**Enter Topic:**

Efficient Direction Navigation using AR.

**Topic Description:**

In this Project We are going to make Android Apk , with features like it asks about the destination from user and guide accordingly by using camera , In which it shows detailed view of the surrounding . It also guides the user by showing directions. While the user starts walking towards the direction, App also shows the accuracy of distance from particular object present around the user. Whenever the user encounters some particular objects like classroom, blocks ,library etc. Then a pop up appears on the screen showing the details of that object.

**What novelty do you see in the proposed research/project work by the student(s)?**

Multi-language support: This feature would allow users to select their preferred language for the app, making it more accessible to a global audience.

Voice navigation: Allows users to hear spoken turn-by-turn directions, which can be helpful for people who prefer not to look at their screens while walking.

**Is it feasible to carry out the proposed work with the facilities available in-house? If yes,**

YES

**please mention how the project/research work shall be carried out.**

We Will be using open source softwares based on AR and Android Studio. Google Maps API, ARCore,3D modelling.

**Mention the research gap that the proposed project/research work intends to fill.**

Multi-language support: This feature would allow users to select their preferred language for the app, making it more accessible to a global audience.

Voice navigation: Allows users to hear spoken turn-by-turn directions, which can be helpful for people who prefer not to look at their screens while walking.

**What are the three expected 3-4 research/project outcomes from the proposal submitted by the students?**

Easy to find directions for destinations.

Real time information about the surrounding

Easy to find the shortest path to reach the destination.

**What are the three expected 3-4 research objectives?**

To make distance and direction navigation easier for freshers and newcomers in the campus.

To make navigation easier for handicapped people .

To make navigation easier for multilingual people.