**Exploration Using Augmented and Virtual Reality**

Submitted in partial fulfilment of the requirements

of the degree of

Bachelor of Engineering

by

Vaibhav Goyal

Radhika Raghuwanshi

Rohini Yedelli

under the guidance of

Mrs Smita Jangale



Department of Information Technology

Vivekanand Education Society’s Institute of Technology

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**Vivekanand Education Society’s**

**Institute of Technology**

**(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)**

**Department of Information Technology**

**CERTIFICATE**

This is to certify that **Mr Vaibhav Goyal, Ms Radhika Raghuwanshi and Ms Rohini Yedelli** of Fourth Year Information Technology studying under the University of Mumbai have satisfactorily presented the project entitled **Exploration Using Augmented and Virtual Reality** as a part of the PROJECT-II for Semester-VIII under the guidance of **Mrs Smita Jangale**  in the year 2017-2018.

Date: 24/04/2018

Mrs Shalu Chopra Mrs Smita Jangale

Head of Department Supervisor/Guide

**Vivekanand Education Society’s**

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**Abstract**

In this advanced era of technology, people believe what they see and experience through their eyes. Virtual Reality is a computer simulated reality which replicates a real environment, and simulate a user's physical presence in this environment while Augmented Reality blurs the line between what's real and what's computer-generated by enhancing what we see, hear and feel. This alone showcases the potential of Virtual and Augmented Reality in fields of gaming, e-commerce, tourism, education etc. to provide real life experiences.

The proposed android application “Exploration” will be a perfect blend of virtual and augmented reality. “Exploration” will have various functionalities like providing 3D view of different tourist places objects around you in the real world and also help students to view 3D complex structure in real world which would be difficult to imagine. The main aim of “Exploration” would be to provide a more immersive and interactive real environment to everyone.

**Keywords:** Augmented Reality , Virtual Reality , Target , Recognition based AR , Virtual Environment, Marker, Vuforia, Unity.