



Universiteti i Mitrovicës "Isa Boletini" Mitrovicë  
Fakulteti i Inxhinierisë Mekanike dhe Kompjuterike

University of Mitrovica "Isa Boletini", Mitrovica  
Faculty of Mechanical Engineering and Computing

**STRATEGIC PLAN OF THE FACULTY OF  
MECHANICAL ENGINEERING AND  
COMPUTING (FMEC)  
For 2019-2021**

Universiteti i Mitrovicës “Isa Boletini” Mitrovicë  
Fakulteti i Inxhinierisë Mekanike dhe Kompjuterike

*University of Mitrovica “Isa Boletini”, Mitrovica  
Faculty of Mechanical Engineering and Computing*

This strategic plan is prepared by the staff of the Faculty of Mechanical Engineering and Computing, of the University of Mitrovica, based on the Senat of the UMIB's requests and recommendations.

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## DOCUMENTS CONSULTED:

The Strategic Plan of the Faculty of Mechanical Engineering and Computer Sciences (FMECS) is compiled in accordance with the existing documents and reports as follow:

- Temporary UMIB Statute;
- The National Development Strategy (2016-2021) of the Government of Kosovo
- The Law on Higher Education of the Republic of Kosovo, 2010;
- Kosovo Education Strategic Plan 2017-2021;

Therefore, the strategic objectives of the Faculty of Mechanical Engineering and Computing are related to the objectives referred to above. Likewise, the strategic orientation focuses on the mission and vision of the academic development within the faculty.

Strategic planning is used to define mission, vision, values, and strategies for achieving goals and objectives.

The Strategic Plan is designed in accordance with the Strategy of the University of Mitrovica "Isa Boletini", adapting to the mission, vision, orientation, and objectives of the University. The Faculty of Mechanical Engineering and Computing is oriented through this plan to present its key objectives for the development and advancement of the Faculty, by referring to the fulfilment of this plan according to the defined time period.

The Faculty of Mechanical Engineering and Computing at the University of Mitrovica "Isa Boletini", remains committed to meeting academic and professional objectives, being focused on developing new cadres in the fields of technical engineering and modern economy. Based on the programs and levels of study that the FMCE offers, it will continue to contribute to meeting the needs of engineers and modern economists oriented to economic engineering; as a multidisciplinary program, the economic engineering program deals with the implementation of engineering in the field of modern economy, being focused on technology and innovation.

This plan has been prepared by considering a large number of factors that have influenced its final form. The key role in drafting this document have had the analysis of the programs offered in all Universities in Kosovo and the region, the analyzis conducted by the academic staff currently employed at the University of Mitrovica, consultations with students from the programs and levels of studies that the faculty is already offering, as well as research on the labor market needs conducted by the people engaged on drafting this strategy.

The strategy is designed to provide data on FMEC's orientation, including the mission and vision of this faculty within the programs provided. The strategy relies on three main pillars of development: young students; research and organization within the faculty; quality assurance and advancement of the academic staff already employed, or those seeking to be employed at this faculty.

The nature of the Strategic Plan guarantees the continuity and legitimacy of the development strategy. The fact that this strategy was proposed by most academics and administrative staff, should be taken into account by current and future administrators. In order to meet the students' and the academics' expectations in a period of three years.

This document presents a summary of the strategic planning process conducted at the Faculty

of Mechanical Engineering and Computing. In addition, it explains the FMEC's strategic planning methodology applied according to the UMIB Strategic Plan. It also explains how FMEC will achieve the planned results.

## **History of the Faculty of Mechanical Engineering and Computing**

The Faculty of Mechanical Engineering and Computing is a continuation of the Faculty of Applied Technical Sciences. ( Formerly High Technical School<sup>1</sup> in Mitrovica, established in 1961 by the decision of the Executive Council of Kosovo no. 2671 dated 10 May 1961, Kosovo's official gazette no. 25/61 and financially supported by "Trepça".)

The history of the development of the teaching activity of the Faculty of Mechanical Engineering and Computing can be divided into four periods of development:

### **FIRST DEVELOPMENT PERIOD 1961-1991**

Former High Technical School (HTS) worked as an independent institution until the opening of the University. After the establishment of the University, the Former High Technical School continued its work within the University of Prishtina.

As known, teaching at the former High School of Engineering was in Serbo-Croatian language only. After many efforts and the provision of the teaching staff, teaching in Albanian language begun in 1968.

Following the abolition of the Kosovo Constitution in 1989, the Kosovo Assembly, and all Kosovo's institutions in 1990, Serbian repression continued in all social areas in Kosovo, including Albanian language education.

The University of Prishtina in general, including the former High Technical School in Mitrovica were among these repressive actions. The Assembly of Serbia, by Arbitral Decision no. 54 of 19 March 1991, ordered inclusion of all Kosovar High Schools at the Association of High Schools of Serbia i.e. detachment from the University of Prishtina.

Albanian/Kosovar workers and students protested three days in front of their facility in Zvecan. On day four, the police pulled them violently away from the school yard, making them unable to gather and protest.

### **SECOND PERIOD OF DEVELOPMENT 1991-1999**

When all former HTS teachers were expelled from their jobs and the students had no teachers and facilities to learn, the employees/teachers of the former HTS made all the necessary preparations for the continuation of the learning process. They organized teaching in private teachers' premises, in private homes, in the Islamic Community of Mitrovica, in the Primary School "Avdullah Shabani", in the Primary School "Migjeni" and in the Elementary School "Skënderbeu" in Mitrovica.

In accordance with the legal provisions of the Government of Kosovo and the Decisions of the Assembly of the University of Prishtina, the school harmonized the normative acts and established the legal basis for the continuation of teaching.

Regular admission of new students at HTS for the academic year 1991/92 included 80 new students enrolled in the first year, 40 students - Machinery and Electrotechnics, while 140 students were in the 2nd year in both branches.

