MAJOR / MINOR PROJECT ABSTRACT [Form – 1] (YEAR - 2023)

NAME OF LAB COORDINATOR: Ms. Sanju Choudhary

TITLE OF PROJECT: Smart Led Bulb Camera

PROJECT TRACK: (Tick the appropriate one / ones)

1. R&D (Innovation)	2. CONSULTANCY (Fetched from Industry)	3. STARTUP (Self-Business Initiative)	4. PROJECT POOL (From IBM / INFOSYS)	5. HARDWARE ✓ / EMBEDDED

BRIEF INTRODUCTION OF PROJECT:

This is a smart led bulb which can be used as smart camera. This is a spy camera developed using the microcontroller.

TOOLS / TECHNOLOGIES TO BE USED:

NAME OF TOOL / TECHNOLOGY	VERSION	SOFTWARE / HARDWARE	PURPOSE OF USE
Arduino IDE	1.8.13	Software	For coding ESP32
ESP32 board		Hardware	For getting video feed.
Google cloud platform (GCP)		Software	For making the video stream remotly. on any

PROPOSED PROJECT MODULES:

NAME OF MODULE	PROPOSED FUNCTIONALITY IN PROJECT
ESP32 CAM Module	For Programming ESP32 cam module
Arduino UNO	For Programming ESP32
AC To DC converter (PMd)	For convert AC electricity to DC electricity
Camera Interface App	For watching the video feed.
Login Interface	App authentication & user authentication.

TEAM MEMBER DETAILS:

STUDENT NAME	CLASS & GROUP	MOBILE No.	EXPERTISE AREA	ROLE IN PROJECT
Shreyansh Jain	8 IT-B-G2	9468626881	IoT	Hardware development
Samyak Pagariya	8 IT-B-G2	9460197051	Software	Software development.

NOTE: 1. This form is to be submitted by a team of maximum 4 students in the starting of semester to lab coordinator.

2. Students must keep a Xerox copy of this form as reference for project work and attach it to final report.