

THE FACULTY OF MECHANICAL ENGINEERING KRALJEVO IN THE EUROPEAN STREAM OF INTEGRATION AND TRANSITION OF THE INDUSTRY

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Abstract: *The main task of the Faculty of Mechanical Engineering, Kraljevo throughout its thirty-year development has been to guide its educational and scientific research in accordance with the economic requirements, and together with the network of other engineering faculties contribute to the transformation process of the economy and domestic manufacturing. In the transitional processes, the key component is the knowledge to implement the new technologies, knowledge to implement new work models, knowledge of the technology used to create new knowledge, its distribution and practical application. It is necessary for industry and science to closer cooperate on the common task of creating the new Serbian economy based on the knowledge compatible with the economy of the European Union. In this paper we present the basic elements of the strategic development direction for the educational, the scientific and research tasks of the Faculty of Mechanical Engineering, Kraljevo, as well as its role of the creator of the regional technical and technological advancements.*

Key words: *Faculty of Mechanical Engineering, Kraljevo, European integrations, economy*

1. INTRODUCTION

The main task of the Faculty of Mechanical Engineering, Kraljevo (Fig.1) throughout its thirty-year development has been to guide its educational and scientific research in accordance with the economic requirements, and together with the network of other engineering faculties contribute to the transformation process of the economy and domestic manufacturing. In the transitional processes, the key component is the knowledge to implement the new technologies, knowledge to implement new work models, knowledge of the technology used to create new knowledge, its distribution and practical application. It is necessary for industry and science to closer cooperate on the common task of creating the new Serbian economy based on the knowledge compatible with the economy of the European Union. In this paper we present the basic elements of the strategic development direction for the educational, the scientific and research tasks of the Faculty of Mechanical Engineering, Kraljevo, as well as its role of the creator of the regional technical and technological advancements.

Programs Faculty of Mechanical Engineering, in field design in machinery:

- Railway engineering,
- Earth-moving and transportation systems (Fig.2),
- Termotechnology and environment protection,
- Automatic control and fluid technique,
- Mechanical design and mechanics,
- Computer-aided design,

Production technology:

- Computer-integrated processes,
- Design of machining processes and
- Entrepreneurial engineering and management.

The Faculty of Mechanical Engineering, Kraljevo, has achieved significant result in the Basic research, Innovation projects, and special projects that are of significance for technical, technological, and industrial development of Republic of Serbia.

