


Using ICT as an enabler for
Empowering Educators



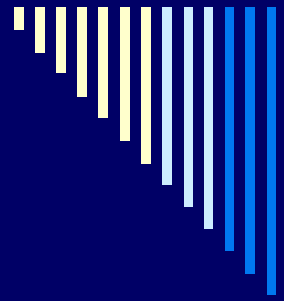
The context - Education

- ❑ Educational institutions cannot afford to ignore the accelerating technological advancement.
 - ❑ Education has to create the future workforce, which will need digital literacy as much as the 3Rs.
 - ❑ ICT4E radically alters the manner in which students learn and teachers teach.
 - ❑ ICT plays an important role in building a **community** of empowered educators.
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The Context - Teacher Education

- ❑ **Teacher education institutions need to empower in-service and pre-service teachers with knowledge, skills and attitudes to work in “Smart Schools”**
 - ❑ **Integrating technology in the classroom redefines established teacher-learner relationships and teaching-learning styles**
 - ❑ **ICT facilitates building and strengthening synergies between Pre-Service and In-service sectors by creating empowered teachers, collaborations, networking, enriched teacher training, providing opportunities for increased dialogue, sharing of ideas and resources, etc.**
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What ICT Brings to Classroom

- ❑ **Shared Learning Resources**
- ❑ **Shared Learning Spaces**
- ❑ **Promotion of Collaborative Learning**
- ❑ **Move Towards Autonomous Learning**



Various Aspects of ICT4Education

- **As a curricular subject**
 - in schools
 - higher education
 - teacher education
 - **As a pedagogic tool**
 - Productivity tool
 - great source of information
 - Shared spaces for interaction and collaboration
 - Tools for authentic assessments
 - **As a research tool**
 - great source of information
 - Software packages geared towards research
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ICT4Teacher Education

☰ Teacher Educators need to

- ☰ Make ICT an important part of their professional lives – using it for teaching / learning, research, networking, advocacy, community building, etc.
 - ☰ Model technology integration for student teachers as empowered teachers of future
 - ☰ Train student teachers on technology skills & techno-pedagogy
 - ☰ Find innovative ways of using ICT in subject specific learning
 - ☰ Use technology to transform learning cultures and institution building
 - ☰ Use technology as a research tool
 - ☰ Conduct and encourage research on technology integration in education
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ICT as a Pedagogic Tool

- ❏ Learning by doing rather than rote learning
 - ❏ Transacting content through websites, packaged or customized multimedia
 - ❏ Student participation in-built in pedagogy
 - ❏ Opportunities of collaborative learning
 - ❏ Enhance higher order thinking skills – creativity, critical thinking, etc.
 - ❏ Online sharing of ideas, experiences and resources and forming communities of like-minded educators
 - ❏ Student assignments
 - ❏ Self directed autonomous learning
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Benefits of ICT in Teaching / Learning

- ☐ Explore information dynamically & in many forms
 - ☐ Communicate effectively about complex process / abstract concepts
 - ☐ Self paced learning; multi-modal instruction
 - ☐ Opportunities for flexible & interactive learning
 - ☐ Collaborative learning
 - ☐ Enhance Problem solving skills
 - ☐ Address different learning styles
 - ☐ Provide real time assessment and feedback
 - ☐ Obtain contextual learning assistance
 - ☐ Create innovative learning environment
 - ☐ Facilitate any time and any where learning
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Systemic barriers in the use of ICT4E

- Access is expensive.
- Ensuring equity of access is difficult.
- Retraining teachers to use the new technology is complicated and costly
- Inappropriate content on the Net poses problems.



Some Suggestions

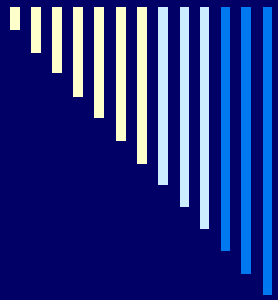
- ❏ Need to generate awareness about ICT at grassroots level (Workshops at district, village, school level)
 - ❏ Incorporating ICT in curriculum at different levels
 - ❏ Building capacity for teaching ICT related subjects
 - ❏ Generating ICT supportive environment in educational institutions
 - ❏ Filling the gaps in pre-service to make in-service training more useful and focused
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Conclusions

Teacher Education & Technology Integration:

- 📄 Develop world class quality teachers
 - 📄 Develop suitably empowered teachers as demanded by the school sector
 - 📄 Make the leap towards constructivism
 - 📄 Mainstream technology integration in educational research
 - 📄 Develop the theory and practice of technopedagogy
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Thank You
