

# Enhancing Student Mastery in Visual Basic Programming through 'VB Pocket': A CQI Implementation in Malaysian Polytechnic

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## Abstract

This study explores the implementation of a Continuous Quality Improvement (CQI) initiative in the DFP40233 Visual Basic Programming course at Politeknik Balik Pulau. The intervention was driven by declining student performance in applying Visual Basic.NET concepts, prompting the development of VB Pocket, a mobile learning application, alongside an integrated eBook. Post-intervention results, as evaluated through the Course Outcome Review Report (CORR) for Session II 2024/2025, revealed significant improvement in students' conceptual mastery, engagement, and practical problem-solving abilities. This paper outlines the pedagogical transformation and advocates the integration of mobile-first learning strategies in technical education.

**Keywords:** Visual Basic.NET, mobile learning, CQI, Flipped Classroom, Technical Education, Vb Pocket, Digital Pedagogy

## Introduction

Teaching programming effectively has always been a challenge, especially for beginner-level students in technical and vocational institutions. In Malaysian polytechnics, Visual Basic.NET is a core component of many diploma programs, yet students often face difficulties applying programming concepts in practical tasks. This problem is especially evident in courses like DFP40233, where topics such as control structures, debugging, and data handling require a solid understanding of both theory and application.

Over the past few semesters at Politeknik Balik Pulau, performance data showed a concerning trend: many students were unable to achieve expected outcomes, particularly in applying their knowledge to build functioning applications. This raised questions about the effectiveness of current teaching methods and the level of student engagement. Therefore, there was a real need to explore new ways to support learning, especially methods that are more accessible, flexible, and student-friendly.

This study is important because it responds directly to that need. By introducing VB Pocket, a mobile application aligned with the course syllabus, and integrating it with a Visual Basic.NET eBook, the study aims to provide a more engaging and independent learning experience. The

# Foundation Of Programming Through Basic

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