

## **List of subjects for “Technological processes and production automation” field of study**

1. World view security basics
2. Economic justification of project solutions
3. Mathematical modeling and information technology in design
4. Professional foreign language
5. Modern problems in programming. Software
6. Physics of coating production
7. Machine dynamics
8. Modern problems in the field of study and their solutions
9. Distributed computer management information systems
10. Theory of technological processes and production automation
11. Intelligent control systems in technical systems
12. Automated production control systems
13. Modern problems of industrial production automation
14. Automated systems for control of manufactured product’s life cycle
15. Fuzzy control theory basics
16. Formation of shared information space for virtual enterprises
17. Automated control of product life cycle
18. Methods of project solutions optimization
19. Multi-criteria methods of project solutions support
20. Mathematical and software support of automatic control systems
21. Automated development of mathematical support and algorithms for technological processes automation system
22. Computer control means and programmable controllers
23. Microcontrollers and programmable controllers
24. Production internship (internship for getting professional skills and experience in the field of study)
25. Production internship (pre-diploma practice)
26. State exams