In the 1993/94 school year, compliant to the Decree Law on Higher Education in Kosovo,

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<sup>1</sup> High Technical School-two years of Higher Education (translators' note)

the Former School harmonized and approved the School Statute and all normative acts, creating legal conditions for the transformation of the school. In this year, the vocational commissions of the former School proposed new Lesson Planning and Curriculum Design by transforming 4 semesters education into 5 semesters education, and new branches were opened: Telecommunication and Informatics, Energy, Manufacturing Machinery, and Thermo Energetics, all approved by the University Council and the University Senate. In 1997/98 students shifted to Kosovo's political life; supported by the Albanian/Kosovar people and internationals they organized proper protests to return to school facilities.

### **THIRD PERIOD OF DEVELOPMENT 1999-2013**

During the war, the Elementary School "Skënderbeu", where the former High Technical School (HTS) had been developing its teaching activity was robbed, vandalized and destroyed.

Based on the University Decision and the Authorization of the International Administrator of the University of Prishtina, the former High School (HS) made reforms under the Bologna Declaration at the beginning of the academic year 1999. On this occasion, the HTS experts drafted the proposal, then the University Senate approved the former HTS's new curriculum, which resulted in its transformation: Bachelor School system and the ECTS credit system, with three years of study programs.

The Law on Higher Education was approved by the Assembly of Kosovo on dt. 12.05.2003. Based on that, on 05.07.2004 the Senate of the University of Prishtina approves the Statute of the University- which expected the transformation of Former High Schools into faculties, (after fulfilling the conditions stipulated by the Statute of the University).

Upon the fulfillment of the conditions, the Managing Board of UP (with Decision no. 5/229 of date. 05.09.2005), transformed former HTS into the Faculty of Applied Technical Sciences with the following departments: Engineering Informatics and Industrial Machinery.

Based on the Decision of the University Senate no. 21/99 of date. 29. 07. 2008, the Senate approved curricula for Bachelor studies.

After reviewing the proposal of the units of the University, the UP Senate, pursuant to the Decision no. 2/99 dated 29. 07. 2008, approved the proposal of the Faculty and approved new curricula.

Thus, in the academic year 2008/2009, the Faculty started with Master studies in Industrial Machinery Department, Direction: Cutting Technology.

In 2012, the Kosovo Accreditation Agency decided on the accreditation of bachelor programs: Industrial Machinery, Informatics Engineering and Economics Engineering programs; and accreditation of Master level programs: Production Technology (Cutting Profile and Deformation Profile), and Engineering Informatics.

### **FOURTH PERIOD OF DEVELOPMENT 2013**

A new stage of development for higher education in Mitrovica begun in 2013. The University of Mitrovica "Isa Boletini" was founded by decision of the Government of the Republic of Kosovo, no. 1/118, dt. 06.03.2013 and its ratification in the Assembly of Republic of Kosovo no. 04.V.2013, dt. 30.05.2013. The Faculty of Applied Sciences was part of this university. At the meeting held on 16/07/2013, the Council of the Faculty of Applied Sciences proposed to the Founding Council of UMIB that the Faculty of Applied Sciences to be named: Faculty of Mechanical Engineering and Computing.

The Temporary Statute of UMIB was approved by the UMIB Steering Council at the meeting held on 22.07.2013. it also accepted the proposal of the Council of the Faculty of Applied

Sciences for the change of its name into the Faculty of Mechanical Engineering and Computing.

Moreover, in 2013, the Kosovar Accreditation Agency (KAA) decided on the accreditation of: Mechanical Production both: BSc and MSc, Engineering Informatics BSc and MSc, and Economic Engineering BSc.

In 2017 KAA accredited the BSc in Production Machinery, BSc in Engineering Informatics and BSc in Economics Engineering.

Currently the Faculty of Mechanical Engineering and Computer Science, as an academic unit within the University of Mitrovica "Isa Boletini", is functioning with three study programs of Bachelor level: BSc Engineering Informatics, BSc Economics Engineering, BSc Production Machinery,

The proposal of these plans and study programs of FMEC aims at the fulfilment of these objectives:

- The need to upgrade plans and programs, and their harmonization with the European Union's countries.
- Enhancing the existing plans and programs, and improving them based on innovative and advanced experiences of other similar Faculties.
- Reforming the study system, offering exchange opportunities for students.
- Increasing efficiency and quality of the studies by applying modern teaching and modern assessment methods.
- Engaging academic staff and applying their professional and commitment experiences.
- Improving the study programs, by freeing students from studying (learning) excessive and unnecessary topics.
- Instructing the academic staff to prepare compulsory literature on the subjects they teach and offering access to advanced systems in electronic libraries.
- Application and implementation of theoretical part into practice, i.e. enabling students' practical engagement, seasonal employment or engagement in professional projects and labs.
- Proposing new programs according to the trade requirements, being focused on technology developments and innovations.

The accreditation process presents the main goals and the real status of the Faculty, as well as, evidencing lacks dealing with changes at the Faculty's management and management strategy, helping the effectiveness of the use of its assets in human resources, infrastructure, support services for students, its financial resources, national and international partnerships, taking into account its strategic geographic position.

## **MISSION AND VISION**

### **Mission**

Its mission is the continuity of the Bologna process, scientific research and scientific development in general; cooperation with higher education institutions (HEI) in the country, in the Balkan region and in Europe; exchange of information; cooperation in advanced research, European standards achievements.

The Faculty of Mechanical Engineering and Computing aims to foster cooperation among Higher Education Institutions and European counterparts and participate in international

academic community, by incorporating the best European experiences in our academic process.

Based on natural resources available in the region of Mitrovica and in Kosovo, in general, and based on the labor market in the Balkan region and Europe, there is a need to prepare personnel to work on the research and development of these resources. The personnel that emerge from this institution will be sought and will have positive impact on the development of the region.

## **Vision**

FMEC is focused on quality development, quality education and research, as well as the overall economic and social support and development in the country.

Based on scientific and educational results, the FMEC seems to be an important faculty in the field of technical sciences.

## **Organization, management and planning**

### **The organizational structure of the Faculty of Mechanical and Computer Engineering**

The Faculty of Mechanical Engineering and Computing includes the following internal regulations:

- Bachelor's Degree Regulation
- Master's Degree Regulation
- Regulation for the Institute of the Faculty
- Regulation for Bachelor's diploma work
- Regulation for Master's diploma work
- Regulation for seminar papers
- Faculty Secretary is in charge for the Faculty administration. All matters are reported to the Dean.

