

Process equipment control systems

(course title)

COURSE SYLLABUS ABSTRACT

1-36 01 03 – Machine-building process equipment

(speciality code and name)

	STUDY MODE
	full-time
Year	4
Semester	7
Lectures, hours	50
Practical classes (seminars), hours	16
Laboratory classes, hours	16
Exam, semester	7
Contact hours	82
Independent study, hours	118
Total course duration in hours / credit units	200/6

1. Course outline

Programming of HAAS milling, lathes. Programming HAAS CNC machines using macros.

2. Course learning outcomes

Upon completion of the course, students will be expected to know:

- features of CNC stations;
- classification, generalized structure and principle of operation of CNC systems;
- principles of CNC stations programming;

be able to:

- select a cutting tool for CNC machines;
- calculate cutting modes on CNC machines;
- develop a part machining plan for CNC machines;
- snap the tool;
- develop programs for CNC machines.

possess:

- basic programming of CNC stations.

3. Competencies

SK-6 – Be able to design machining processes on machines by selecting universal machines or forming a task to create a special machine, selecting or designing cutting tools, assigning a machining mode, lubricating and cooling means and other cutting conditions.

4. Requirements and forms of midcourse evaluation and summative assessment

– verbal-written: protection of practical classes, laboratory protection, exam.