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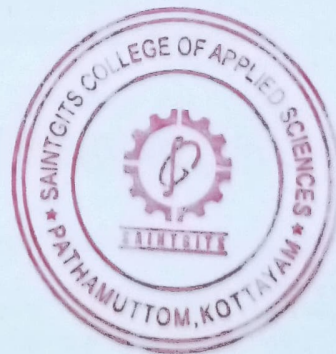
VALUE ADDED COURSES 2020—21

INTERNET OF THINGS

ABOUT THE COURSE

An Introduction to Internet and things enables the participants to understand the basic IoT architecture It also includes the protocols and applications of IoT

OBJECTIVES

- The learner will understand key terms and concepts in IoT

- Understand the protocols and working
- Understand the applications and challenges of IoT

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THE COURSE IS TO EQUP THE STUDENTS WITH LATEST TECHNOLOGY TRENDS IN INTERNET OF THINGS

EXPECTED OUTCOMES

Students will be able to define the various concepts of IoT, architecture and working, and to list different technologies and protocols in IoT

DURATION

30 Hrs.

We provide practical sessions for this course

RELEVANCE

This course is designed to equip the students with the IoT concepts.

ADVANTAGES

Internet of Things is a technology where physical devices are interconnected to each other and are given a set of commands to be executed. Students by enrolling in this course will be able to know the architecture of IoT.

CONTENTS

Module-1: IoT Introduction –

Definition, Features, Advantages, Disadvantages, standard devices, Sensors- Different types, various forms of sensor data, Introduction to Big Data and cloud Computing.

Module-2: IoT Architecture and working –

IOT hardware – sensors, wearable electronics and standard devices. Software – data collection, integration, real time analysis

Module-3: IoT Technology and Protocols –

RFID, NFC, low-energy Bluetooth, low-energy wireless, low-energy radio protocols, LTE-A, and Wi-Fi-Direct.

Module-4: IoT Applications, Challenges and Security Issues –

Government, Healthcare, Industry, Environmental Monitoring, Transportation, Smart Home, Smart Grid.
Security Issues- Privacy, Authentication, Hardware, Software.

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