The organization of decision-making structures of the Faculty's academic affairs is conducted through the commission for Bachelor studies and the commission for Master studies. The commission for Bachelor studies is led by the vicedean for learning, while the Master's level of studies is led by the Dean. All proposals of the two commissions are approved at the Faculty Council.

The procedures for academic nominations that are proposed by the recruitment committee and approved by the Faculty council are definitely approved by the Senate of the University, composed by two senators from each academic unit.

Nominations (titles) for scientific staff are provided based on the UM Statute.

### **Regulations and procedures for developing / reviewing and approving new curricula (quality criteria and responsibilities)**

The legal basis for the development, revision and approval of new curricula is defined by the Law on Higher Education, the Temporary Statute of the University of Mitrovica "Isa Boletini" and the Administrative Instructions of MEST. The criteria for quality assurance and



responsibilities are defined by the Temporary Statute of the University of Mitrovica "Isa Boletini".

**Regulation for Students' Evaluation and Their Progress During the Exams ( shortly introduce procedures for student assessment, exam terms, eligibility requirements and assessment method)**

Student assessment is regulated by the Temporary Statute of the University of Mitrovica "Isa Boletini", and by Bachelor and Master's degree Regulation of the Faculty of Mechanical Engineering and Computing. Exam dates are determined by the Temporary Statute of the University of Mitrovica "Isa Boletini" and the above mentioned regulation. Regular exams are held in January, June and September. Students are evaluated/assessed with marks starting from mark 5 (five) to the highest: 10 (ten). Success of the learning process is also determined by colloquiums, seminar work, tests and practical lab exercises.

**Regulations and procedures for the preparation of BA, MA and PhD thesis topics (for the levels offered)**

The procedure for drafting the diploma theses is regulated by the Regulation on drafting Bachelor and Master Degree Program, by the Regulation for Bachelor, and the Regulation for Master Studies of the Faculty of Mechanical Engineering and Computing.

**The document on the planned legal relationship(s) between the institution and the students**

Legal relationship is established between the institution and the student at the moment of the students' admission which is based on the students' achievement results. Students' obligations towards the institution and the institution's obligations towards the students are regulated by the Provisional Statute of the University of Mitrovica "Isa Boletini" and the Code of Ethics.

**Quality Management**

The Office for Academic Development of the UMIB seeks to integrate with the European Higher Education area . As such it aims to promote and implement the objectives of the Bologna Process at the University of Mitrovica .

Quality Assurance is implemented through students' internal evaluation for teachers and administration. Its work is based on the Quality Assurance Regulation.

**Duration of studies**

Bachelor studies last 3 years i.e. 6 semesters, while master studies last 2 years i.e. 4 semesters.

**Graduation**

Graduation and obtaining a vocational degree/diploma at the Faculty of Mechanical Engineering and Computer Science in Mitrovica is achieved upon completing all exams, as well as finalizing the diploma which is based on the program i.e. the fulfillment of the required number of 180 ECTS (credits)

The diploma workflow process:

- The topic is chosen by consulting the mentor of the relevant field,.

- The Diploma Thesis is approved by the Faculty Council, and the commission members for thesis defense are appointed.
- The diploma is publicly defended before a commission consisting of three members.

### **Professional and academic titles gained after graduation**

After completing their studies, the students at the Faculty of Mechanical Engineering and Computer Science in Mitrovica are rewarded with one of the following vocational Bachelor and Master titles:

1. Bachelor of Engineering Informatics
2. Bachelor of Production Machinery
3. Bachelor of Economic Engineering
4. Master of Production Machinery
5. Master of Engineering Informatics

The Faculty of Mechanical Engineering and Computer Science at the University of Mitrovica is responsible for the aforesaid titles.

### **Teaching plans and programs by department**

Based on the Bologna Declaration and the curricula of the European Universities, the curriculum consists of subjects that will be mainly one semester. i.e. depending on the department, the student will be engaged in up to 11 subjects during an academic year, i.e. 20 to 25 study hours per week

The number of courses according to the curricula:

- a. Compulsory subjects (which form the core of the curriculum and the curriculum) 60%
- b. Elective courses, consisting of 40% ECTS-credits
- c. Optional courses, consisting of 5% ECTS - credits

Compulsory and elective courses are defined by the curriculum for each academic year, whereas new optional subjects, which are not foreseen in the curriculum but are related to the scope of studies, may be offered in the academic unit.

New optional subjects can be proposed by the Faculty's teachers or experts from scientific institutions. New subject is presented at the beginning of the semester. If there is sufficient number of students interested for the new subject, then this new elective subject is proposed to the Faculty Council and to the Senate of the University. If the course is approved, then the teacher teaches the course according to the curriculum presented.

### **Comparability of Programs with European Universities Programs**

The curriculum is adjusted to the Sorbonne Declaration dated 25 May 1998 on the Development and Equivalence of Higher Education in Europe, and the Bologna Declaration of 19 June 1999, in which models for reforming institutions in Europe are defined.

The curriculums have been developed by experts of this institution, by comparing them with other similar faculties' curriculums, as shown bellow.

## **Study program in assessment: ENGINEERING INFORMATICS**

### **Reasoning of the labor market program**

Bachelor degree in Informatics Engineering is designed to give students a powerful background in mathematics, engineering physics, and computer and electronics engineering. Graduated student in this program should be able to apply fundamentals of mathematics, analyze and evaluate computer systems, hardware and software.

A person with a degree in Informatics Engineering should also be able to design and implement computer systems (hardware and software), as well as solve many of the computer problems. This includes systems with hardware and software components, the design of which requires interface between these two components.

Graduates in Engineering Informatics have a good foundation in applying programs in C ++ and C # programming languages, databases designing, and web sites designing and their optimization. In addition, the fundamentals gained in this department prepares and develops the IT staff, prepares institutes for research design, both state and private enterprises within the country, in the Balkan region and abroad, as well as it helps in the educational process for future staff in the field of computer engineering.

Engineering Informatics Program is based on the Bologna model as 3 + 2 study years.

Specific fields in the Department of Engineering Informatics at the Faculty of Mechanical and Computer Engineering include:

- Basic Concepts From Applied Mathematics, DISCRETE STRUCTURES, And Engineering Physics
- Basic Concepts Of Computer Engineering
- Computer Hardware And System Software
- Integrated Computer Systems And Their Design And Programming
- Integrated Computer Systems With Their Design And Programming
- Basics Of Electronic Engineering And Digital Electronics

#### Microcomputing And Microprocessor Systems

- Concepts Of Operating Systems
- Computer Networks With And/Or Without Cables , As Well As Optical Communications
- Databases, Design And Maintenance
- Computer Security Aspects
- Software Engineering Concepts And Policies
- Basics Of Statistics And Project Management
- Graphic Design Concepts

The organization of studies is designed to meet local market demand (by analyzing the requirements of IT companies and public organizations in the Republic of Kosovo), also enabling a modern global perspective

The goals of this program are to:

- enable the students broader communicative, linguistic and analytical skills;
- enable the students to have theoretical and practical knowledge in the field of ICTs , real life application and professional practice;
- enable the students to engage in the development and implementation of various solutions in the field of ICT;

- enable the students to work on individual projects or group projects, which may be: scientific-research, development and practical work;
- provide a good basis for further adaptation to new technologies, market changes and their application;
- provide supporting skills during the organization, implementation and implementation of methods and procedures in other areas.

### **International comparisons of the program**

The institution has gone through several external evaluation phases, conducted by external accreditation teams. A series of suggestions and advice on the curriculum development process have been also provided. The institution has been following a number of international and local academic institutions, standards of various international associations, as well as industrial sectors. As such a new curriculum has been designed: by combining the best international practices in the local context. In addition, the staff and students have also contributed with their suggestions.

The overall core of the curriculum provides:

- Introduction-fundamental courses about Computer Engineering
- Identification and interconnection of concepts, content and structure of Computer Engineering
- Optional courses selected by the students
- Practical Work and students' engagement internships
- Qualified teachers

The study program is comparable and harmonized with Bachelor studies of the following Universities:

- Standards of the Association for Computing Machinery-Computer Engineering Curricula 2016
- Faculty of Electrical and Computer Engineering [HTTP://FIEK.UNI-PR.EDU/](http://FIEK.UNI-PR.EDU/)
- University of Vienna
- The University of Kent
- Stanford University
- Rochester Institute of Technology
- Faculty of Mechanical Engineering -Skopje
- Faculty of Economics and Information Technology- Tirana
  
- <http://www.mb.uni-siegen.de/index.html?lang=de>
- <http://www.upt.al/index.php/fakultete-dhe-institute>
- <http://ekonomiku.uni-pr.edu/>
- <http://unite.edu.mk/index.php?news=4150>

**The target group :**

This study program is dedicated to:

- Students who have completed high school and have completed high school final examination
- Professionals and Computer Engineering Managers who are already working in the field of Computer Engineering and want to enhance their professional skills and knowledge
- Professionals in the field of industry who have a function in other economic structures where the application of Engineering and Computer Technology is sought. i.e. as a value in production processes, information safety, e-governance etc.

Graduates of this program will be able to work in different professions and sectors:

- Administrator / Computer Network Manager
- Administrator / Database Manager
- Administrator / System Manager
- Computer Security Specialist
- Technical Maintenance specialist
- Software Engineering Systems Developer
- Consultancy in the field of Computer Engineering

**The purpose and profile of the study program**

The use of computer systems rate is growing steadily - from smartphones and tablets to aviation, control systems and global telecommunications. The main goal of Computer Engineering program is to offer the students the basics of work and career in solving computer-based problems.

This is provided by updating hardware and software knowledge, and electronics and communication systems knowledge. Theoretical education with continuous efforts to develop a so-called process-oriented atmosphere encourages the students to link their theoretical ideas with practical applications from day to day life and industry. These bases support the career path and provide the right qualification for life-long learning in the areas related to Computer Engineering. This special emphasis is on raising analytical skills, learning the knowledge and understanding of the systems, languages, techniques, technologies and tools needed to

effectively solve the problems with Computer Engineering.

In a nutshell, the objectives of the program are:

- Education of students to become well-engineered for professional career, manufacturing in industry and able to cope with rapid changes in the field of Computer Engineering
- Education of engineers in hardware and software specialized skills, prepared for the complexities of designing modern computer systems
- Creating an atmosphere of collaboration and partnership between staff and students, and providing an environment where students can develop their potential
- Provide the right qualification for life-long learning

### **Expected learning outcomes**

Graduates are expected to demonstrate:

- Ability to apply knowledge in the fields of math, science and engineering
- Ability to design and track experiments, as well as to analyze and interpret data
- Ability to design a system, component or process that meets economic, environmental, social, needs, productive and sustainable needs
- Ability to work in multidisciplinary teams
- Ability to identify, formulate, and solve engineering problems
- Acquiring professional and ethical responsibilities
- Ability to communicate effectively
- Extensive skills needed to understand the impact of computer solutions in local, global, economic and social context
- Prediction of the need and ability to engage in so-called life-long learning
- Knowledge of current affairs
- Ability to use technical, skillful, and different tools to select different practical tasks
- Knowledge of statistics
- Recognizing the principles of project management and leadership

### **Relationship between theoretical and practical / experimental part of the study;**

This curriculum provides access to subject-oriented education and design. This process-oriented approach encourages the students to be engaged in projects. The so-called Learning-by-doing model has been extended to almost all subjects through the lab work component.

Management of educational / didactic technology aspects, i.e. the organizational and management elements, and laboratory work, are as follows: the teaching material will be soon introduced through moodle, obligatory participation in exercises and evaluation (with marks); students have continuous access to the labs; combination of laboratory activities and lectures; technical support, and laboratory sessions that will be held by well-prepared staff who understand their problems and solutions, and well-equipped laboratories.

### **Calculation of ECTS**

At the FMEC, the equivalent of an ECTS credit is calculated as 25 - 30 academic hours. As part of the credit system, the institution calculates contact hours, practical work (labs) and self studies. The program lasts three years, i.e. a total of 4500 - 5400 academic hours. A full academic year is equivalent to 1500 - 1800 hours: lectures hours, practical work (labs) and self studies. During 3 years of study, the student must complete all 180 ECTS divided into 6 semesters, that is 30 ECTS each.

## **Practical work**

The institution has a wide network of industrial institutions and networks that enable placement of students. The program itself has attracted both students and people already engaged in the labor market and the selection of the study seems to be mainly oriented to the process of improving skills. The program emphasizes the importance of practical work both in terms of hours dedicated to practical laboratory experience and its focus on a thesis, and industry-based application. The theory-practice section above describes laboratories that the institution provides for the students and the emphasis on the practical component. Moreover, the institution has appealed employment of industry-based lecturers i.e. those who were professionals in the industry, as a means of reinforcing student knowledge in the latest developments in the industry.

The FMEC is in the process of signing a cooperation agreement (MOU) with Morehead State University, Kentucky, USA. A part of the agreement deals with the 'Organized Research Units' (ORUs). In addition, with the same University, we have applied for a grant at the US Embassy in Pristina. The title of the proposal is 'Joint Organized Research Unit between Western Balkans Universities and a U.S. University' which aims to improve the skills and research quality among a number of universities in the region

## **Assessment Program: PRODUCTION MACHINERY**

### **Reasoning of the labor market program**

Production as a very important social process is closely related to the production of various products, ranging from foodstuffs to various technical products, where the whole process of production in today's industrialization is somewhat partly and somewhere all automated

The Department of Industrial Machinery offers the Production Machinery program, based on contemporary needs, the most scientific achievements and researches that are fulfilled in contemporary and individual industry. The level of professional achievement and the scientific bases that students gain during these studies are sufficient for their rapid engagement in machinery industry, maintenance and research, and design institutes, as well as, the education process for the future education of staff in the field of manufacturing science and technology, in the country, in the Balkan region or worldwide. Graduates will work in industrial environments and implement advanced technology based on the principles of manufacturing technology; and based on business requirements in Kosovo, communicate and provide relationship with specialists of other areas.

### **International comparisons of the program**

The institution has gone through several external evaluation phases, conducted by external accreditation teams, whereby a series of suggestions and advice on the curriculum development process have been provided. The institution has followed a number of international and local academic institutions, standards from various international associations as well as industrial sectors on the basis of which they designed a curriculum by combining the best international practices in the local context. The staff and students have also contributed with their suggestions.

The overall core of the curriculum provides:

- Introduction-fundamental courses about Production Machinery
- Recognizing and interconnecting the concepts, content and structure of the Production Machinery

- Elective courses
- Students' Practical work within the curriculum
- Qualified Teachers

The study program is comparable and harmonized with the Bachelor studies of these Universities;

- Faculty of Mechanical Engineering - Prishtina <http://fim.uni-pr.edu/>
- Faculty of Electrical and Computer Engineering <http://fiek.uni-pr.edu/>
- Faculty of Mechanical Engineering - Skopje
- University of Vienna
- University of KENT
- Rochester Institute of Technology
- <http://www.mb.uni-siegen.de/index.html?lang=de>
- <http://www.upt.al/index.php/fakultete-dhe-institute>
- <http://ekonomiku.uni-pr.edu/>
- <http://unite.edu.mk/index.php?news=4150>
- Faculty of Mechanical Engineering - Zenica
- Faculty of Mechanical Engineering-Ljubljana
- Faculty of Mechanical Engineering and Naval Architecture, Zagreb

### **The target group dedicated to the program**

This study program is dedicated to the:

- Students who have completed high school and have completed final exam
- Professionals and Mechanical Engineering managers who are working in the field of Mechanical Engineering who wish to raise their knowledge and professional skills
- Industry professionals who operate in other economic structures where the involvement of Engineering and Mechanical Technology is seen as an added value in production processes, and efficacy and efficiency growth.

Graduates of this program will be able to work in different professions and sectors:

- Administrator / Production Process Manager
- Administrator / System Manager
- Technical maintenance specialist
- Designers and implementers of production systems
- Consultancy in the field of Production Engineering

### **The purpose and profile of the study program**

The Production Machinery Program is designed to provide students with a broader education in the science of Production Engineering (PE) that will enable graduates to face the challenges of engineering. These challenges require the opportunity to apply knowledge in new forms of production systems, and the adaptation of existing technology to small and medium enterprises in Kosovo. The main goal of the Production Engineering Program is to provide students with the basics of PE work and career in their future in solving Production Engineering problems. Theoretical education with continuous efforts to develop a so-called process-oriented atmosphere encourages the students to link their theoretical ideas with practical applications from day to day life and industry. These bases support the career path and provide the right qualification for life-long learning in the areas related to PE. This special emphasis is on raising analytical skills, learning the knowledge and understanding of the systems, languages, techniques, technologies and tools needed to effectively solve the problems with PE.



In a nutshell, the objectives of the program are:

- Education of students to become well-engineered for professional career, manufacturing in industry and able to cope with rapid changes in the field of PE
- Education of engineer with specialized skills in PE, prepared for complexity of designing manufacturing systems
- Creating a collaborative environment and partnership between staff and students, and providing an environment where students can develop their potential
- Providing appropriate qualification for life-long learning
- Effective communication with technical-professional information, in written, oral, visual and graphic form. Both in Albanian and English, but in many cases in languages spoken in the region.
- Being an active member of team work in problem solving and decision-making related to the technique and technology of machining; the rational use of the resources that the country possesses, safety at work and other issues that require knowledge and professional dedication.
- Strong sense of lifelong learning need, develop analytical thinking skills and creativity to serve as a lifelong learning foundation.
- Through various programs and choices, to acquire the right experience, mathematical application in basic sciences, foreign languages and contemporary social sciences.
- Graduate students are able to communicate and interpret different plans and projects such as: workshops, wards and have communication skills and professional reporting to colleagues, management, inspection, professional communication about/of the problem.
- Graduate students demonstrate organizational engineering skills, appropriate technical knowledge regarding safety at work, transport, measurement and control, product conservation and storage.

### **Expected learning outcomes**

Graduates are expected to demonstrate:

- Ability to apply knowledge from math, science and engineering
- Ability to design and follow the experiment, as well as to analyze and interpret the data
- Ability to design a system, component or process that meets economic, environmental, social needs.
- Ability to work in multidisciplinary team projects
- Ability to identify, formulate, and solve engineering problems
- Acquire professional and ethical responsibilities
- Ability to communicate effectively
- Extensive skills needed to understand the impact of engineering solutions in local, global, economic and social context
- Projection of the need and ability to be engaged in so-called life-long learning
- Knowledge of current affairs
- Ability to use technical, skillful, and different tools to explain different practical tasks
- Knowledge of statistics
- Recognize the principles of project management and leadership

### **The relationship between theoretical and practical / experimental part of the study**

This curriculum provides access to subject-oriented education and design. This process-

oriented approach encourages the students to be engaged in projects. The so-called Learning-by-doing model has been extended to almost all subjects through the lab work component.

Management of educational / didactic technology aspects, i.e. the organizational and management elements, and laboratory work, are as follows: the teaching material will be introduced in the moodle, participation in the exercises is obligatory and evaluated (with marks); students have continuous access to the labs; combining laboratory activities and lectures; technical support, and laboratory sessions that will be held by well-prepared staff who understand problems and help with solutions, and well-equipped laboratories.

### **Calculation of ECTS**

The equivalent of an ECTS credit is calculated as 25 - 30 academic hours. As part of the credit system, the institution calculates contact hours, practical work (labs) and self studies. The program lasts three years, i.e. a total of 4500 - 5400 academic hours. A full academic year is equivalent to 1500 - 1800 hours: lectures hours, practical work (labs) and self studies. The student must complete all 180 ECTS during 3 years of studies.

### **Practical work - (to be proven through valid agreements with business partners)**

The institution has a wide network of industry institutions and networks that enable student work placement jobs. The program itself has attracted both students and people already engaged in the labor market. The selection of the study seems to be mainly oriented to the process of improving working skills. The program emphasizes the importance of practical work both in terms of hours dedicated to practical laboratory experience and its focus on the thesis, and industry-based application. The theory-practice section above describes laboratories that the institution provides for the students, i.e. the emphasis is on the practical component. Moreover, the institution has appealed employment of industry-based lecturers i.e. those who were professionals in the industry, as a means of reinforcing student knowledge in the latest developments in the industry.

### **Research plan for the program / programs assessment**

The research plan should be linked to the research strategy at the university level. In this case, it should be noted that the expenditure on science in Kosovo reaches 0.1% of GDP, whereas, based on some accessible data, the ratio of investments in some Central and Eastern European countries is higher. With exceptions, some organized scientific research activities are not followed at universities, but on individual basis instead.

As a new university, the University of Mitrovica Isa Boletini, precisely the FMEC, is at the stage of strengthening and expanding international cooperation with new, as well as, with the existing partners being focused on student and staff mobility, and on the scientific research. An effective way of doing this is through interdisciplinary units, which are usually identified as centers, institutes, programs, labs or similar terms. Collectively we refer to these as 'Organized Research Units' (ORUs). Through these initiatives we are trying to establish sustainable co-operation within our institution, as well as between our institution and other HEI. This would enable us to focus on the research fields of Science, Technology, Engineering, Physics and Mathematics, by combining the best practices, increasing the engagement of teachers within the department, and providing opportunities for them to establish communication networks and cooperation.

The FMEC is in the process of signing a cooperation agreement with Morehead State University (MOU), Kentucky, USA. A part of the agreement deals with the 'Organized Research Units' (ORUs). In collaboration with the same University we have applied for a grant at the US Embassy in Pristina. The title of the proposal is "Joint Organized Research Unit

between Western Balkans Universities and a U.S. University “ which aims to improve the skills and research quality among a number of universities in the Balkan region.

## **Assessment Program: ECONOMIC ENGINEERING**

### **Reasoning of the program for the labor market**

The labor market structure in Kosovo is characterized by a dominance of employment in the agricultural sector followed by the non-agricultural sector (industry, services and transport). However, the non-agricultural private sector (industry, services and transport) has a considerable place which is steadily growing.

Although the manufacturing industry is the main factor for Kosovo's development, industry employment is still at a low percentage.

There is a growing tendency of employment in the processing industry sector, that is, in small and medium enterprises that show sustainable development towards Kosovo's economy.

Kosovo's economy still suffers from the quality of products and the lack of exploitation of natural resources. In addition, it also suffers from being unable to compete with the European market, and being unable to reactivate and organize big enterprises. Naturally, the lack of qualified engineers and economists, i.e. the lack of appropriate programs is one of the main factors for the lack of large enterprises.

### **Market research**

Based on numerous analyzes we have made on the market demand in Kosovo, all enterprises and production service in Kosovo need experts in the field of Economic Engineering. Besides engineering skills, more knowledge in the field of economy is needed, in order to manage and implement different capital projects for enterprises. As such, this program will serve the country's economy positively. As said above, there are different companies offering jobs for our graduates that cover a wide range of overall labor market.

### **Student employment**

There are numerous opportunities for our graduates of this course: starting from procurement sector in every company and in all sectors of Kosovo. Graduates of this course can be employed in different fields that are directly or indirectly related to economic engineering, such as:

- In the procurement sector of all companies
- In all small or large manufacturing companies,
- In all small or large trading companies,
- In all companies performing various services
  
- Research, development and services,
- Various companies in the field of industry development and economic sector
- administration
- •Public administration,
- Procurement Sectors
- Different civil organizations.
- Entrepreneurship and Innovation Ministries, Electronic Businesses and Innovation Organizations.
- Construction machinery and equipment, Automotive industry and Logistics sales.

As said above, this department is appropriate and necessary for the economy of our country. Given the fact that many companies in Kosovo need engineers who are prepared not only in engineering field, but also in the field of industrial economy, this study program offers a good opportunity to students to serve in the development of domestic economy and beyond.

### **International comparisons of the program**

The BSc in Economic Engineering is a unique program that combines elements of different study programs in order to equip students with Engineering and Economic Skills. The institution has followed a number of international and local academic institutions, as well as industrial sectors. On such basis, a new curriculum has been designed by combining best international practices in the local context. In addition, the staff and students have also contributed with their suggestions.

