

## Learning Guide Unit 7

### Overview

#### **Unit 7: Software Quality Assurance, Security, and Ethical Considerations**

##### **Topics:**

- Foundations of Software Security
- Secure Coding Techniques
- Ethics in Software Engineering
- Regulatory Compliance in Software Development

##### **Learning Outcomes:**

By the end of this unit, you will be able to:

1. Define the foundations of software security and their impact on software development.
2. Describe secure coding techniques that enhance the integrity of software applications.
3. Discuss the significance of ethics and regulatory compliance in software engineering.