



GUJARAT TECHNOLOGICAL UNIVERSITY

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CIRCULAR

Interested faculty members and students may register for the following webinar which is going to be held on Thu, May 7, 2015 3:30 PM - 4:30 PM IST.

Virtual Academy: An IoT Based Collaboratory As A Research and Educational Platform

Thu, May 7, 2015 3:30 PM - 4:30 PM IST

Registration URL: <https://attendee.gotowebinar.com/register/6316460471563837442>

Abstract:

The Internet of Things (IoT) is an expanding space for researchers, students, and professionals. Development of IoT applications is hindered by the lack of available design tools, methodologies, and interoperability. The creation of a standards-based, open source hardware and software platform paired with full documentation and educational materials greatly aids in the accelerated development of IoT applications and provides a fertile ground for Science Technology Engineering and Math (STEM) educational opportunities. The developed collaboratory is an IoT based open source, service ecosystem which can be used as both research and education development platform.

According to Wikipedia,

...Collaboratory, as defined by William Wulf in 1989, is a “center without walls, in which the nation’s researchers can perform their research without regard to physical location, interacting with colleagues, accessing instrumentation, sharing data and computational resources, [and] accessing information in digital libraries...

The IoT based collaboratory developed at the University of New Hampshire with paradigms and technologies Service Science, Internet Architecture, M2M, and MQTT has been used as part of the T-shaped multidisciplinary curriculum aimed at the establishment of student startups. The universality of the presented concept allows to consider it to address Grand Challenges in education as well as in other disciplines such as eHealth.

Presenter:

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