Indira Gandhi Delhi Technical University For Women

(Established by Govt. of Delhi vide Act 09 of 2012)

Kashmere Gate, Delhi - 110006

Summary Report

On

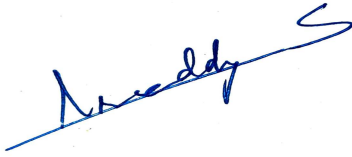### Workshop on "IOT, Machine Learning & AI"

Workshop on **"IOT, Machine Learning & AI"** was conducted by **Prof. S. R. N. Reddy**, Department of CSE along with his students, Ms. Manasi Mishra, Ms. Satwika and Disha from **30th August, 2019 to 1st September 2019, from 10:00 AM to 4:00 PM**. This workshop was conducted in collaboration with Innerve.

Students from various courses, departments and colleges took part in this workshop. Approx. 50 students registered. The workshop aimed at providing practical training to the students regarding the basic and advanced concepts of Internet of Things, Machine Learning and Artificial Intelligence. The focus of the workshop was to learn and build the idea of their own IoT devices.

Following basic topics were discussed:

1. Introduction to Arduino.
2. Introduction to Node MCU.
3. Sensor Interfacing with Node MCU.
4. Display Interfacing with Node MCU.
5. LED/Buzzer interfacing with Node MCU.
6. Communication Module Interfacing with Node MCU.
7. Sending data to Thingspeak Cloud using Node MCU.
8. Introduction to various machine learning models.
9. Training and testing using machine learning.
10. Real time analysis using machine learning models.

During the practical sessions, students executed various experiments of Internet of Things, machine learning and learn basic commands of Arduino. Students performed the hands-on session based on these techniques. Students were given advanced case study-based programming exercises to be performed in the workshop sessions based on the topics mentioned above.

Coordinator
Prof. S. R. N. Reddy
CSE Department, IGDTUW