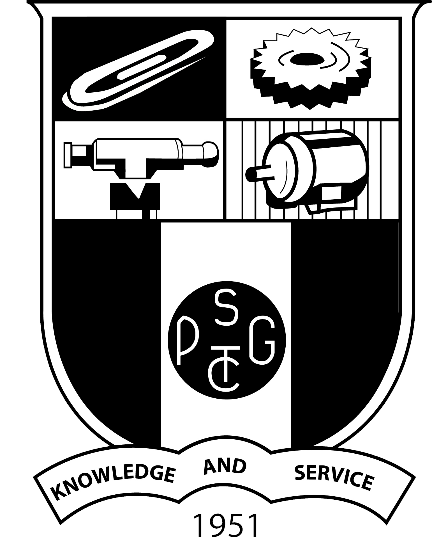
**PSG COLLEGE OF TECHNOLOGY**

**DEPARTMENT OF AMCS**



**EMBEDDED SYSTEMS LAB**

**PACKAGE SUBMISSION**

**DONE BY:**

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**PIANO STAIRS**

**COMPONENTS USED:**

* **Raspberry pi model 3B+**
* **Breadboard**
* **Jump wires**
* **Laser diodes**
* **LDR boards**
* **Thin insulated copper wires**

**ABSTRACT:**

**Tired of climbing the same old stairs? Nope, don’t think about elevators or escalators… Why not spice it up with a touch of music?! So, here comes the piano stairs! One side of the staircase is connected with laser diode, pointing to the other side of the staircase which is connected with LDR boards. When stepping on the staircase, the connection is cut, due to which a piano note is played. The notes increase or decrease when you climb up or down respectively. The increase or decrease in scale, along with the cutting down of power when no one is around, with the help of IR sensor is set to future scope.**