**GOVERNMENT POLYTECHNIC, NASHIK.**

(An Autonomous Institute of Govt. of Maharashtra)

New building campus, Samangaon road, Nashik road.

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**A Seminar Report On**

**“Blockchain”**

Third Year Diploma in **“COMPUTER TECHNOLOGY”**

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Academic Year: 2019-20

**GOVERNMENT POLYTECHNIC, NASHIK**

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**CERTIFICATE**

This is to certify that **Miss. Pawar Riddhi Arun** (Roll No. 176144) has been successfully completed the seminar report on **“BLOCKCHAIN”** In partial fulfillment of requirement of diploma in **“Computer Technology”** from Government Polytechnic, Nashik (An Autonomous Institute of Maharashtra) during academic year 2019-20 is record of her own work carried my guidance. She has satisfactorily completed this seminar.

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**ABSTRACT**

Blockchain (BC), the technology behind the Bitcoin crypto-currency system, is considered to be both alluring and critical for ensuring enhanced security and (in some implementations, non-traceable) privacy for diverse applications in many other domains - including in the Internet of Things (IoT) eco-system. Intensive research is currently being conducted in both academia and industry applying the Blockchain technology in multifarious applications. Proof-of-Work (PoW), a cryptographic puzzle, plays a vital role in ensuring Blockchain security by maintaining a digital ledger of transactions, which is considered to be incorruptible.

Furthermore, Blockchain uses a Public Key (PK) to record the users’ identity, which provides an extra layer of privacy. Not only in cryptocurrency has the successful adoption of Blockchain been implemented but also in multifaceted non-monetary systems such as in: distributed storage systems, proof-of-location, healthcare, decentralized voting and so forth. Recent research articles and projects/applications were surveyed to assess the implementation of Blockchain for enhanced security, to identify associated challenges and to propose solutions for Blockchain enabled enhanced security systems.

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