

## **AGRICULTURAL ENGINEERING**

### **Research of Agricultural Mechanisation**

- The assessment and development of the technical conditions of environmentally friendly (differentiated, place specific and task specific) plant protection and production technology
- Quality control of the dosing regulators of sprayers
- The agricultural and communal utilization of renewable and alternative energy resources, the comparative evaluation of the indicators of their energy utilization, and demonstration at the reference spot of the department, which is a station in the international renewable energy route.
- Physical stress, including the examination of the influences of mainly electro-magnetic radiation (light, UV, VIS, IR, rays of communication equipment) on plant organizations.
- The application of microcomputers for process management and/or the collection of measurement data in various fields of agricultural sciences.