

Reference Books for UGC-NET Computer Science and Application

Discrete Mathematics

1. Discrete Mathematics – **Seymour Lipschutz**
2. Discrete Mathematical Structure – **Bernard Kolman, Robert C. Busby**

Theory of Computation

1. Introduction to Automata Theory, Languages and Computation – **John E. Hopcroft and Ullman**
2. An Introduction to Formal Languages and Automata – **Peter Linz**

Graph Theory

Graph Theory with Applications to Engineering and Computer Science - **Narsingh Deo**

Computer Arithmetic

Digital Logic and Computer Design – **M. Morris Mano**

Relational Design and Database

Fundamentals of Database Systems - **Ramez Elmasri, Navathe**

Data and File Structure

Data structure using C – **Tenenbaum, Langsam and Augenstein**

Computer Networks

1. Computer Networks - **Andrew S. Tanenbaum**
2. Data and Computer Communications -**William Stallings**

Compilers

Compilers: Principles, Techniques and Tools – **Aho, Lam, Sethi and Ullman**

Operating Systems with Unix

1. Operating System Concepts – **Galvin and Silberschatz**
2. Operating Systems Internals and Design Principles -**William Stallings**
3. Unix-Concepts and Applications -**M. J. Back, S. Das**

Software Engineering

Software Engineering A Practitioner's Approach – **Roger S. Pressman**

Computer Graphics

Introduction to Computer Graphics – **Hearn and Baker, Rogers**

Programming and Algorithm

Introduction to Algorithms –**Cormen, Leiserson, Rivest and Stein**

Artificial Intelligence

Artificial Intelligence - **Elaine Rich and Kevin Knight**