Professional Development

Praxis Computer Science (5652) Exam Preparation

Online Course Description
This 20+ hour course is designed to help educators prepare for the Praxis Computer Science (5652) Exam.

Activities
- Exercises - multiple-choice, fill in the blank type questions (auto-graded) to reinforce learning
- Mini Labs - coding exercises (auto-graded)

Support
- Get email support by contacting hello@popfizz.io
- Get live chat support by clicking on the chat icon from the Dashboard.

Course Overview

Unit 1 – About the Praxis Computer Science (5652) Exam – 1 hour
1. About the exam 2. Test Objectives 3. Exam resources

Unit 2 – Algorithms and Computational Thinking – 5 hours
1. Warm-up exercises 2. Computational Thinking - Abstraction, pattern recognition, problem decomposition 3. Base conversion 4. Algorithm formats 5. Algorithm analysis, searching and sorting algorithms, recursive algorithms, and randomization

Unit 3 –Programming – 6 hours
1. Variables 2. Control structures 3. Operators 4. Classes and objects - Object-oriented concepts

5. Procedures, event-driven programs, usability
6. Data structures
7. Debugging, documenting, and reviewing code, libraries and APIs, IDEs, and programming language paradigms

Unit 4 – Data – 3 hours

1. Digitalization, data encryption and decryption, and computational tools
2. Simulation, modeling, and manipulation of data

Unit 5 – Computing Systems and Networks – 3 hours

1. Operating systems, computing systems, communication between devices, and cloud computing
2. Networks
3. Security issues and the Web

Unit 6 – Impact of Computing – 2 hours

1. Impact of computing
2. Issues regarding intellectual property, ethics, privacy, and security in computing

Unit 7 – Practice Questions – 1 hour

1. Practice Questions