Program: Vocational Education – High Tech
Course (Catalog) Title: Test Solutions For Mobile, Wearable And Web Applications
Course # 623727
Total Course Hours: 30 hours
Instructor: V. Gorlovetsky

Week	Time of Ins.	SPECIFIC PERFORMANCE OBJECTIVES
1	3 hrs.	**Foundational Concepts:** The mobile market and ecosystem/What is important to mobile users?/Mobile application and technology characteristics/Mobile data networks, mobile devices/Current mobile trends/ Web architectures and technologies
2	3 hrs.	**Web Basics:** Web architectures and technologies/Application types/IP addresses/URL and DNS/Intranet and Extranet/Web testing challenges/ Why is web testing different?/Client-side functionality vs. Server-side
3	3 hrs.	**Introduction to Mobile Devices and Apps:** Different types of apps and possible app business models/Is mobile app testing software testing or not?/Special characteristics of mobile app testing
4	3 hrs.	**Mobile Testing Challenges:** The customer, device fragmentation, sensors and interfaces, system apps, and mobile browsers/Solutions for handling those challenges
5	3 hrs.	**How to Test Mobile Apps:** Differences between emulators, simulators, and real devices/Functional and nonfunctional approaches to testing a mobile app/mobile testing using mind maps, mnemonics, and checklists to improve mobile testing efforts/Checklists for web testing
6	3 hrs.	**Mobile Test Automation and Tools:** Test automation tool types and approaches/The right tool selection/Current state of mobile test automation tools for different OSes (like, Android and iOS)/RDA services/Application store submission and testing/Availability and limitations web testing tools
7	3 hrs.	**Unusual Testing Methods: Crowd testing and cloud tests.** Mobile Testing Strategy: Ideas about and examples of how to establish mobile strategy/Mobile testing approach/Mobile test planning tips/Mobile test specifics/Mobile testing types
8	3 hrs.	**Skills for Mobile Testers:** Mobile-specific challenges for testers/Your preparedness for testing: knowledge of the device/Testing on the device and on the tool
9	3 hrs.	**Test Mobile web:** Understand web technology and mobile devices/Similarities and differences from web testing on PCs/Mobile-specific web challenges and problems/ Functional testing: links, forms, HTML
10	3 hrs.	**What is next in Mobile Testing:** Internet of Things (connected homes, vehicles), wearable, mHealth/Five key success factors/Wrap-up and concluding thoughts