1154-VD-2424 **Dushanthi N Herath*** (dherath@maryville.edu), 650, Maryville University Drive, St. Louis, MO 63141. *Incorporating Technology to make Calculus Interactive and Engaging in the Classroom.* Preliminary report.

When it comes to Mathematics, teaching harder concepts with the use of technology helps students to see what is going on clearly and will have them interested in the subject. As faculty, we need to explore exciting ways to keep students motivated, engaged, and be active learners in the class. Maryville University strives towards creating an Active Learning Ecosystem (ALE) in the classroom by providing students and faculty iPads and technology support. Students can use their iPads in class to access their LMS, which is Canvas for the course and many other educational apps. In this presentation, I will be focusing on the GeoGebra app, which I use for teaching calculus for students to be able to visualize and understand challenging concepts. GeoGebra is a Dynamic Mathematics Software (DMS) which is freely available and used for teaching and learning mathematics. I use GeoGebra to explain concepts, and also to let students work individually or in groups to explore concepts learned in the classroom. A few concepts that are taught using GeoGebra are functions, 2D and 3D graphs, vectors, Integrals, limits and differential equations. This presentation will demonstrate several tools in GeoGebra that is used in the calculus course. (Received September 17, 2019)