

"Discipline" Microprocessors in mass measurement "is taught to students because of the extensive use of microprocessor technology in instrument. Thanks to miniature, reliability and versatility (including the price of microprocessor devices steadily decreases) microprocessor today is the element of the universal destination. Its remarkable properties make it possible to develop a variety of "smart" devices, which ensures versatility is mounted microprocessor system (MPS). Built in gauge MPS gives it a lot of new properties: It is primarily high precision measurement of parameters, simplifying management, high reliability of the self-test mode due to additional computing and service functions and so on. In the course students must:

- Learn the basic principles of using MP in mass measurement (calculation and distribution of computing power in the programming of relevant functions built-MPS, determining the structure and architecture of MPS, etc.);
- be able to justify the necessity and effectiveness of MPS in the development of new devices, choose the appropriate big integrated scheme (BIS) for the construction of "intellectual" part of the device;
- Learn the software modular structure a measuring device, learn to use a library of ready-made software modules;
- To get programming skills embedded MPS (control, computing, test or service function);

Academic discipline belongs to the cycle of disciplines of computer technology and requires prior study of the foundations of microelectronics. Learning discipline "in the OA MP" provides the basis for the study of many disciplines aimed at studying the foundations of modern devices (this is especially CAD, basic theory of construction equipment, automated instrumentation, data processing systems energy conservation, etc.).

After studying the discipline the student should be able to:

1. Obraty structure of "smart" device (measuring and intellectual parts at functional blocks) in accordance destination device;
2. Choose the most appropriate set of modules (LSI), which provide the necessary functions;
3. Work with a monitor, ensure debugging software modules and organize programming mode selected functions (work with programmer)."

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