

# ***Learnings Need Matrix:***

GROUP ID:

DATE: **22/02/2022**

DOMAIN NAME: **Voice Control Smart Home Automation**

**-During BE IV/ Stage -3-**

**-During BE III/ Stage -2-**

**-During BE II/ Stage -1-**

**-Purpose / Product Concept-**

**-The Product Concept is:**

- 1) Simplify Daily Tasks.
- 2) Time Optimization.
- 3) Safety Measurements.

Learned to C++ Coding using ESP32 using Arduino IDE and VS Code PlatformIO.

Studied all the basics of all the Components.

Learning Wi-Fi- Client and Client Server Concept with Android.

Learned Android Studio and IOTs Concept for further plans.

Learned to make PCB using GPB boards.

Also made small circuits to learn that how to solder.

For Validation,

We confirm the Testing Requirements and Permits as per the Government Requirement

Proteus Software for circuit simulations.

Tested the components by manual methods.

**Components List:**

-ESP32 Dev Module      -Fan  
-Relay Module          -Lights