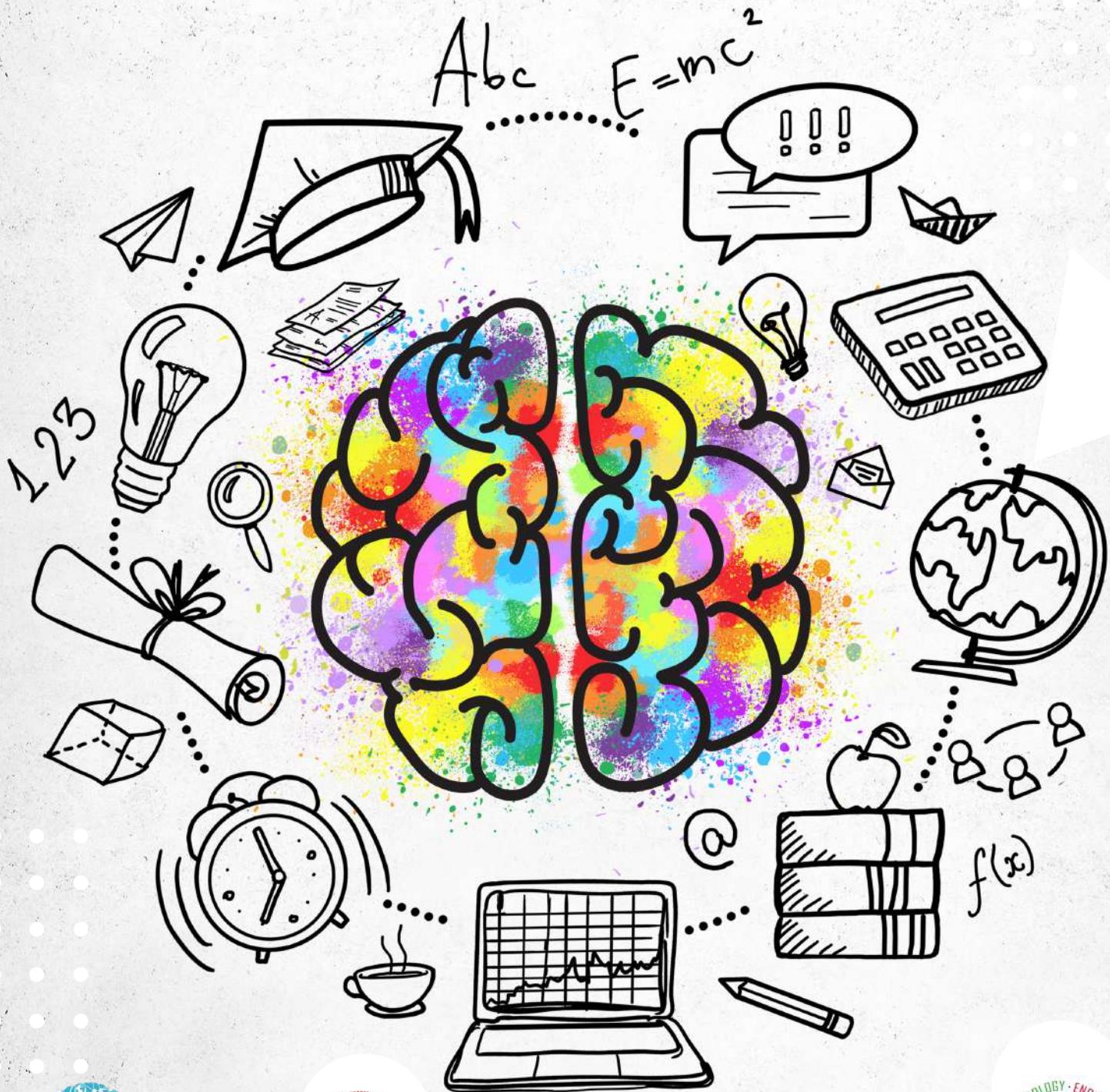


Integrated

learning &
teaching

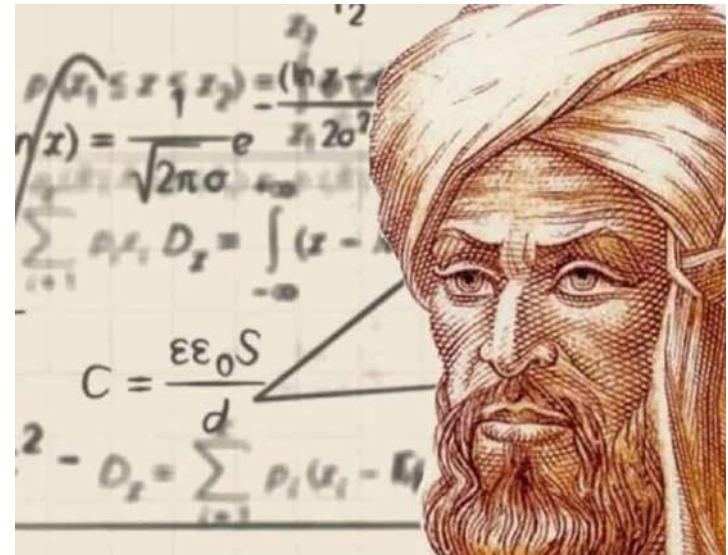


INTEGRATED LEARNING AND TEACHING EDUCATION

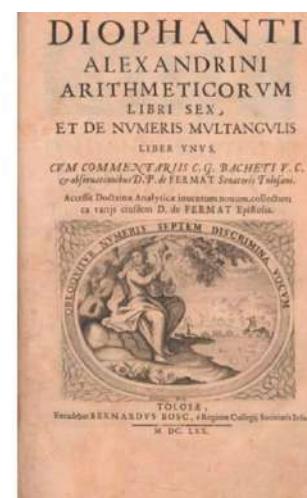
Today, the level of development of countries is closely related to the quality of education provided to individuals. A quality education is possible with qualified and well-trained teachers.

Qualified teachers are those who constantly renew themselves according to the requirements of the age and carry out their lessons with activities aimed at helping their students gain 21st century skills in order to reveal their true potential. In this context, all developed countries in the world have prepared their education programs based on constructivist theory since the 1980s; They encouraged the widespread use of contemporary teaching methods and techniques, which are student-centered, based on creative and critical thinking, and in which the student is cognitively active, in the education process.

