

MANUFACTURE OF WELDED STRUCTURES

(course title)

COURSE SYLLABUS ABSTRACT

6-05-0714-03 Engineering and technical design and production of products from them

(speciality code and name)

Equipment and technology for welding production

(concentration)

	STUDY MODE		
	full-time	part-time	part-time (shortened program)
Year	3,4	3,4	3
Semester	6,7	6,7,8	5,6
Lectures, hours	68	16	16
Laboratory classes, hours	50	12	12
Course project, semester	7	8	6
Pass/fail, semester	6	6	5
Exam, semester	7	7	6
Contact hours	118	28	28
Guided independent study, hours, type/ semester	134	224	224
Total course duration in hours / credit units	252/7		

1. Course outline

The purpose of the discipline is to present the modern experience of manufacturing welded structures with extensive use of mechanization and automation of production.

2. Course learning outcomes

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

- the main ways of harvesting parts;
- technology for the production of various types of welded structures in conditions of single small-scale, large-scale and mass production;
- the principle of operation of mechanical equipment and technological lines in welding production.

be able to:

- develop technological processes for the preparation of parts, assembly and welding of welded assemblies;
- select the necessary auxiliary equipment for welding structures;
- to solve the issues of product quality assurance correctly, choosing the necessary control methods.

to possess a skill:

- choosing the method of preparation, assembly and welding of parts and assemblies, taking into account technical and economic indicators;

3. Competencies

To master the production technologies of welded structures for various purposes, auxiliary equipment, principles of calculation of structures and equipment for strength and manufacturability, taking into account the specifics of production

4. Requirements and forms of midcourse evaluation and summative assessment

The following forms are used for current certification: oral, written.

The following forms of diagnostics are used for intermediate certification: oral tests; reports on laboratory work with their oral defense.