

CURRICULUM FOR  
**COMPUTER EDUCATION**

GRADES VI - VIII

2006



**GOVERNMENT OF SINDH  
EDUCATION & LITERACY DEPARTMENT  
BUREAU OF CURRICULUM & EXTENSION WING SINDH  
JAMSHORO**

**MINUTES OF THE CURRICULUM REVIEW  
(COMPUTER EDUCATION GRADE VI-VIII)**

Bureau of Curriculum & Extension Wing Sindh, Jamshoro organized three days Workshop on Review of Curriculum regarding “Computer Education Grade VI-VIII” at Government Elementary College of Education (Men) Hyderabad from 12 to 14 November, 2014.

In this review workshop following Members of Provincial Curriculum Review Committee reviewed the Curriculum of **Computer Education Grade VI-VIII** in the light of notified terms of references (TORs) by Education & Literacy Department, Government of Sindh, Karachi and prepared recommendations/ Addendum copy enclosed:

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### Specific Observations and Recommendations

Page No.	Existing	Modified/Revised/Inserted/Removed	Updated	Remarks /Justification
iii	Introduction to windows	Modified	Introduction to Operating System (Windows Latest Version)	Windows is specific
iii	Grade VIII, Unit 1: Networks and Communications	Modified	Computer Networks and Communication	More appropriate
iii	Unit 5. Number System (Grade VI) <ul style="list-style-type: none"> <li>• Binary</li> <li>• Decimal</li> <li>• Octal</li> <li>• Hexa decimal</li> </ul>	Inserted		It is prerequisite
iii	Unit 6. Digital Logic (Grade VII) <ul style="list-style-type: none"> <li>• Logic levels (ON, OF)</li> <li>• Fundamental Logic gates (Not, OR, AND)</li> <li>• Fundamental Logic Operation</li> </ul>	Inserted		It is prerequisite
2	Identify ways to safeguard against computer threats and viruses.	Modified	1.10. Identify ways to safeguard against computer protections threats and viruses.	Modified & included as a benchmark in order to maintain the consistency in SLO's.
4	b) System unit: <ul style="list-style-type: none"> <li>• Processor</li> <li>• Motherboard or System board</li> <li>• Memory</li> </ul>	Modified	Central Processing Unit (CPU)	More appropriate

4	Evolution of Computer technology	Inserted		Logically missing component
4	Floppy drive	Removed		Obsoleted
4	Explain the difference between hardware and software.	Modified	Explain the difference between hardware, software (System software, Application Software)	To show the progression and comprehension in grade level
5	Computer password	Inserted		To follow-up the benchmark
8	<p>iii) Know the principal means of connecting to the Internet:</p> <ul style="list-style-type: none"> <li>• Telephone (dialup) modem</li> <li>• DSL</li> <li>• Cable modem</li> </ul>	Updated	<p>iii) Know the principal means of connecting to the</p> <ul style="list-style-type: none"> <li>• Cable modem</li> <li>• DSL</li> <li>• Wifi</li> <li>• GSM Modem (Evo USB)</li> </ul>	Obsolete
8	Web page is a document on the web	Modified	Define Web page	More appropriate
8	Use Internet Explorer to access and view different Web pages.	Updated	iv) Use web browser (Google Chrome, Mozilla Fire Fox, Internet Explorer) to access and view different Web pages.	To fulfill the need of benchmark
8	Define Search Engine	Inserted		Missing information
8	Social Media (Facebook, Twitter, What Apps, LinkedIn) for academic	Inserted		To enhance the knowledge

	purposes			
9	ii) Recognize and explain: <ul style="list-style-type: none"> <li>• Motherboard</li> <li>• Processor: <ul style="list-style-type: none"> <li>○ Control Unit</li> <li>○ Arithmetic Logic Unit</li> </ul> </li> </ul>	Modified & Updated	ii. Recognize and explain motherboard: <ul style="list-style-type: none"> <li>• Processor(registers, Arithmetic &amp;logic Unit and Control Unit)</li> <li>• RAM</li> <li>• ROM</li> <li>• Ports &amp; Slots</li> </ul>	Correction
9	1.2 Cutting Edge Technologies (Barcode Reader, Fingerprint reader, Robot)	Removed		It is going to burden on students not only on students but on teacher as well.
10	vi. Define utility programs and explain: <ul style="list-style-type: none"> <li>• File manager</li> <li>• Image viewer</li> <li>• Disk scanner</li> </ul>	Inserted	<ul style="list-style-type: none"> <li>• Firewall</li> </ul>	To follow-up the benchmark
13		Inserted	Gmail	Updated example
15	Networks Communication	Revised	Computer Networks & communication	More appropriate
15	MAN	Removed		Obsolete
15	GSM Modem	Replaced		Latest technology replace by Dialup modem because its Obsolete
15	Switch	Inserted		Latest technology
15	Wifi	Inserted		Latest technology
16	ii) Know that a virus, worm and adware can spread through:	Removed	ii) Know that a virus, worm and adware can spread through:	Because floppy drive is obsolete

	<ul style="list-style-type: none"> <li>• Infected flash drives or floppy disks</li> </ul>		<ul style="list-style-type: none"> <li>• Infected flash drives</li> </ul>	
19	Avast antivirus	Inserted		Additional updated example
19	<p>5.2 Programming in BASIC Get familiar with the use of:</p> <ul style="list-style-type: none"> <li>• Basic commands LIST, RUN, LOAD and SAVE</li> <li>• PRINT statement, to display text on the screen</li> <li>• INPUT statement, to accept data</li> <li>• READ and DATA statement, to take input</li> </ul> <p>ii) Assign a variable to an arithmetic expression</p> <p>iii) Write a program to solve a problem, like:</p> <ul style="list-style-type: none"> <li>• To find the sum and average of five given Numbers</li> </ul>	Updated	<p>Programming in C Language (Basic Construct on C Language)</p> <ul style="list-style-type: none"> <li>• Variable &amp; constant</li> <li>• Data types</li> <li>• main()</li> <li>• printf()</li> <li>• scanf()</li> <li>• getch()</li> </ul> <p>PRINT statement, to display text on the screen</p> <ul style="list-style-type: none"> <li>• INPUT statement, to accept data</li> <li>• READ and DATA statement, to take input</li> </ul> <p>ii) Assign a variable to an arithmetic expression</p> <p>iii) Write a program to solve a problem, like:</p> <ul style="list-style-type: none"> <li>• To find the sum and average of five given Numbers</li> <li>• Numbers</li> </ul>	Appropriate language
19	IF-THEN-ELSE statement	Removed		It is going to burden on students
20	To display the larger one out of the two given unequal numbers	Removed		Unnecessary

## **Recommendations**

After thorough discussion during the review of Curriculum of Computer Education Grade VI-VIII, the committee has arrived at to recommend that:

1. The required infrastructure be provided for the implementation of this reviewed curriculum.
2. The resource persons (Teachers & Technical Staff) be competent & well trained and easy going in nature.
3. The well-established laboratories with proper environment, teaching aids, updated equipment be provided
4. DSL & Wi-Fi facility for IT environment be given compulsorily
5. Textbook, Writers, Editors be given orientation to fulfill the requirement for the implementation of Curriculum optimally
6. It is strongly recommended that the Curriculum of Computer Education be implemented as early as possible (for Academic year 2015-16) on top priority basis, so that our nation can come in the field of information technology in parallel to other education streams
7. Teacher guide should proposed for teachers training (orientation) before implementation of Computer Education Curriculum.