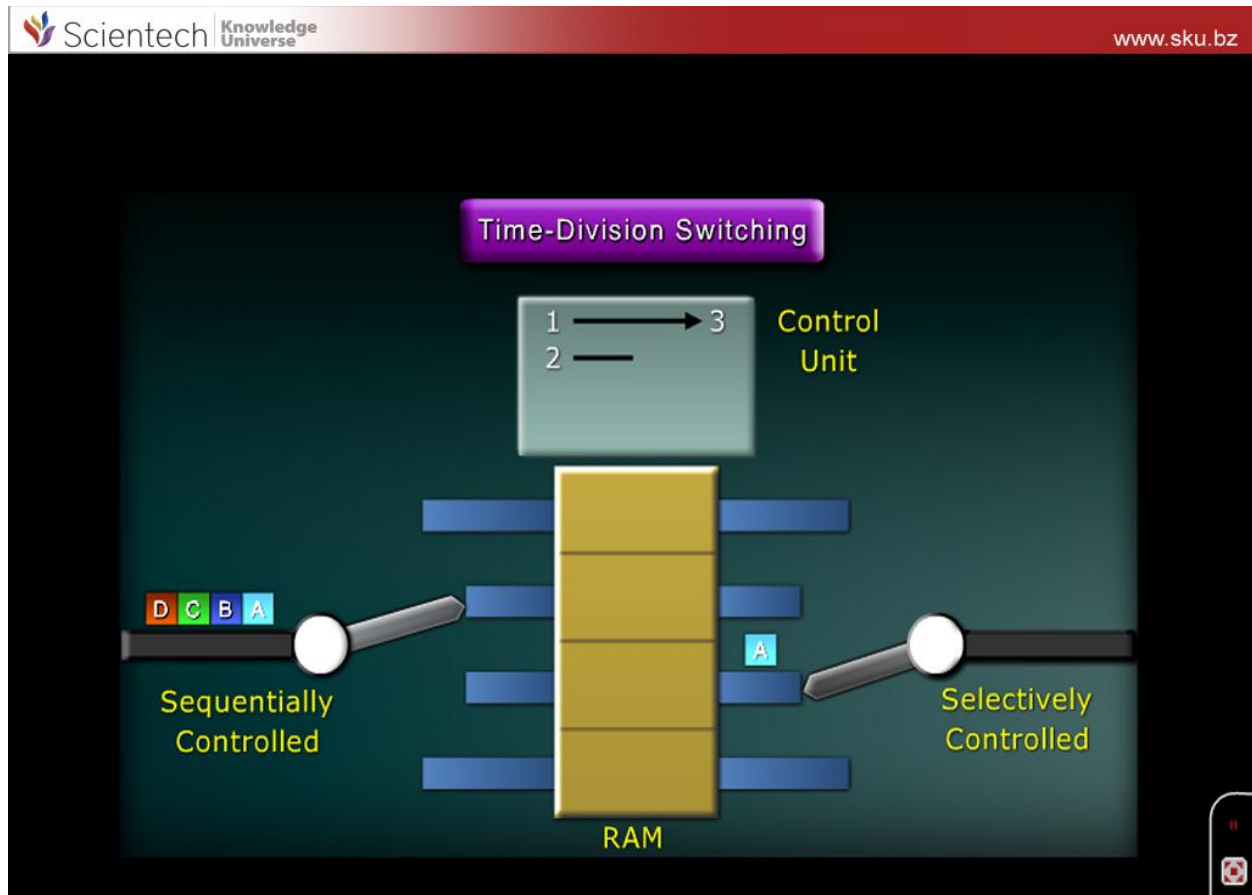


Topics Covered in SKU- Data Communication



Unit I - Basic data communication concepts

Host computers and terminal modems, parallel and serial transmission Asynchrony and Synchronous transmission. Simplex, half duplex and duplex. Front end processor, Port-sharing device, Line splitters and remote intelligent controllers. Multiplexer: TDM, FDM, VVDM. Data compression devices, Inverse multiplexer.

Unit II - Data Interfaces and Transmission

Digital interface standards; RS-232C standard, hand shaking, connecting a DTE in RS-232 C, RS-449, RS-422A and RS-423A standards. High speed desktop serial interfaces. Remote digital transmission: T carrier ISDN, Packet data networks, Digital access. Data Communication Efficiency: Modems, AM, FM, Phase modulation, multi speed modems, high speed modems, Error Correcting modems Data compression in modems. Short-wave modems, Facsimile and Fax modems.

Unit III - Data Integrity and Security

Data Integrity, Sources of error control approaches. Implementation of error Control Echo checking parity checking and cyclical purity, Hammering code, Checksums, Cyclical Redundancy check. Security and security measuring.

Unit IV - Architectures and Protocols

OSI model, Traditional communications architectures: Systems network architecture and other communication architecture Protocols: Polling and selecting, automatic repeat request common link level protocols. Binary synchronous communications characters in a BSC frame, Synchronous data link control. Protocols Converters and Code Converters TCP/IP protocols.

Unit V - Data transport Network

Packet switching, LAN and Indent working.

Print Shots of SKU- Basic Civil Engineering & Engineering Mechanics:

