PROGRAM LEARNING OUTCOMES

- PLO 1. To analyze, intentionally search for and select information and reference resources and knowledge required to solve professional problems, taking into account current scientific and technological achievements.
- PLO 2. To know the code of professional ethics, understand the social significance and cultural aspects of software engineering, as well as observe them in professional activities.
- PLO 3. To know basic processes, phases and iterations of the software life cycle.
- PLO 4. To know and apply professional standards and other regulatory documents in the software engineering sector.
- PLO 5. To know and apply appropriate mathematical concepts, methods of domain, system and object-oriented analysis and mathematical modeling for software development.
- PLO 6. Ability to select and use the appropriate software development methodology.
- PLO 7. To know and apply the fundamental concepts, paradigms and key operational principles of language, instrumental and computational software engineering tools in practice.
- PLO 8. To be able to develop a human-machine interface.
- PLO 9. To know and be able to use methods and tools for collecting, formulating and analyzing software requirements.
- PLO 10. To conduct a pre-project examination of the subject area and the system analysis of the design object.
- PLO 11. To select design input data using formal methods of requirements description and modeling.
- PLO 12. To apply efficient software design approaches in practice.
- PLO 13. To know and apply methods of algorithm design, software design, as well as data and knowledge structures.
- PLO 14. To apply instrumental software tools for domain analysis, design, testing, visualization, measurement and documentation in practice.
- PLO 15. To be motivated in selecting programming languages and development technologies to solve problems of creating and maintaining software.
- PLO 16. To have skills of team development, coordination, design and release of all types of software documents.
- PLO 17. To be able to apply component-based software development techniques.
- PLO 18. To know and be able to use information technology to process, store and transmit data.
- PLO 19. To know and be able to apply software verification and validation methods.
- PLO 20. To know approaches to software quality assessment and assurance.
- PLO 21. To know, analyze, select and skillfully apply information security (including cybersecurity) and data integrity tools according to the application tasks and software systems to be created.
- PLO 22. To know and be able to apply project management techniques and tools.
- PLO 23. To be able to document and present the results of software development.
- PLO 24. To be able to calculate the economic efficiency of software systems.