Summary of discipline Intellectual Systems of Decision Making Introduction
The program of the course "Intelligent Decision Support Systems" prepared in accordance with the educational and vocational training programs specialty 7.05100306 "Information technology in instrument."
Academic discipline belongs to the cycle "Courses of free choice of students."
The object of the course is a system that can solve the problem for a specific subject area, including intelligent information systems, expert systems, settlement and logical systems, hybrid intelligent systems, intelligent systems Reflector.
Academic discipline based on previously studied courses, namely: mathematical analysis, probability theory, mathematical statistics, programming, mathematical modeling, physics, database.
1. The purpose and objectives of the course
1.1. The purpose of discipline.
The aim of the course is to develop students' abilities:
- Creation through the use of modern information technology that could simultaneously solve several problems, including: data interpretation, diagnosis, monitoring, planning, forecasting, planning and decision support;
- Building intelligent decision support systems to optimize the creation of modern instruments and measuring systems.
1.2. The main objectives of the course.
Requires educational and professional program students after mastering discipline must demonstrate the following learning outcomes:
knowledge:
- The theory of building intelligent decision support systems;
- The main tasks of developing intelligent systems;
- The principles of building intelligent systems for tools and measurement systems, including the latest diagnostics;
- Mathematical and intellectual methods of analysis of various processes in intelligent systems.

the ability to: develop expert intelligent decision-making system of forecasting and optimization.
Experience: should link these knowledge and skills within an integrated system approach to ensure a high level of scientific and technological development of devices. The systems approach provides optimal decision making, including structural and circuit design, based on the analysis of modern methods of computer devices and research facilities measurements.