# INFORMATION AND COMMUNICATION TECHNOLOGY IN TEACHING AND LEARNING

*by:*
**Jonathan P. Tabbun**
*Teacher III, Samal National High School*

The term "Information and Communication Technology," or ICT for short, refers to various tools and systems that may aid us in becoming more effective educators and help our students become more knowledgeable.  It encompasses all forms of technology in the classroom, including those that are powered by electricity, such as computers, tape recorders, radios, and televisions, projectors, as well as other locally developed and indigenous technologies that are not powered by electricity, such as models, realis, display boards, dioramas, sand tables, and other similar items.                Teachers must be equipped with the information and skills necessary to utilize the latest digital technologies to ensure that all students can perform academically.             Most educators think that all teachers should have a working grasp of information and communications technology (ICT), especially how to incorporate computers into classroom instruction.  Because computers are used in every industry these days, knowing how to use one effectively is now an essential part of any education. If we do not, We will have difficulty performing to our fullest potential. Using computers is necessary nowadays. Even our pedagogies (Abdullayev, 2020) suggest that f you are dealing with children in middle school, you should always look for new ways to teach them. This is not only because actual circumstances are constantly changing but also because it is essential to vary the types of activities the students participate in to prevent boredom and maintain concentration. Techniques that will assist youngsters in improving their brain functioning and ability to think creatively and productively should be prioritized.  ICT integration is the key.

The role of educators is necessary to the functioning of any country. The evolution of educational programs for teachers has included using various technological tools. Television, cable, digital media, the internet, and social networking sites like Facebook, Twitter, Igo, LinkedIn, Line, and others have given students diverse knowledge and expertise. Pre-service teacher education programs in the twenty-first century must include information and communication technology in their curricula. Without an in-depth understanding of information and communication technologies, teachers cannot function effectively in their classrooms. As a result, we cannot consider it to be finished.

Integrating information and communications technology (ICT) into the curriculum of today's schools is an effective way to motivate students to study. A study (Arkorful et al., 2021) shows a substantial beneficial relationship between teachers' attitudes and ICT integration. Our goal as educators should be to help students acquire the dispositions and skills necessary to become independent, lifelong learners who can work well in groups, solve problems creatively, and communicate effectively with others. Information and communications technology (ICT) is a powerful educational tool that, when put into the capable hands of self-assured, talented, and imaginative educators, has the potential to improve a variety of teaching and learning scenarios dramatically. This is because of the ICT's ability to facilitate collaboration and communication between teachers and students.

*References:*

Abdullayev, A. A. (2020). Cluster method in the development of critical thinking technology in the lessons in primary school. Science and World, 5(81), 16–19.

Arkorful, V., Barfi, K. A., & Aboagye, I. K. (2021). Integration of information and communication technology in teaching: Initial perspectives of senior high school teachers in Ghana. Education and Information Technologies, 26(4), 3771–3787. https://doi.org/10.1007/s10639-020-10426-7