Teachers have the greatest responsibility in guiding the new generation in the best way. Teachers need courses more than all occupational groups in order to follow the innovations and developments in the field of education and apply them effectively.

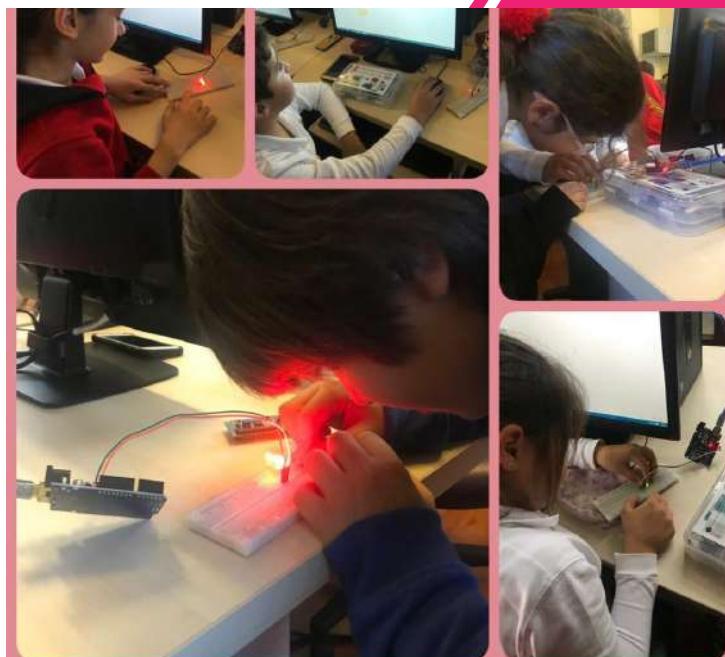


As the first step of a sustainable and large-scale implementation, it is planned to provide Tanzanian teachers with an activity/project-based Integrated Learning and Teaching Training, which is prepared by experts in their fields and includes the most recent developments and practices in the field, which will last for 5 days.



INTEGRATED LEARNING AND TEACHING EDUCATION

The purpose of Integrated Learning and Teaching training, which we will focus on the Harezmi Education Model and STEM Education, is to know what these approaches are, to understand the application principles and strategy, to prepare appropriate course designs by knowing the priorities of the approaches. Throughout the training, we will use HEM (Harezmi Education Model) and STEM (interdisciplinary Science, Technology, Engineering and Mathematics education) as abbreviations.



