# GOTT SERIES (CBT) – SYNCHRONOUS TRANSMISSION
## Model Number : GOTT-SYNCOMM-M03



**SYNCOMM**



**GOTT SERIES : COMPUTER BASED TRAINING SYSTEM (CBT) -SYNCOMM**

## DESCRIPTION

**SYNCOMM** course module covered the fundamentals of synchronous transmission, an overview of SDH as definite by ITU-T and describes the basic structure and payload capabilities of SMT-1 frame, the detail of SDH optical link and how different types of traffic are mapped into SMT-1 frame, the equipments and structure of broadband networks based on the SDH and the management and maintenance issues of SDH. In order to ease down the referencing resources in this course module, it is incorporated with some features like, Search, Book Mark, Note Creator and Vocabulary Pronunciation Assistant. Below is the list of the 6 chapters covered in this course module with its associated sub-topics:-

| CHAPTERS | | CHAPTERS | |
|---|---|---|---|
| **TRANSMISSION PRINCIPLE** | | **SDH PAYLOADS** | |
| Sub-Topics : | Bits and Bytes<br>Transmission Modes<br>TDM Multiplexing<br>2 Mbit/s Frame Structure<br>Synchronization Principles<br>Jitter and Justification<br>Transmission Networks | Sub-Topics : | Administrative Units<br>Tributary Units<br>Tributary Unit Group<br>Path Overheads<br>ATM over SDH<br>IP over SDH<br>Ethernet over SDH |
| **SDH PRINCIPLES** | | **SDH NETWORKS** | |
| Sub-Topics : | Overview of the SDH<br>Capabilities of the SDH Networks<br>SDH Optical Links<br>SDH Management<br>SDH Payloads<br>The SMT-1 Frame<br>STM Section Overhead<br>STM Payload Pointer<br>STM Payload Mapping<br>STM-n Framing | Sub-Topics : | SDH Network Elements<br>Synchronization Hierarchy<br>Timing Distribution<br>STM-1 Rings<br>STM-4 Rings<br>Protection Schemas<br>Network Architectures<br>Network Interconnection<br>Optical Transport Networks |
| **SDH NETWORK MANAGEMENT & AMINTENANCE** | | **OPTICAL LINE SYSTEM** | |
| Sub-Topics : | NMS User Interface<br>Uses of Overheads<br>Telecoms Management Networks<br>Network Maintenance<br>Alarm Indicators<br>SDH Testers | Sub-Topics : | Optical Fibre Principles<br>Dispersion of Fibre<br>Optical Loss<br>Optical Fibre Types<br>Line Systems and Amplifiers<br>SDH Optical Interface<br>Power Budgeting<br>SDH Terminals<br>Wave Division Multiplexing |


**Topics Content**


**Search**


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**Summary**

**Manuals :**
(1) All manuals are written in English
(2) Model Answer
(3) Teaching Manuals

**General Terms :**
(1) Accessories will be provided where applicable.
(2) Manual & Training will be provided where applicable.
(3) Design & specifications are subject to change without notice.
(4) We reserve the right to discontinue the manufacturing of any product.

**Warranty :**
2 Years

## ORDERING INFORMATION :

| ITEM | MODEL NUMBER | CODE |
|---|---|---|
| (CBT) SYNCHRONOUS TRANSMISSION | GOTT-SYNCOMM-M03 | 820-203 |

*Proposed design only, subject to changes without any notice.