Guidance Note 10
Prioritising effective and appropriate teacher training

From the Report: Education for the most marginalised post-COVID-19: Guidance for governments on the use of digital technologies in education

ACT THREE (OF THREE): GUIDANCE NOTES

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Professional Centre for Teachers in Lusaka. (Source: Tim Unwin, 2001)

Context

COVID-19 has highlighted the very important roles that teachers and facilitators have in supporting learning, but also the huge dearth that many also have in terms of understanding and experience of using digital technologies effectively to support learning. All too often during the pandemic, teachers have tried to ‘teach’ the same old way but with new technologies. In most cases this has resulted in depressing failure.

There have long been calls for teachers in Africa and Asia to be trained effectively in ways of using digital technologies, but governments have frequently chosen instead to roll out

1 Lead author Tim Unwin.
computers or laptops in schools, without sufficient attention being paid first to training teachers in their appropriate and effective use. The worst examples have even sought to replace teachers completely with digital hardware and imported video content, on the grounds that teachers are insufficiently competent to teach pupils effectively. Globally, it is estimated that around 15% of teachers in primary education are untrained, with the figure rising to about 30% in the least developed countries.  

Four main reasons help to explain why there has often been greater emphasis on getting digital technologies into schools rather than first training teachers effectively in their use:

- The promotion of a false belief — and wishful thinking — that digital technologies can solve all the problems of education without the need for teachers.
- The school market is very much larger than the teacher training market, and companies interested in short-term gains have therefore been much more eager to sell ‘kit’ to large numbers of schools, rather than investing in the relatively small numbers of teacher training institutions.
- The belief that young people can use digital technologies better than teachers, which is often not true but always serves significantly to demotivate the latter. This failure is not a failure of teachers, but rather one of insufficient training for them in how to use these technologies effectively to support learning.
- Many governments have also been eager to use digital technologies in schools to promote their political agendas. Giving children tablets is a very obvious material way in which governments can be seen to be providing largesse, especially in the run-up to elections.

In contrast, countries with successful education systems always have motivated, well-respected teachers, who understand that learning is more important than the technologies used to craft knowledge (see for example, Finland). Transforming teacher education is therefore one of the most important parts of the much wider social and cultural transformation of pedagogy and learning summarised in Section 12 of this Report.

In practice, teachers and facilitators should be encouraged to think clearly about, and gain relevant experience, in four main areas:

- How to use digital technologies to support their own learning about both pedagogy and subject content.
- How to use them to support and facilitate learning by pupils and students.
- How to use them effectively in formative and summative assessment.
- How to share material and ideas with their peers.

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Guidance

Teachers and facilitators are of central importance in all education systems. Governments should therefore prioritise appropriate pre-service and in-service teacher professional development to ensure that:

1. Teachers are appropriately trained to use digital technologies to support all aspects of their own learning and teaching, rather than merely to gain basic digital skills.
2. Integrated pre-service and in-service training programmes in the appropriate use of digital technologies are implemented for all educators and facilitators in public schools, colleges and vocational training establishments.
3. Schemes are implemented to ensure that all teachers can afford devices and connectivity in their homes or hostels.
4. Appropriate and reliable infrastructure (internet connectivity, electricity, devices and digital content) is provided first to teacher training institutions and only then rolled out to schools.
5. Digital technologies are used as a means to help transform pedagogy, rather than as an end in themselves.
6. The use of digital technologies for learning is integrated across the school curriculum, and not taught merely as a subject in itself.
7. Teachers are closely involved in the design and crafting of relevant training programmes for them on the use of digital technologies.
8. Safety, security and privacy are featured prominently in all training relating to the use of digital technologies.
UNESCO’s ICT competency framework for teachers

Recognising that it was important for there to be clear global guidelines for teacher competency in the use of ICTs, UNESCO and its private sector partners initiated the development of a competency framework in the mid-2000s, which was first published in 2008. As the use of digital technologies in education has evolved, this has been revised twice, with version 3 being made available in 2018. This latest version links the framework explicitly to the UN’s Agenda 2030 for Sustainable Development, and includes a focus on inclusive education and Open Education Resources. It also emphasises the need for teachers ‘to help students become collaborative, problem-solving, creative learners and innovative and engaged members of society’.

The framework identifies six areas of a teacher’s professional practice, and three successive stages of development in making pedagogical use of ICTs as outlined below:

<table>
<thead>
<tr>
<th>Area</th>
<th>Knowledge acquisition</th>
<th>Knowledge deepening</th>
<th>Knowledge creation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Understanding ICT in education</td>
<td>Policy understanding</td>
<td>Policy application</td>
<td>Policy innovation</td>
</tr>
<tr>
<td>Curriculum and assessment</td>
<td>Basic knowledge</td>
<td>Knowledge application</td>
<td>Knowledge society skills</td>
</tr>
<tr>
<td>Pedagogy</td>
<td>ICT-enhanced teaching</td>
<td>Complex problem-solving</td>
<td>Self-management</td>
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<tr>
<td>Application of digital skills</td>
<td>Application</td>
<td>Infusion</td>
<td>Transformation</td>
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<tr>
<td>Organisation and administration</td>
<td>Standard classroom</td>
<td>Collaborative groups</td>
<td>Learning organisations</td>
</tr>
<tr>
<td>Teacher professional learning</td>
<td>Digital literacy</td>
<td>Networking</td>
<td>Teacher as innovator</td>
</tr>
</tbody>
</table>


Examples

Examples of interesting initiatives that have sought to train and support teachers in their appropriate use of digital technologies include:

- Rwanda ICT essential for teachers course https://www.oercommons.org/groups/rwanda-ict-essentials-for-teachers-course/1207/?__hub_id=32.

Suggested further reading

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