The proposed revision of AS-level Computer Applications
Principles of revision

It is a curriculum which

- focuses on the applications of computer and/or information technology
- assumes IT skills at Level 3 of the IT Learning Targets as an entry point
- caters for a more diverse student population
- follows the trend of the latest development of information technology
- allows students to apply their knowledge and skills in real-life situations
The aim of the revised Computer Applications is to develop students’ capacity to be critical, ethical, competent and confident users and life-long learners of information technology in order to participate in a range of study, future work, and other life situation.
The current Computer Applications

- Information Processing
- The Computer System
- Operating a microcomputer
- Databases
- Internet Communication
- Word Processing
- Spreadsheet
- Graphics
The current Computer Applications

- Information Processing
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- Operating a microcomputer
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- Graphics
The Proposed Curriculum

- Computer Systems
- Office and Internet Applications
- Business Applications - Database
- SOHO Networking Environment
The Computer Systems

- Hardware components
- System Software & Application Software
The Office and Internet Applications

- Word Processing
- Spreadsheet
- Internet Applications
- Presentation
Word processing

Task-based approach

- Report writing
- Desktop publishing
- ....
Spreadsheet

• Concept and terminology of spreadsheet
• Working with multiple sheets
• Functions and data manipulation
• Pivot Table
• Macro recording
• ............
Internet applications

- Concepts and terminology
- Web services and applications
- Multimedia on the Web
- The impact and ethical use of the Internet
- ...........
Presentation

• Planning and organization of presentation
• Inclusion of multimedia elements
• Integrated use of the software
• ................
Business Applications - Database

- Data and File
- Database concepts
- The Relational Database
- Issues related to Databases
Data and File

• Data and information
• Data representation in a computer
• Accessing method
• Concepts of file organization
• .......
Database concept

- File System Data Management
- Database Management Systems and Functions
- Database Design and Modeling
- ...........
The Relational Database

- Concept and terminology
- Implementation of a relational database
- Data manipulation and extraction using SQL
- ........
Issues related to Databases

- Ergonomic issues
- Database security
- Trends in database development
- ........
SOHO Networking Environment

- Introduction to Network
- Essential elements of a LAN
- Examples of LAN
- LAN Design, Management and Security
Introduction to Network

- Concepts of network
- Concepts of data transmission
Essential elements of a LAN

- Physical components
- Network Operating System
- Protocols
- ……..
Examples of LAN

- Ethernet Network
- Wireless Network (WLAN)
- Virtual Private Network (VPN)
LAN Design, Management and Security

- specifications of a network ...........
- trouble-shooting, LAN management ....
- access control, firewall, data encryption, digital certification ........
Structure of the curriculum

<table>
<thead>
<tr>
<th>Module</th>
<th>Curriculum Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Systems</td>
<td>~ 10 %</td>
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<tr>
<td>Office and Internet Applications</td>
<td>~ 30 %</td>
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<tr>
<td>Business Applications – Database</td>
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<tr>
<td>SOHO Networking Environment</td>
<td>~ 25 %</td>
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<tr>
<td>School-based Assessment</td>
<td>~ 10 %</td>
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Thank You!