The overall core of the curriculum provides:

- Introduction-fundamental courses about Engineering and Economics
- Identification and interconnection of concepts, content and structure of Engineering and Economics
- Optional courses
- Practical Work and students' engagement internships
- Qualified Teachers
- Innovation, e-business and digital economy development.
- In this case, the FMEC in Mitrovica proposes the first level study program in Economic Engineering, compared and harmonized with the Bachelor studies of these Universities
- Labor market needs in Kosovo for Economic Engineering program
- Human and material capacities of FMEC
- Economic Engineer and Managerial Engineer at Siegen (Germany), Polytechnic of Bari (Italy) and Faculty of Mechanical Engineering in Tirana.
- Faculty of Mechanical Engineering -Prishtina
- Faculty of Information and Innovation in Tirana
- Faculty of Economics and Information Technology in Tirana
  
- The Faculty of Information Management in Tirana
- <http://fiek.uni-pr.edu/>
- Faculty of Mechanical Engineering -Skopje
- <http://www.mb.uni-siegen.de/index.html?lang=de>
- <http://www.upt.al/index.php/fakultete-dhe-institute>
- <http://ekonomiku.uni-pr.edu/>
- <http://unite.edu.mk/index.php?news=4150>
- Faculty of Mechanical Engineering- Prishtina
- Faculty of Mechanical Engineering- Zenica
- Faculty of Mechanical Engineering -Ljubljana
- Faculty of Mechanical Engineering and Transport,- Zagreb

## **The target group to the program**

The opening of this new direction at the Faculty of Mechanical Engineering and Computer Science in Mitrovica will be of great interest to those who have completed high school. As a unique program, we think that a large number of students from all Kosova will apply

The study program is dedicated to:

- Students who have completed high school and have completed high school final examination
- Professionals and Managers who are working in the field of Engineering in different business sectors and want to enhance their professional skills and knowledge
- Professionals in the field of industry where the application of Engineering is seen a value in business processes.

Graduates will be able to work in different sectors:

- Administrator / Engineering Manager
- Administrator / System Manager
- Consulting in the field of Engineering and Economics
- Entrepreneurship and Innovation Management
- Marketing and technical sales
- Project Management
- Management of information systems

The entry test will be organized by the Faculty and the topics will be from the fields of Economics and Engineering.

## **The purpose and profile of the program**

Economics Engineering Bachelor Program prepares economists in the field of Engineering. In this program, students acquire basic economic and engineering knowledge; combining and integrating these two fields. Students who complete this program can be employed in various (public or private) institutions. They will be able to apply their knowledge in order to increase the effectiveness and productivity of companies.

In a nutshell, the objectives of the program are:

- Education of students to become engineers with knowledge in the field of economics. To become well prepared for professional career, manufacturing and able to cope with rapid changes in the fields of Economy and Engineering
- Education of engineers specialized in the field of engineering and economics, prepared for the complexities of managing various economic-productive processes
- Creating an atmosphere of collaboration and partnership between staff and students, and providing an environment where students would develop their potential
- Provide appropriate qualification for life-long learning

## **Expected learning outcomes**

Graduates are expected to demonstrate:

- Ability to apply knowledge in the fields of math, science and engineering
- Ability to design and follow experiments, as well as to analyze and interpret the data

- Ability to design a system, component or process that meets economic, environmental, social, needs, productive and sustainable needs
  - Ability to work in multidisciplinary teams
  - Ability to identify, formulate, and solve engineering problems
  - Acquiring professional and ethical responsibilities
- 
- Ability to communicate effectively
  - Extensive skills needed to understand the impact of engineering solutions in local, global, economic and social context
  - Prediction of the need and ability to engage in so-called life-long learning
  - Knowledge of current affairs
  - Ability to apply technical, skillful, and different tools for the solution of different practical tasks
  - Knowledge of statistics
  - Recognizing the principles of project management and leadership

### **The relationship between theoretical and practical / experimental part of the study**

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### Infrastructure and equipment

NR.	SOFTWARE/ HARDWARE	VERSION	DEPARTMENT
1	MILLING MACHINE – CNC X.mill900		Industrial Machinery
2	Software - Sinumerik base line	Version 802 C	Industrial Machinery
3	BORING MACHINE - PICOTURN CNC		Industrial Machinery
4	ELECTRIC DISCHARGE Machine - CNC ELECTRIC DISCHARGE MACHINE		Industrial Machinery
5	Software - ELCAM	Version V1.14	Industrial Machinery
6	Electronic Hardness Tester THL - 300		Industrial Machinery
7	Dynamometer for measuring processing forces - KISTLE		Industrial Machinery
8	Software - Kistler Dynoware		Industrial Machinery
9	Surface roughness measurement equipment << TAYLOR HOBSON - TALYSURGF INTRA		Industrial Machinery
10	Software - Talysurf INTRA ULTRA Surface	Version - V5.0.1 Issue 3	Industrial Machinery
11	INSTRUMENT CONSUMPTION MACHINE - PWB SYSTEMS		Industrial Machinery
12	ROBOTI INDUSTRIAL - IRB 120 ABB		Industrial Machinery
13	Software – RobotStudio	Version 5.14	Industrial Machinery
14	CONTROL DEVICES FOR WELDING		Industrial Machinery

15	MEASURING MATERIAL SUPPLY EQUIPMENT "GALDABINI 100KN"		Industrial Machinery
16	GRAPHWORK SOFTWARE	Version 4	Industrial Machinery
17	TEMPERATURE MEASURING APPLIANCES DURING THE PRESSURE PROCESS - KELLER		Industrial Machinery
18	Software – “CellerMevis “	Version 4.1	Industrial Machinery
19	VIBRATION MEASURING APPLIANCE DURING THE PRESSURE PROCESS - "KISTLER"		Industrial Machinery
20	AutoCAD 2012	Version 2012	Industrial Machinery
21	SolidWorks	Version 16	Industrial Machinery
22	CUTTING AND CEMENTING BUTTON - NABERTHERM		Industrial Machinery
23	UNIVERSAL Milling machine (Horizontal and Vertical)		Industrial Machinery
24	Torning machine – TURNADO 230		Industrial Machinery
25	Torning machine – V-TURN 410		Industrial Machinery
26	AUTOMATIC BANDSAWS - ABS 320B		Industrial Machinery
27	MAKINA RETIFIKUESE PËR SIPËRFAQE TË RRAFSHITA - FSM 480) RETAILING MACHINES FOR SURFACE AREAS		Industrial Machinery

