

# ***AUGMENTED REALITY-BASED ANDROID MOBILE APPLICATION FOR HUMAN DENTAL ANATOMY***

**RIZKY RIO PRATAMA**

*Computer Engineering Study Program, Faculty of Science & Technology*

*University of Technology Yogyakarta*

*Jl. Ringroad Utara, Jombor, Sleman, Yogyakarta*

*E-mail : [rizkyrp712@gmail.com](mailto:rizkyrp712@gmail.com)*

## ***ABSTRACT***

*Augmented Reality is an innovative technology that integrates virtual elements with the real world in an interactive way for users. This research aims to develop an augmented reality application that enhances clinical services on mobile devices. This application uses marker-based tracking technology to display 3D models of human teeth. This application makes a significant contribution to the world of healthcare. Overall, this research demonstrates that augmented reality technology is an effective solution for supporting and providing better services to clinics through Android mobile devices. The development of this application can be concluded that this augmented reality application can be used to improve patient education services at Duwa Dental Main Dental Clinic, especially for pediatric patients. Testing results on this application yielded a 96% success rate, and the application can run on Android versions 8 and up to 14. This research demonstrates that augmented reality technology is an effective solution for supporting and providing better services to clinics through visual education.*

*Keywords: Augmented Reality, 3D, Clinic, Mobile, Android.*