



IoT

LIVE LECTURES

CERTIFICATION IN IOT WITH AIML

Live Course (Live Lectures)

COURSE OVERVIEW

This course is designed for anyone who is interested in IoT and for those who are preparing to take courses within the Internet of Things. There are no prerequisites for this course. This course is designed to give learners complete knowledge of the Internet of Things. It closely maps to subject focus areas which are Sensors, Embedded Systems, Networking, and circuits, and is intended to assist the student in understanding these important areas.

COURSE OBJECTIVE

The objective of this course is to make learners acquainted with all the required knowledge in the field of IoT with AI-ML. Understand the definition and significance of the Internet of Things, the architecture, operation, and business benefits of an IoT solution. The potential business opportunities that IoT can uncover and the relationship between IoT, cloud computing, and big data.

SKILLS YOU WILL LEARN

The focus areas of this course are : Sensors, Embedded Systems, Networking , Circuits.

COURSE SKILL SET

- INTRODUCTION OF IOT
- FUNDAMENTAL COMPONENT OF IOT SYSTEM
- IOT SERVICES
- IDE



PROGRAM HIGHLIGHTS

- Instructor- Dr. Priti Maheshwary | / Dr. Pooja Bijlani
- Duration- 6 Months
- Eligibility- Any graduate with a Science stream
- No. of Modules - 28
- Placement training- Yes
- Language-English
- Shareable certificate- Yes
- Webinar- Yes

PROGRAM SYLLABUS

Paper 1

INTRODUCTION OF IOT

Live Lecture 1

- Chapter 1 - Basic concept of IOT definition, Characteristics
- Chapter 2 - Framework , Architecture
- Chapter 3 - Communication Platforms

To make learners understand it's importance.
learning its important

Live Lecture 2

- Chapter 4 - Sensor Technology
- Chapter 5 - Architectures
- Internal Assessment

This knowledge is very essential for device
connection
Basic architecture are used all components

Paper 2

FUNDAMENTAL COMPONENT OF IOT SYSTEM

- Chapter 1 - Information of sensor
- Chapter 2 - Types of Sensor Technology
- Chapter 3 - Hardware Devices
- Chapter 4 - Network Device
- Chapter 5 - SPG Component
- Internal Assessment

Main goal and Benefits of its
this is bsic information

Main Component of iot platform

Paper 3

IOT SERVICES

- Chapter 1 - COMPONENTS
- Chapter 2 - UNIT- 2 IOT COMMUNICATION
- Chapter 3 - UNIT- 3 PURPOSE & REQUIRMENT
- Chapter 4 - UNIT- 4 CLOUD
- Chapter 5 - UNIT- 5 IOT PLAT FORMS
- Internal Assessment

object sensing layer,
data exchange layer,
information integration layer,
and application service layer.

Paper 4

IDE

- Chapter 1 - UNIT -1 ARDUINO & MICROCONTROLLER
- Chapter 2 - UNIT - 2 EMBEDDED SYSTEM
- Chapter 3 - UNIT - 3 ARDUINO CONFIGURED
- Chapter 4 - UNIT - 4 SERIAL INPUT
- Chapter 5 - UNIT - 5 INTERFACE & MODE FUNCTION
- Internal Assessment

The main objective of using IDE is that it
allows coding quickly and efficiently. IDE
includes built-in compilers, which convert the
program into ..



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