NR.	SOFTWARE/ HARDWARE	VERSION	DEPARTMENT
28	<b>UNIVERSAL TOOL GRINDING MACHINE</b>		Industrial Machinery
29	Exentic drop hammer		Industrial Machinery
30	Welding aparatus MIG-MAG M 2040 - <b>LORCH</b>		Industrial Machinery
31	Welding aparatus Combination WIG/Electrode Welder and Plasma Cutter - <b>KNUTH</b>		Industrial Machinery
32	Digital Twin-Column Height Gauge and Scriber		Industrial Machinery
33	3D Caliper		Industrial Machinery
34	Digital Inside Micrometer 5 - 100mm		Industrial Machinery
35	Digital Micrometer Calipers		Industrial Machinery
36	Measuring Tools		Industrial Machinery
37	Electronic Edge Tracer		Industrial Machinery
38	Digital Quick-Action Thickness Gauge 0-15 mm		Industrial Machinery
39	Digital Feele Gauge +/-0.5mm		Industrial Machinery
40	Digital Caliper Rule 150 mm		Industrial Machinery
41	Mechanical Clamping		Industrial Machinery



42	Zentrierwinkel 90mm- Këndore për qendër		Industrial Machinery
43	Messuhr - Halter H5 R3 /2D		Industrial Machinery
44	Tiefen-Meßschraube H5 R19 /2C		Industrial Machinery
45	Angle Vise		Industrial Machinery
46	Precision Machine Vise		Industrial Machinery
47	Hydraulic Machine Vise		Industrial Machinery
48	MS 100 Machine Vise		Industrial Machinery
49	Compound Sliding Tables		Industrial Machinery
50	Swivel Table		Industrial Machinery
51	DIVIDER - ST 130 dhe Tailstock / RT100		Industrial Machinery
52	UNIVERSAL INDEXING HEAD - HT		Industrial Machinery
53	Analog universal gauge (15 pieces)	Hioki 3030-10 (Analog HiTester Multimeter)	Engineering Informatics
54	Digital Universal Gauge (15 pieces)	Digital multimeter FLUKE 179	Engineering Informatics
55	(15 pieces) Tin melting point	Soldering Station EELER PU 81	Engineering Informatics
56	(15 pieces) Capacity-gauge	Digital Kapacitet Meter (Chy 15 Capacitance Meter)	Engineering Informatics
57	(2 pieces) The accurate Resistance measuring box	Resistance decade box RBOX-408	Engineering Informatics

NR.	SOFTWARE/ HARDWARE	VERSION	DEPARTMENT
58	The accurate measuring box for coils (2 pieces)	Inductance Decad Box LBOX-405	Engineering Informatics
59	The accuratet measuring box for capacitors(2 pieces)	Capacitance box CBOX-406	Engineering Informatics
60	Supplier with constant variable voltage of 0-36 V (3 pieces)	Power supply CPX 400A-compact dual output 2X420W, zevendsim MPS 3005L-3	Engineering Informatics
61	Generator of various signals (3 pieces)	SWEEP Function Generator 20 MHz, 2120F	Engineering Informatics
62	Meter and signal recorder with frequency up to 200 MHz. Harmonic components meter (10 pieces)	STORAGE OSCIOSKOP 200MHZ, 2 KANALËSH ME usb	Engineering Informatics
63	Experimental microprocessor plate (8 pieces)	8051 Mikroprocesor training kit - Easy8051 V6	Engineering Informatics
64	Laboratory bag for analog and digital cases (2	EPL500 in1 (500 ushtrime laboratorike	Engineering Informatics

	pieces)	ne nje qante) laboratory exercises in a bag	
65	Function Generator (2 pieces)	Function/Arbitrary Wave form Generators, HIOKI 2150	Engineering Informatics
66	Power Quality Meter (1 piece)	Power Quality Analyzer HIOKI 3169-20	Engineering Informatics
67	Universal measuring and signal forms (1 piece)	FLUKE 192B Industrial Scopemeter SCC190 Accessory Kit (FLK- 192B/003S)	Engineering Informatics
68	Experimental Tiles (50 pieces)	Bread board - PLLAKA EKSPËRIMENTALE	Engineering Informatics
	Experimental Tiles (50 pieces)	Sheets stamped with holes 30x 30 cm	Engineering Informatics
	Optical Fusion Splicer (1 piece)	GAO	Engineering Informatics
	Optical Power meter (2 pieces)	GAO800	Engineering Informatics
	FIS Fiblok Splice Kit with Lynx Cleaver		Engineering Informatics
	As well as many different devices ranging from 7 segment indicators, networking devices to computers, routers, hubs and swicha, various timers, electronic components, etc.	Stored in the warehouse and used as needed	Engineering Informatics
	Laptops (18 pieces)	Dell and Fujitsu Siemens	Engineering Informatics
	(119 pieces) Computers		Engineering Informatics

## Improvement plan

1	Recommendations from the latest AAC assessment	All recommendations have been taken into account and implemented. In some cases, some additional changes that are thought to have a positive impact on the teaching process have been made
2	Online platforms	It will start with the implementation of the moodle platform
3	Moving to the new campus	The faculty will move to the new building. The work will be easier having a positive impact on the teaching/learning process
4	Staff	The Faculty also focuses on growth and advancement of the staff that is already engaged in the processes of teaching. A new staff has also been engaged.
5	International co-operation	The institution is interested to increase international collaborations and create conditions for staff's and students' mobility

## CONCLUSION

The Strategic Plan of the Faculty of Mechanical Engineering and Computing in Mitrovica includes minimum points and objectives set to guarantee the program's sustainability, and a greater academic development. The strategy is orientated towards strengthening the current standards on which the FMCE programs work, and further advancement of these standards. Placing the student at the center, and providing other opportunities, present another principle on which this strategy will work. FMEC will ensure that it fulfills the strategy in a timely manner in order to provide a more complete program for students. It will try to remain competitive with other institutions by providing vocational education based on the requirements of the labor market.