Orientation Programme for
Sri Lanka Principal Service Officers

Personality & Leadership Development
Communication and Collaboration

1.2.10 – Emerging Communication Technologies

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Emerging Technologies in Education Landscape

• The educational landscape is witnessing a drastic change due to the use and integration of emerging technologies.
• Though these changes are revolutionary, they are still far from being transformative because the gap between the technologies our students are using out of school and the ones they have access to inside the walls of school is widening.
Why Emerging Technologies?

• With the advent and massive uptake of new emerging technologies, there appears a new learning culture, one which catalysts the culture of 21st century learners, the schools should encourage and cultivate.

• Present generation can not be separated / alienated from emerging technologies. It is very much a part of their everyday life.
Where to use new Technologies?

- Leading School Management
  - Email, Database Management, HRM, Research, Knowledge / information Sharing,
- Leading Teaching / Learning
  - Web Based Learning / Learning Management Systems / Streaming Video / Social Media / Blogs / Power Point Presentations
- Leading / Co-curricular Activities
  - Videos / Web / Social Media
Some of the Emerging Technologies in Education

- Cloud Computing
- Mobile Technology
- Tablet Computing
- Game Based Learning
- Learning Analytics
- Virtual and Remote Laboratories
- Social Media
Technology in Leading Teaching and Learning
Use of emerging technologies in education

• Exploiting Student Interest
• Maximizing the student / teacher potentials
• Find innovative teaching methods
• Providing learner friendly, technologically enabled learning environments
• Improving efficiency in management
What can you say about the learning take place here?
This is what takes place outside your school......

• Whether you know it or not and you like it or not, this is what happens outside your school
• Your students are exposed to a vast ocean of knowledge and information through a multitude of digital equipment. They use them for many activities, such as playing games, watching videos, listening to music etc.
Do you want to stop this? Can you stop this?
What do you think of the learning take place here?
Align student interest into learning

- Exploiting the child’s interest
- Bridge the gap between use of technology inside and outside the school walls
- Use modern state – of – art technology in learning
- Raise the level of knowledge through technology based activities
- Inspire students to find new knowledge
- Expose them to the world through technology
- Self directed learning
- Learner leads his/her own learning
Scaffolding student learning

Level of knowledge require facilitation (Potential)

Zone of proximal development

Level of knowledge that the student generate independently

Level of knowledge the student has at the initial state (Actual)
Technological Innovation

• Technological innovations affect all aspects of our lives, personal and professional.
• The children of today are the leaders of tomorrow
• How can we best prepare our students to be informed, conscientious leaders in a technologically advanced society?
Equal / Fair Access to Educational Technology

• Are children in lower socio-economic strata at a potential disadvantage regarding technological advances?
• How do you propose to bridge the gap?
Educational Technology on student achievements

• What effect will educational technology have on student achievements?

• Will regulations determine what technology will be available to deliver education?

• How will the No Child Left Behind legislation affect how technology is utilized in the classroom?
Teacher Competencies on Educational Technology

• What qualifications will be required of teachers in a technologically advanced classroom?

• How can we ensure adequate teacher preparation?
Role of the School & Community

• A student without the access to the latest technology skills classes will not be employable in future markets.

• Schools & communities must provide technology hardware in sufficient quantities and of advanced quality so that highly qualified teachers may educate their students.

• Schools must provide resources in order that teachers may pursue continuing professional development in the area of technology skills and instruction.
Problems in technology integration

• Lack of Hardware / Software
• Lack of Competent Human Resources
  • Teachers, ISAs,
• Resources being underutilized
  • Hardware / Software / People
• Expenditure Prioritizing
  • Spending funds for unnecessary things
Leading school management

The Role of Technology
Resource Management

- Time Resource Management
  - Preparing Time Table
  - Relief period allocation
  - Staff attendance and leave
- Physical Resource Management
  - Resource allocation (equipment, learning space)
- Human Resource Management
  - Academic / Non academic staff
  - Outside Resource Persons
School Information Systems

• Education Management Information System (EMIS)
  • Student Databases
  • Academic / non Academic Databases
  • Resource Person Databases
  • Physical Resource Databases
  • Past pupil Databased
  • Parent Databases
  • Past records on results / achievements
Functions of EMIS

• Issuing leaving / Character certificates
• Internal Auditing
• Inventory Balancing
• Results Analysis
• Report Generating
• School Accounts
• Writing Checks
Essential Communication in Leading a School

- Communication with stakeholder community
  - Students
  - Teachers
  - Parents
  - Past Pupils
  - Senior Management
  - Political Leaders
  - Well wishers
  - World community
Communication with School community

- E-mail
- SMS
- Skype /YouTube
- Twitter /Facebook
- Mail Merge
- Envelop printing
- School Web
- Appreciations / Complaints
- Suggestions
Group Activity

- Discuss in groups what challenges you will face in integrating emerging communication technologies in school management as well as in teaching learning process and what measures you will be adopting in overcoming such challenges.
- Based on your discussion prepare an action plan on technology integration and present it to the class.