

**BASIS OF SCIENTIFIC RESEARCH AND INNOVATION ACTIVITY**  
(name of the discipline)

**ANNOTATION**  
**TO THE CURRICULUM OF THE INSTITUTION OF HIGHER EDUCATION**

**Specialty 1-36 01 06 “Equipment and technology of welding production”**

**Direction of specialty** \_\_\_\_\_

**Specialization** \_\_\_\_\_

	Form of higher education		
	Full-time (daytime)	Part-time	Part-time reduced
Well	<b>4</b>	<b>5</b>	<b>4</b>
Semester	8	9	7
Lectures, hours	12	4	2
Report, semester	8	9	7
Classroom hours per academic discipline	24	6	4
Independent work, hours	66	84	86
Total hours per academic discipline / credit units	90 / 3		

**1. Brief content of the discipline**

The purpose of the discipline is to form a holistic view of students on the organization and conduct of research and innovation, training of scientific personnel, as well as teaching modern methods of theoretical and experimental research, processing their results and transmitting information materials.

**2. Learning outcomes**

As a result of mastering the academic discipline, the student must know:

- a system for training scientific personnel;
- methodological foundations of scientific knowledge;
- methods of scientific and technical creativity;
- methods of empirical and theoretical research;
- rules for the design of scientific materials;
- innovative developments in welding production;
- principles of labor organization in the scientific team

be able to:

- to make a literature review in the direction of the research;
- choose and justify the direction of scientific research;
- develop a methodology for conducting the experiment;
- organize and conduct scientific research;
- to issue a report on scientific research;
- prepare abstracts of the report based on research materials;
- make a presentation at a seminar or conference;
- prepare a presentation on innovative development

own:

- methods of search and processing of scientific information;
- methods of organizing and conducting scientific research;
- skills of presenting informational materials

**3. Formed competencies**

SK-17 - be able to search, systematize and analyze information on the development of new technologies, equipment and technological equipment for welding processes

**4. Requirements and forms of current and intermediate certification.**

When studying the discipline, a module-rating system for assessing knowledge is used. Used assessment tools for the academic discipline are stored at the department

