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IIIT Delhi develops smart automated hand sanitiser machine

01 March 2021 | News

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The Electronics and Communications Engineering (ECE) Labs at the Indraprastha Institute of Information Technology (IIIT) Delhi has developed a smart automated hand sanitiser machine.

The machine drops a fixed (controlled) amount of sanitiser after the presence of hands. It waits for some fixed time before the next shot, in case the user needs more amount. This mechanism avoids the excessive waste of sanitiser, making it extremely safe for use in the current pandemic.

The machine has provisions to offer dual-mode operation (either AC or DC power supply), the level indicator, low sanitiser level alarm, temperature sensing, data logging etc. The device has been thoroughly tested for its effectiveness and has been installed at the entry gates of the campus. It has significantly reduced the risk of infection entering the campus and has guaranteed the safety of students as well as the staff to a great extent.

The first version of the device (prototype version) was released on the 9th convocation ceremony of the institution, whereas the second and more robust version is in operation for the past five months without any failure and has been placed at gate no 1 of the institute.

Besides this current innovation of the automatic hand sanitiser machine, the students and faculty of IIIT Delhi also developed the WashKaro app to provide all COVID-19 related updates to the people. The institute also contributed to drug research by thoroughly exploring the domain of drug repositioning.