

## **Annotation**

The task of this diploma project is to develop ultrasonic tomograph for medical diagnostics states meniscus of the knee joint.

Today the question meniscus knee diagnosis is very important because health issues have always played a crucial role in everyone's life. Of particular importance it plays in the lives of professional athletes, for whom the injured meniscus - a fairly common problem.

This project is dedicated to the development of ultrasonic tomograph with mechanical scanning X axis and electric scanning the axis Y. The project was the calculation of the acoustic path selected the best materials and design of the sensor system presents an algorithm, structural, functional, electrical circuits of the ultrasound scanner. There are economic section and safety section. These guidance on control methods of the object.