

## **Syllabus For PGD Entrance Exam**

Computer system concepts, characteristics of computer, generations and types of computer, components of computer system, Booting process, classification of digital computer system, organization of computers. Input and Output devices, Storage devices.

Number System, Conversion from one number system to another, Binary arithmetic and codes, Representation of Floating point, 1's, 2's complement and signed binary numbers. Logic gates, Boolean algebra and logic design, De-Morgan Law, Karnaugh map method of simplification of logic expressions, Multiplexer, De-multiplexer.

Basic Programming Concepts, Programming Language C: Data Types, Instruction and its Types, Storage Classes, Operators and Hierarchy of Operations, Expressions in C, Control and Repetitive Statements, break, continue, Arrays, Strings, functions, pointers, Preprocessors. Data Structures, Arrays, stack, Queues.

Operating system concepts, Batch processing, Multi-programming, Time sharing; Structure and Functions of Operating System. Process Management, Memory Management, File Management and Storage Management.

Computer Network fundamentals, Types of computer Network LAN, MAN, WAN, OSI Reference model, Network Topologies, Internet Concepts, IP Address classes, Email related protocols.