



COMMONWEALTH
of LEARNING



Teaching Mathematics with Technology

A course for teachers and teacher educators on the use of *Geogebra* for mathematics teaching and learning

6 – 31 MAY 2024

FREE ONLINE COURSE

Course Description

Teaching Mathematics with Technology (TMT) course introduces mathematics teachers to the use of Geogebra, a Free and Open Source (FOSS) graphic software application, to create interactive lessons, student self-learning materials, as well as other teaching resources.

The use of technology in the teaching of mathematics took on a new urgency due to the global pandemic, as restrictions on physical contact saw many schools adapt online and other forms of distance education. To ensure equitable access to meaningful learning within and beyond the classroom, it is critical for teachers to improve their skills in using various digital tools to develop resources that promote learner-centred pedagogy. With support from the Commonwealth of Learning, the University of West Indies – Five Islands Campus is working closely with the Ministry of Education, Sports and Creative Industries in Antigua and Barbuda, to create opportunities for the training and professional development of mathematics educators towards improved learning outcomes in the subject.

This third offer of the course targets teachers from Antigua and Barbuda. However, teachers from other countries are free to enroll but will not benefit from the in-person support sessions.

Learning Outcomes

After completion of this course, the participant is expected to:

- **Appreciate** the role of ICT in educational process
- **Use** Geogebra for creating mathematics resources
- **Access and contribute** to Open Educational Repositories of Geogebra
- **Develop** new teaching-learning practices using Geogebra

Registration and contact info

To register for the TMT course, please visit: <https://www.mooc4dev.org/TMT3>

Email: tmt@colfinder.org Web: www.col.org/education/teacher-education

Level: Intermediate

Fees: Free

Duration: 4 weeks

Time commitment: 8-10 hours a week

Language of instruction: English

Requirements: Working knowledge of computers and internet use

Content:

- Introduction and Overview of Technology Tools and Open Educational Resources (OER)
- Introduction to Geogebra
- Using Geogebra for Logical Reasoning and Problem Solving
- Using Geogebra in Teaching-Learning

Target audience:

Mathematics teachers for grades 6-10, teacher educators and teachers teaching technical subjects which involve Mathematics

Teacher Support:

- Online mentorship
- In-person meet up sessions for teachers in Antigua and Barbuda

Course Resources:

Demonstration by mentors through course webinars, videos, tutorials and readings and discussions with peers and course mentors

Optional pre-course training:

Understanding OER – <http://colcommons.org/>

Certification:

A Certificate of Completion will be awarded on fulfilment of all the TMT course requirements.