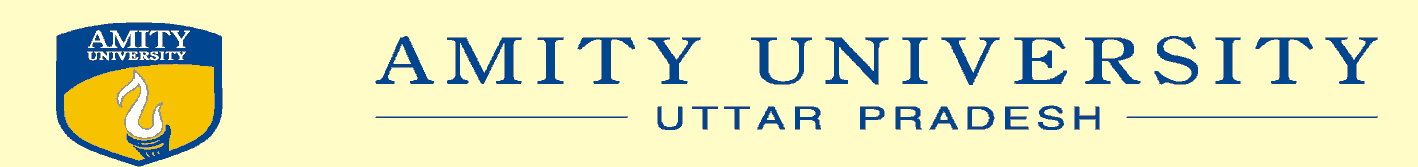
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**AMITY SCHOOL OF ENGINEERING AND TECHNOLOGY**

**INTERNAL**

**NTCC**

**Weekly Draft**

**Topic:**

Introduction to the topics “Big Data Analytics, IOT, AI and Cloud Computing Technologies for Intelligent Network Performance and QoS”

**Problem Statement**:

Problem statement for week one is about collecting valuable data regarding big data analysis and how it has changed in past few years.

**My Work**:

Before diving into the sea of Big Data Analysis, it is important to know what Big Data means. Quite surprisingly, Big Data was considered to be a serious issue few years ago. In the early 2000s, CPU and Storage technologies were shocked by the terabytes of big data received due to skyrocketing of data volumes which resulted in data scalability crisis. With the help of Moore’s law, the computing power improved to have greater capacity, speed and intelligence while also being quiet affordable and hence enterprises had amazing data collection and analysis practices.

Big companies and enterprises are adopting various data analysis strategies to get insights out of data. This is quiet important because of economic recession lead to changes in various businesses. Using latest analytical tools and technologies, companies can study big data deeply to understand the hidden business insights.

Big Data can be understood with what is known as 5V’s of Big Data:

* **Volume**

Scale of data and having drivers like increase in data sources, higher resolution sensors, and scalable infrastructure.

* **Veracity**

Quality and origin of data.

* **Variety**

Diversity of Data.

* **Value**

Ability to turn data into profits

* **Velocity**

Speed at which data is generated

**Work flow diagram**:

