

**People's Democratic Republic of Algeria**  
**Ministry of National Education**  
**National Institute of Research on Education**



**A report on the activities of the national seminar entitled: The Integration of Information and Communication Technologies in Teaching in the Education sector. What Pedagogical Practices for a Digital School?**

**November 16<sup>th</sup>, 2021**

The National Institute of Research on Education organized on **November 16<sup>th</sup>, 2021** a national seminar entitled: **“The integration of information and communication technologies in teaching in the education sector. What pedagogical practices for a digital school”**, it was attended by the directorate inspectors at the ministry of national education, inspectors, higher education professors and researchers from different research centers.

The Activities of this seminar started with an opening word given by the Director of the National Institute of Research on Education Professor **Bernaoui Radia** where she welcomed the honorable audience and pointing out the importance of technology in the education sector and asserting the interest of the ministry of education and the National Institute of research on Education in research and development in technologies of education to announce the actual start of the seminar works that included three sessions.

The professor **“Mbarek Bahri”** presided **the first session** entitled: **“ information and communication technologies between awareness raising and practice in school context”**, the first intervention was given by professor **“ Nouri Keltouma”**-Moulay Taher University-Saida, entitled: **“The pedagogical importance of integrating information and communication technologies in school context”** followed by the second intervention of the researcher **“ Hambli Charef”**- International consultant in training- entitled **“ raising awareness on the use of technology in class”**, afterwards a communication was given by a researcher: **Salmi Louiza**- Center of research in scientific and technical information- entitled: **“ A sustainable and developmental approach to integrate technologies into the educational context”** then the debate was open to discuss the topics at hand for knowledge dissemination and experience exchange.

**The second session** entitled: **“The pedagogical competences of professors in information and communication technologies”** was presided by Dr. **Anceur Ouardia** – A researcher at the French institute in Algiers in addition to the communication of **Meziane**

**Cherif Khebab** –National Institute of research on education, entitled: **“the rules of using technological tools in education”** followed by the communication of the researcher: **Fekar Zineb** – A trainer in education where she addressed the topic of: **“Training teachers on the pedagogical use of information and communication technologies from design to implementation”** Dr. **Daoudi Ahmed**- National Institute of Research on Education- shared a contribution entitled: **“Developing the teachers competence in the light of changes of information and communication technologies”**. Debate was open after these valuable communications of attendees actors in educational didactical process after that, the lunch break was announced.

The final session of the forum started in the afternoon, it was entitled:” **the digital use and the collaborative work between teachers and pupils (teacher and learner)”** where a communication was given, entitled:” **educational tablets for the benefit of national education:” a digital and pedagogical approach for a digital school”** by Dr. **“Bekiri Mohamed”**- Development of advanced technologies center” followed by a communication entitled:” **Tools of participation through internet in the service of cooperation: (Google Drive) as a model”** by the researcher **“Bebouchi Dalila”**- Center of research in scientific and technical information followed by the last communication of the works of this scientific day entitled: **“ interactive simulation technology in teaching physics and chemistry (PHET) Physics Education Technology”** given by Dr. **Azouz Lahcen** and Dr. **Boulebazine Mohcen**- National Institute of Research on Education. The session ended with debate on the given communications

Activities of this forum ended with a final word from the institute’s Director where she gave the following solutions and recommendations:

- Raising awareness of all actors of education system on the integration of information and technology tools in education.
- Providing the right infrastructure to use the information and communication technologies tools in education.
- Elaborating training programs for teachers on the use of modern technology tools in education.
- Creating a national information system that censors and follows the use of information and communication in educational institutions.
- The necessity of defining a legislative and legal framework to integrate technological tools in education.
- The necessity of connecting communication between specialized educational institutions and research centers to benefit from their experiences in adopting information and communication technologies in education and teaching through organized seminars and forums.
- Intensifying and diversifying forums and scientific seminars on integration of technological tools in education.