

Research groups
in the
Department of Biological and Agricultural Engineering

Bioprocess and Environment

- Design of agricultural waste handling and treatment systems
- Managing and optimizing the utilization of natural and biological resources
- Re-use and recycling of disposed materials and application to zero pollution technology
- Importance of safety and health in agricultural production activities

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Soil and Water Resources

- Design of irrigation and drainage systems
- Area development for settlement, agriculture and recreation
- Design of a mutually beneficial ecosystem of life and environment
- Study and analysis of agricultural system as an integrated component of landscape
- Monitoring and conservation of natural resources
- Sustainable development and exploitation of the agricultural ecosystem

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Bioinformation System

- Biological systems modelling to understand the mutual response between life and environment
- Bio-sensing and instrumentation for agricultural and biological material, and on production technologies focusing on harvesting, grading, processing and storage of agricultural products and foods
- Application of GIS technology for inventory, analysis and management of biological resources
- Remote sensing technology for observation and examination of the landscape and its local forms and agricultural activities

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Mechanization and Automation

- Development of agricultural mechanization systems and models
- Mechanization and machine development for a modern, high-technology farm production structure
- Design, development and adaptation of machines and dissemination of innovations capable of reducing labour, maximizing earnings and environmental friendly
- Mechatronics in agricultural and plantation based industries

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