



## G. Narayanamma Institute of Technology & Science (For Women) (Autonomous)

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Shaikpet, Hyderabad-500104

### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (DATA SCIENCE)

<GN-R-18> (2022 - 2023) II B.Tech II Sem Hobby Project

on

“AUGMENTED REALITY EDUTECH”

#### Abstract

3D learning offers a way for students to truly connect with the subject matter by physically manipulating 3D-printed teaching aids or designing their own tools. Students become emotionally involved in the 3D learning process due to its realism.

Our project aims to provide a 3D learning mechanism to learners by developing an AR-based android application and an AR book for them based on marker-based augmented reality. This application can be installed on smartphones, and by scanning the image provided within the application, we can view it in a 3D format. The application helps to move the image in multiple directions, making the learning experience more effective.

Augmented reality helps students by providing greater visualization and allowing for full immersion in the subject matter. By using augmented reality, we aim to develop a chemistry-based model covering topics such as atomic structure, solid state, and more.

#### H/W Requirements

Processor: Intel core i5  
RAM:8GB

#### S/W Requirements

Unity, C#  
OS: Windows and Android  
Development Tool: Android Studio 2022 version.

\*Dept R&D: Yes / No

\* If No : GNITS



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