

# **Syllabus**



**Silk Road International School**

**10<sup>th</sup> Grade ICT**

**For School Year 2013-2014**

# CURRICULUM CONTENT

## 1. Computer Hardware (mount, demount)

- CPU, HARDDISK
- MOTHERBOARD, COOLER, RAM
- POWER SUPPLY
- NETWORK CARD

## 2. Storage and Output Devices

- DVD RW, HDD
- MONITOR, PRINTER
- SYSTEM CASE

## 3. Installing Operating System

- Installing Windows
- Formatting Hard drive, Startup Disk (Content)
- Backup data, Restore options

## 4. Configuration Operating System

- Control Panel
- Installing Correct Drivers
- Restoring Hardware conflicts

## 5. Fundamentals of Networking

- What is Network?
- Network Types
- Hub/Switch, UTP cables and connectors, Network crimper

## 6. Network Configuration

- Modifying network configuration
- Determining TCP/IP address
- Computer Name, Workgroup name
- File Sharing

## 7. Protecting Computer Data

- What is Virus and Antivirus?
- Scan, Clean
- Update virus signatures

## **USEFUL SOFTWARE**

### **1. Data compressing and PDF format**

- Winrar Archivator
- Read, Convert PDF files
- Adobe Acrobat Reader
- Copy data from PDF files

### **2. Multimedia Programs**

- Video Players
- Video Codecs
- Video Editors

### **3. Movie Maker**

- Introduction to Movie Maker
- Extensions that Movie maker can use
- Importing video, photo, and audio
- Output video

### **4. Presentation program Proshow Gold**

- Introduction to Proshow
- Adding pictures, Slide options: Slide, Layers, Effects, Captions, Sounds.
- Slide Transitions
- Using Styles, Adding and Editing Menu
- Creating output.

### **5. Data Burning to External Storage devices**

- Data burning with Nero
- Add new Virtual Drive
- Working with images (\*.iso)

### **6. Data Searching and Recover**

- Using Browser
- Everest, Avafind and Getdata back

## **HOW TO PREPAPE PERSONAL WEB SITE**

### **1. Introduction to Web Page**

- New page, Clone page
- Import HTML page
- Page properties, Background
- Appearance, Page transition, password protection

### **2. Hyperlinks**

- Hyperlinks, Link type, Using Shapes
- Navigation bar properties (Layout, Font style)

### **3. Hyperlink options**

- Include on all Pages
  - Explaining Target frames (blank, parent e.t.c)
- 4. Working with Pictures**
    - Insert from file
    - Picture formats, making thumbnail
    - Show/hide grid, snap to grid
  - 5. Working with components**
    - Marquee tool
    - Flash Movie
    - Flash Slideshow
  - 6. Extra Web Components**
    - Rollover Image
    - Javascripts
    - Audio, Video
  - 7. Using Tables, Horizontal Line**
    - Insert Table
    - Merge Cells, Split Cells
    - Insert Horizontal Line
  - 8. Using Template, Publishing**
    - Save as Template
    - Open New Site from Template
    - Publishing

## **VISUAL PROGRAMMING LANGUAGE – VISUAL BASIC**

- 1. Introduction to Visual Basic**
  - Forms, saving and opening project
  - Visual Basic Screen and Toolbars
  - Sample project
- 2. Command Buttons, Text Boxes, Program Icon, Codes**
  - Adding text boxes and command buttons
  - Caption, Usage of "&"-ampersand
  - Text, Name prefixes, ForeColor, MultiLine
  - Font, BackColor, Adding program icon
- 3. Scrollbars, Labels**
  - Changing Label value and Back color of the form by using Scrollbars
  - Horizontal & Vertical Scrollbars

#### **4. Check Boxes, IF condition**

- Textbox control with Checkboxes
- Checkbox properties: Caption, Value
- Textbox property: Enabled, Conditions: If, Then, Else

#### **5. Option buttons, Frames**

- Form control with Option buttons
- Option button & frame properties: Caption, WindowsState
- Backcolor, Group option buttons with frames
- Compare Option buttons with check boxes.

#### **6. Menu Editor, Adding new form**

- Making menus & submenus with menu editor
- Shortcuts, menu orders
- Properties: Caption, Show, Hide, Checked,
- Form name vs. Me. Unload.

#### **7. Message boxes, Input boxes**

- Showing text with message boxes
- Entering text with input boxes and showing it on text boxes