



# **SNS COLLEGE OF ENGINEERING**

**Kurumbapalayam(Po), Coimbatore – 641 107**

**Accredited by NAAC-UGC with 'A' Grade**

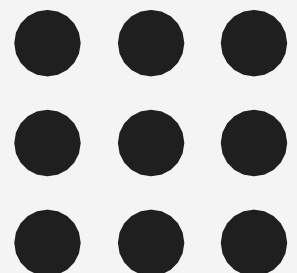
**Approved by AICTE, Recognized by UGC & Affiliated to Anna University, Chennai**

## **Department of AI & DS**

**Course Name – Internet of Things & AI**

**III Year / V Semester**

**UNIT 2 - DESIGN METHODOLOGY**





## 9. Device and Component Integration

the devices like sensors, computing devices and other components are integrated together. The interconnection of different components in our home automation system are as shown in the figure given below.

## Step 9: Device & Component Integration

- The above diagram shows a schematic diagram of the home automation IoT system.
- The devices and components used in this example are Raspberry pi mini-computer, LDR Sensor (Light dependent sensor) and relay switch actuator.
- A detailed description of Raspberry Pi board and how to interface sensors and actuators with the board is provided next chapters



# Step 10: Application Development

- Auto
  - Controls the light appliance automatically based on the lighting conditions in the room
- Light
  - When Auto mode is off, it is used for manually controlling the light appliance.
  - When Auto mode is on, it reflects the current state of the light appliance.

