployment of an "ASA" network tool, countering the hostile

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activity against the networks, supervision of data-traveling and securing of flexible VPN-contact improved significantly.

Project “TAMOP-4.1.1-08/2/KMR (development of institutional and student services in the higher education) was running from 15th October 2009 until 31st December 2011, with the aim “to enhance services for the students and to provide assistance for the leader’s decision-making supported by information technology tools”. According to this, the so called “Leader’s Data Store Based Information System” (Hungarian abbreviation: AVIR), the System for Tracking Graduated Students (Hungarian abbreviation: DPR) and the Alumni System (Hungarian abbreviation: AR) have been built, and the talent maintenance became supported by information technology too.

The main goal of this project was to build differentiated, complex services in the field of higher education (like DPR, Alumni and AVIR), meeting the requirements of 21st century. This has been reached by founding informatics background for talent selection, for helping their development, by creating the frame of cooperation with business-life actors and by activating students beyond their time of learning.

In the frames of the project, such kind of IT service management has been built which are providing a great basement for objective performance measuring, for more efficient leadership and for more accurate planning.

During the process creating the “AVIR” system, we integrated the “Neptun” network, the electronic HR and economic databases and approximately twenty electronic databases into the Leader’s Data Store Based Information System in order to support the decision-making procedures. The “AVIR” system is able to provide online data and information for leaders’ strategic decision-making, for orientation and for analysis, by the means of “data-drilling” and creating “OLAP-cubes”.

At the establishing of AVIR, we could largely rely on the scientific research achievement of the citizens of our university; for example on the PhD dissertation written by Mrs. Tibenszky dr. Krisztina Fórika. The fourth chapter of her work includes the basics, methods, and models, which were very useful in the course of shaping “AVIR’s” principles.

To operate AVIR, the so called “Competence Center” has been brought to life, which is responsible to secure data for effective system running and it helps for the users too in order to utilize the system’s possibilities.

Shaping the functions of AVIR and in order to fulfill the requirement data supplying for the different governmental organization the guidance of “EDUCATIO Social Service Nonprofit Ltd.” was essential.

The System for Tracking Graduated Students (Hungarian abbreviation: DPR) and the Alumni System (Hungarian abbreviation: AR) are called to serve the path-tracking of the former students, and to connect the alumni to their Alma-Mater in emotional and in physical manner too. At both systems, the newest information technology means were utilized, like community portal-system, electronic communication and geo-informatics.

Electronic job-hiring services were built into the functions of the portal, the geo-informatics system supports the employer finding and the alumni meetings.

Through the talent maintenance supported by informatics tools, the mentor-mentored mutual searching procedure has been integrated into the portal system, in order to help contact-building and to record the related outcomes.

“DPR” and “AR” are being run by the University’s Career Office.

Fulfilling this project was greatly supported by the high level professionalism of “VELOXNET Informatics, Trade and Service Ltd.” and of “ESRI Hungary Ltd.”. Both companies took part in this project as tender winners.

Nowadays we are working to expand the “AVIR”, “DPR” and “AR” services on the whole of the (new) university, in accordance that the two other faculties could be join to these systems.

The project “TÁMOP-4.2.3-08/1KMR-2009-0001” called “Science and Security” has been run from 1st September 2009 18th September 2011. It has had the goal of presenting teaching and research work on ZMNDU from the aspects of engineering, natural sciences, mathematics, and informational technologies. From social aspects the project aim was to disseminate and to popularize the engineering, natural sciences, mathematics and information technologies.

According to the aim declared by the tender and by that fact that the expectations were formed to fit the university’s own opportunities; we have set up the next partial goals:

- presenting the social necessity and benefits of military sciences; presenting the possible usage of the results coming from military sciences for the civilian life; at the same time to extend the social acknowledge of these sciences;
- boost the cooperation with fellow higher education institutions, with small and medium enterprises, and support the foreign and domestic market opportunities of these;
- to popularize the science in high schools and also in the whole of society, utilizing creativity, interactivity, media, and on-line materials;
- extending the number of joint research;
- extending the enrollment ratio.

Dissemination of sciences included quizzes organized for students, who could also learn about our university’s engineering and technical capabilities on road shows

organized more than ten times. We organized several conferences and workshops also using the modern communication opportunities, such as broadcast on the internet or videoconference. The latter has been also applied in the course of teaching; lecture hall was connected to the different organizations, in this way the students have had the opportunity to ask their questions, after getting theoretic knowledge.

In order to popularize sciences we have begun to utilize electronic bulletin boards, using video spots, screen casts and various other presentation materials.

The last two projects were conducted by the co-funding of the European Social Fund, and we have to maintenance the above mentioned activities for the upcoming five years.

There are still two other projects running on the FMSOT:

The “TÁMOP-4.2.1.B-11/2/KMR-2011-0001” (research of critical infrastructure) has been set out in a consortium with the “University in Óbuda”. It started from 01st January 2012. In the course of this project, there will be research done in the fields of engineering, informatics and aviation with the publication of the related results.

The “TÁMOP-4.2.2/B-10/1-2010-0001” (risks and answers in the field of talent maintenance: “KOVÁSZ”) has been started from 1st November 2011, with the main goal of reaching greater efficiency and higher standards in the maintenance of the students’ scientific research. The task of this project is to enhance the university’s manpower supply and to strengthen its scientific potential. It includes the qualitative development of the Doctoral Schools for Military Sciences and Military Engineering and of the Advanced College for Security Studies. It is also important to improve the work of institutional student’s club in order to reach the synergy in the fields of social security.

This project supports conducting research programs, the enhancement the dissemination activities and the infrastructural improvement and teaching.

These two projects also came to life by EU support and they are co-funded by the European Social Fund.