

**Detailed Syllabus**  
**UP Police Computer Operator (Grade-A)**

**Computer Science**

Introduction:

History, Evolution and Generation of Computers, Organisation of Computer system, Hardware, Software, Peripheral Devices, Algorithm, Flowchart and Number System.

Database Management System:

Data organisation, File Management System, Database Concepts, Relational Data Model and Basic Concept of Database, Popular Database Management System- Fox pro and Oracle with SQL etc.

PC Software and Office Automation:

Office System and Procedure, the need for office automation, Electronic Capture, Storage, Graphics and Graphic User Interface, Electronic Data Interchange.

Workplace productivity Tools:

Word Processing Tools, Electronic spreadsheets, Electronic presentation tools. Microsoft Office (Word, Excel, Power Point, Access), Open Office, Using these tools in English and official Indian (Windows, Unix and Unicode Fonts), Exchange of Files across these platforms.

Computer Networks:

Types of networks, Network topology, OSI Model, Risk assessment and security measures and security issues, LAN, MAN, WAN.

### The Internet:

Working with internet, uses of internet, Search Engines, e-mail, ecommerce, e-banking and e-learning, IoT.

### Emerging Technologies and Web Publishing:

Application Software, Computer controlled devices, Artificial Intelligence, Mobile Computing, Green Computing, Operating System-Windows, Unix/Linux, HTML, JavaScript, Banking and ecommerce application

### Boolean algebra:

Boolean operators, Truth Tables, Closure property, Laws of Boolean Algebra, SOP, POS, Karnaugh map, Application of Boolean logic.

### Data Structures:

One and two dimensional arrays, Stack and queue.

### Cryptography:

Basics of Cryptography

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