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## THE GEEK INSTITUTE

### **OF CYBER SECURITY**

Regd. By: E-Max India Centre Code: EMAX/EK80606 (Recognized By Govt. Of India)

(Building Futures Through Digital Knowledge and Innovation)

# <u>Diploma in Computer Applications (DCA) 6 Months</u> Syllabus

#### 1. Introduction to Computers

- ✓ Fundamentals of Computer
- ✓ Computer hardware and software
- ✓ Computer networks and the Internet
- ✓ Operating systems and their functions
- ✓ Basics of computer security and data privacy

#### 2. Office Productivity Tools

- ✓ Microsoft Paint
- ✓ Microsoft Notepad
- ✓ Microsoft WordPad
- ✓ Microsoft Office Word
- ✓ Microsoft Office Excel
- ✓ Microsoft Office PowerPoint
- ✓ Microsoft Office Access
- ✓ Microsoft Office Outlook
- ✓ Microsoft Copilot & ChatGPT

#### 3. Programming Fundamentals

- ✓ Introduction to programming languages Python
- ✓ Variables, data types, and operators
- ✓ Control structures: loops and conditional statements
- ✓ Functions and basic debugging techniques

#### 4. Web Development Basics

- ✓ HTML and CSS fundamentals for creating web pages
- Creating interactive web forms and validating user input
- ✓ Introduction to web hosting and domain management

#### 5. Introduction to Artificial Intelligence (AI)

- ✓ What is AI? Overview and real-world applications
- ✓ Types of Al: Narrow Al, General Al, and Super Al
- ✓ Machine learning vs. traditional programming
- ✓ Overview of popular AI tools and frameworks
- Using AI in daily productivity (ChatGPT, Copilot, DeepSeek, etc.)
- ✓ Ethical considerations and future of AI

#### 6. Final Project and Practical Applications

- ✓ Integrating concepts learned into a comprehensive project
- ✓ Developing a small-scale software application or website
- ✓ Presentation of projects and peer evaluation

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