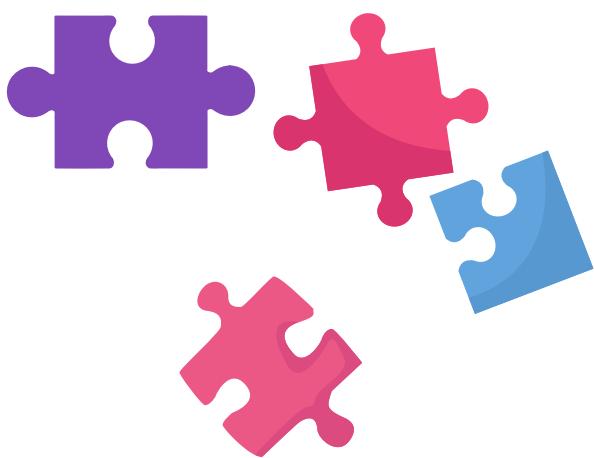
At the end of this training; After learning the theoretical basics about the Khwarezmi Education Model and interdisciplinary Science, Technology, Engineering, Mathematics (STEM) Education, the teachers will create their designs and products by making applied interdisciplinary lesson plans and STEM projects to help their students to solve real-world problems.

During the planned 30-hour training period, it is aimed that teachers create and present lesson plans and prototype products as a result of each Harezmi + STEM application.

INTEGRATED LEARNING AND TEACHING EDUCATION

Integrated Learning and Teaching training will be given to teachers who work in Tanzania in cooperation with the Turkish Cooperation and Coordination Agency (TIKA) and the Ministry of National Education, within the framework of the training program to be prepared within the scope of this cooperation.

As a result of the trainings to be given by competent and experienced teachers in cooperation with TIKA and the Ministry of National Education for teachers who work in Tanzania, our primary goal is to improve the professional basic knowledge, competence and understanding of teachers, and to gain the knowledge, skills and behaviors required by innovations and developments in the field of education.



INTEGRATED LEARNING AND TEACHING EDUCATION

Objectives

As a result of this training, teachers;

- Will be able to express what the Harezmi Education Model is.
- Will be able to define the distinctive features of the Harezmi Education Model.
- Will be able to make instructional design based on problem solving process.
- Will be able to design an interdisciplinary lesson plan.
- Will be able to use their Algorithmic Computational Thinking skills in problem solving process.
- Will be able to design plans that enable the Effective Use of Programming Skills in Learning Environments.
- Will be able to design plans including Robotics and Game Design for Individual Constructivism and Meaningful Learning.
- Will be able to design plans that support life skills in the problem solving process.
- Will be able to prepare a “HEM Annual Plan” shaped by the stages of problem solving in the Harezmi Education Model and associated with 5 grounds.
- Will be able to prepare a “Weekly Implementation Plan” associated with 5 grounds in the Harezmian Education Model.

- Will be able to express what STEM education approach is.
- Will be able to define the distinctive features of STEM.
- Will learn about the Role of the Teacher in the STEM Education Model.
- Will be able to detect real world problems.
- Will be able to develop projects for students to solve real world problems in STEM Education Model.
- Will be able to design STEM activities for their students and create the most creative, efficient and useful designs or products.

By creating project groups, students will be able to participate actively in STEM Project development processes and activities.

At the end of the training, they will be able to exhibit the STEM project product or prototype that they created with their group for the solution of a real world problem.

30 HOURS PROGRAMME

Syllabus

INTEGRATED LEARNING AND TEACHING EDUCATION

1st (90 Mn) 2nd (90 Mn) 3rd (90 Mn) 4rd (90 Mn)	Monday
	Our Reference is Khwarezmi and What is Harezmi Problem-Based Teaching Method and Its Stages
	“What is STEM Education?” Presentation “An Example of STEM Projects” Presentation
	Tuesday
	“How to Develop STEM Projects” Presentation Scientix Project
	Reinterpretation of the Interdisciplinary Approach and how to enable Equivalence of Different Disciplines
	Using Computational Thinking Skills (Without Using Technology and Computers) in Problem Solving Process
	Wednesday
1st (90 Mn) 2nd (90 Mn) 3rd (90 Mn) 4rd (90 Mn)	The importance of life skills in problem solving process Robotics and Game Design for Self-Constructed and Meaningful Learning
	Preparing STEM Projects
	Thursday
	Effective Use of Programming Skills in Learning Enviroments Design of Harezmian Education Model Implementation Lesson Plan
	Development of the Prototype of the STEM Project Enhancement of STEM Project's PowerPoint presentation
	Friday
	Presentation of Plans and Presentation of STEM Projects Distribution of certificates Closing



**T.C. MİLLÎ EĞİTİM
BAKANLIĞI**