



ICT in Education in Nepal: Policies and Programs

Presentation Material for Knowledge Sharing Workshop
(Nov 9-11, 2016 Seoul)

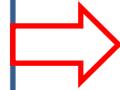
Presentation
Government of Nepal
Ministry of Education

06/11/2016

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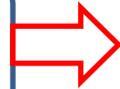
Some Policy Provisions in ICT in Education

IT Policy (2010)



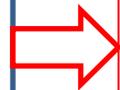
- Expansion of access of the Internet to all schools;
- develop skilled human resources
- special IT programme for students, teachers and schools

SSRP- (2009-2015)



- Expansion of ICT assisted teaching/learning in all schools

Periodic Plan
(2011-2013)



- Integrating ICT in all aspects of education
- Using ICT in education to increase access to quality education in rural areas

Policy Provisions: ICT in Education Master Plan (2013)

1. Goals

- To expand equitable access to education
- To enhance the quality of education
- To reduce the digital divide;
- To improve the service delivery system in education

2. Scope of the Master Plan

- School Education AND higher edu
- Teacher Education and Training
- Continuing education and LLL
- Education management system

3. Includes 4 major components

- a) Devt f ICT infrastructure;
- b) Devt of human resources,
- c) Devt of digital learning materials
- d) Improving edu management system.

ICT in Education Master Plan (2013): Component 1- Infrastructure

1. ICT equipment
multimedia in
classrooms

- Provision of computers & eqpt
- Videos / DVDs as alternate options

2. Connectivity

- Programs for connectivity in schools
- Network of educational institutions

3. Virtual data centre /
resource sharing
platform

- a) virtual cloud based data centres
- b) a total repository of educational contents (multimedia / e-library)

ICT in Education Master Plan (2013): Component 2- HR Development

1. ICT Teachers

- Teachers and mentors / managers of IT matters in the schools

2. ICT Trainers

- at least one ICT Master Trainer in each of the ETCs

3. Content developers

- a) In-house experts
- b) outsourcing

4. Central management

ICT skilled human resources to manage the digital contents

Teacher Competency Framework (2016): Introduction

1. Objectives

- To guide teacher preparation, licensing, selection and development process

2. Eight competency areas

- Content K; PK; knowing learners; managing learning; communication; CPD; legal matters; ICT

3. Integration and Separate area

- a) ICT integrated in other areas
- b) One specific area for ICT

Teacher Competency Framework (2016): ICT specific provisions

1. Using ICT for T/L

- Competent to select, use instructional strategies with appropriate use of ICT

2. Designing materials

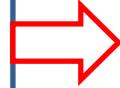
- Competent to design appropriate materials for instruction; use it for communication; giving feedback.

3. Act professionally

- a) Update oneself on the development of ICT
- b) Act accordingly

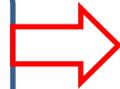
Programmatic Provisions

One Laptop Per Child (OLPC)- 2007



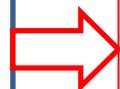
- pilot program in 26 primary schools of 6 districts; in collaboration with an NGO

Developing computer infrastructure



- Matching grant of NRs 200,000, from the govt., school's share NRs 40,000, (for 4 computers and one printer)

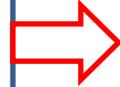
Teaching /Learning Materials



- Interactive digital learning materials- grades 2-6; (mathematics, science, English, Nepali)
- Mobile Aps
- Use of ICT in the Learning process (as a tool for learning)

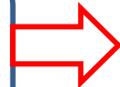
Courses on computer science / IT

Elective Subject in
Sec Curriculum



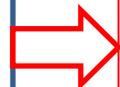
•Computer Science one of the elective subjects; Some schools in urban area offer the course.

Courses in Higher
Education



•Bachelors and Master Courses on computer Science; IT; software development; etc.

Teacher
Preparation
courses



•Bachelors' of Education course in in computer science.

ICT In School Sector Development Plan (SSDP)

- The **SSDP** (2016-2023) is under implementation from this year; It sets directions and allocates resources for the development of education.
- It considers ICT skills as one of the essential skills for improving quality and relevance of education.
- It has targeted to establishing 1,000 model schools: with required learning environment including ICT facilities.

Strategic Interventions in SSDP: Improving quality education (related to ICT)

TEACHING

Improved T/L process

Teacher Preparation

Improving teacher capacity; resources for teachers;

Digital T/L materials

Interactive materials and classes; videos, online/ offline modules/ kits for teaching science, maths and English

PLANNING

Plan and timeline for assimilating ICT in a systematic way in school education; ICT enabled T/L environment : ICT lab in 1000 schools.

SSDP's major interventions in ICT

- Provide ICT teaching-learning materials to strengthen teaching interactive approaches.
- Establish ICT learning centres in model schools.
- Prepare ICT teaching and learning materials initially for science, maths and English.
- Provide ICT infrastructure and teaching-learning materials.
- Implement unified accounting software (CGAS) in MoE's system. Introduce school based integrated EMIS, including an Equity Index, school profiles and unique student IDs.