RNS Institute of Technology

(VTU Affiliated, AICTE Approved, NAAC 'A' Grade Accredited)
Dr. Vishnuvardhan Road, Channasandra, RR Nagar Post, Bengaluru – 560098

Department of Electrical and Electronics Engineering

(NBA Accredited for the Academic Years 2018-19, 2019-20, 2020-21 and 2021-22)

Project: Smart Mirror

Title	**Smart Mirror**	
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Year	2020-21	

The goal of the Smart mirror is to increase a user's productivity by saving them time. The smart mirror provides a near effortless experience that allows the user to just walk up and be greeted with information they would typically need another device for.

A "Smart Mirror" is a device that acts as a traditional mirror while also superimposing informational data, which can be customized by the user. The mirror also allows for touch free user interaction with the data displays. The device primarily works a Raspberry Pi for the hardware and custom software built on top of Raspbian, a Linux distribution. It uses an IR sensor for the self-switch ON/OFF and energy saving property. It also uses a Humidity & temperature sensor that will relay data to the user as well as a failsafe system to keep the electronics protected from water damage. Along with these the device contains an interactive assistance that will relay all the data asked and when intimated to "Speak up" will read out the results for the user.