

The growing use of Study Program of Mechatronics Concepts in almost all Industrial Fields

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Abstract

The study program of Mechatronics is designed to provide students with advanced knowledge in the fields of mechanical and electrical engineering, planning of the mechatronic systems, mechatronics programming, implementation of intelligent sensors, and systems such as EMS (Electro Mechanical Systems) and MEMS (Micro Electrical Mechanical Systems); design of digital CAE (Computer Aided Engineering) factories, implementation of factory control systems, etc.

This study program fits very well with the short-term and long-term objectives to provide high quality study programs in accordance with contemporary standards and practices, while the objectives of this program follow this line. Mechatronics specialists are equipped with the skills needed to consider a wide range of areas of competence and effectively combine different aspects as required. In other words, they may think outside the proverbial box, are suitable to work as project managers, or in research and development.

The various disciplines are becoming increasingly integrated, and Mechatronic systems are becoming smaller and more compact. These systems are being increasingly used in the field of micro-technology and in other areas, such as medical technology. Mechatronics has become the key to many products and services. Modern systems nowadays have reached the level of excellence, a level that has been difficult to imagine using traditional methods. Technological changes are changing the relationships, the times, the modalities, because the concept of Industry 4.0 gives way of doing things ever faster and without the need for a physical presence of the interlocutors in the same place.

Biography

ARB NOR PAJAZITI has completed his PhD at the age of 37 years from Vienna University of Technology, Austria. He is the director of Department of Mechatronics, Faculty of Mechanical Engineering, University of Prishtina, Kosovo. He has published more than 66 papers in reputed journals and has been serving as a peer review board member of

repute MDPI Journals. He has experience in teaching since 1984, he is co-author of 16 textbooks in the field of technology, 4 textbooks. Currently, he is carrying out the research on design and construction of robots as well as application of Artificial Intelligence.