

ANNOTATION

INTERNATIONAL EUROPEAN UNIVERSITY



EUROPEAN SCHOOL OF BUSINESS

**Testing automation
EP «Software Engineering»**

2024



ANNOTATION



1 Course and educational program name

Testing automation (elective discipline)
EP «Software Engineering»

2 Course description

The subject of study of the academic discipline " Testing automation " is methods, tools and approaches for automating software quality control processes at various stages of its life cycle, developing automated tests, setting up automated testing environments, analyzing results and optimizing software quality assurance processes.

3 Study prerequisites

The academic discipline is related to the disciplines "Software Architecture and Design", "Analysis of Software Requirements", "Program and Data Security", "Software Quality and Testing", "Fundamentals of Software Engineering", "Computer Methods and Tools" computer technologies".

3 Department

Department of Information Technology



4 Course objectives

The purpose of teaching the academic discipline "Testing automation" is to provide students with thorough theoretical training, knowledge of test automation methods and modern tools for creating test scenarios and analyzing results, and the ability to design automated test systems, configure a test environment, and use programming languages and specialized frameworks to automate functional, regression, and performance testing...

5 The role of academic discipline in achieving Program learning outcomes (PLO)

PLO3. To know basic processes, phases and iterations of the software life cycle.

PLO4. To know and apply professional standards and other regulatory documents in the software engineering sector.

PLO6. Ability to select and use the appropriate software development methodology.

PLO14. To apply instrumental software tools for domain analysis, design, testing, visualization, measurement and documentation in practice

PLO15. To be motivated in selecting programming languages and development technologies to solve problems of creating and maintaining software.

PLO17. To be able to apply component-based software development techniques.

PLO19. To know and be able to apply software verification and validation methods.

PLO20. To know approaches to software quality assessment and assurance