ANNOTATION
FOR THE EDUCATIONAL INSTITUTION'S PRACTICAL INTERNSHIP PROGRAM
PRE-DIPLOMA PRACTICAL INTERNSHIP
Specialization 6-05-0722-05 "Manufacturing Products Based on 3D Technologies"

	STUDY MODE
	full-time
Year	**4**
Semester	8
Total course duration in hours / credit units	216/6

1. Internship course outline (aims and objectives)

The objectives of the practice are to collect and study source materials for the diploma project at actual production sites. Pre-diploma practical training is the final stage of engineer training and precedes the completion of the diploma project. Students complete their pre-diploma practical training at organizations that correspond to the specialist training profile. The topic of the diploma project is determined by the Department of Metal Technology at enterprises, design bureaus, research institutes, or based on actual assignments from the department, enterprises, or organizations at the practical training location. The objectives of the pre-graduation internship are to master and consolidate the knowledge and skills acquired at the university throughout the course of study, to test the future specialist's ability to work independently in a specific production environment, to prepare materials for the diploma project based on real developments and production facilities through a more in-depth study of the issues posed by the students, and to acquire practical skills in modeling objects using 3D technologies, as well as manufacturing products using 3D printing.

2. Course learning outcomes:

- – to consolidate theoretical knowledge in the field of occupational safety, knowledge of the commissioning and maintenance of instruments, equipment, etc.;
- become familiar with the current state of production;
- to master practical skills in working with CAD;
- to develop practical expertise in modeling objects using 3D technologies;
- acquire social skills and abilities through participation in the social life of the team and motivation for professional activity;
- acquire language skills and abilities in compiling and defending an internship report in the established format.

3. **Competencies**

Be able to use computer software to model the main technological processes of additive manufacturing and optimize them based on the modeling results.
Know the terminology, classification, and application areas of additive manufacturing, as well as the equipment required for their implementation in a production environment.

4. Form of midcourse evaluation

The form of midcourse evaluation the intermediate certification in practice is a differentiated assessment. The final assessment is made based on the submitted report and the responses during its defense.