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CITC THE HUB OF IT PVT LTD

Corp. Office : Landran Road, Kharar, District - SAS Nagar, Punjab 140301

An autonomous organization Regd. under Ministry of Corporate Affaires CIN No. U85499PB2023PTC059506 (By Govt. of India)

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Course Syllabus: Internet of Things

Batch Name: IoT

Eligibility: 12th

Course Start: 1st of Every Month

Course Duration: 90 Hours

Courses / Modules Paper

Module 1

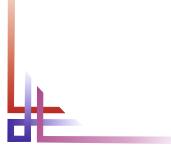| Paper 1	Paper 2
IoT Concepts	Case Study of IT

Paper 1: IoT Concepts

1.1 IoT concepts and definition
1.2 History of IoT
1.3 Requirements, Functions and Structures of IoT
1.4 Major Components of IoT
1.5 IoT Communication and Network Protocols, Roles of wired and wireless communication
1.6 IoT Services and Applications

Paper 2: Case Study of IoT

2.1 Case study project
2.2 How to design IoT application (Web, Mobile, Device)
2.3 Data Generator
2.4 Hardware and Software requirements
2.5 Drivers and OS
2.6 Data Analysis and cleaning of IoT-attack, defence and network robustness of IoT, security protocols for IoT, authentication in IoT, security testing
2.7 Data storage and Retrieval- role of storage in cloud/ server/ inhouse storage, case study over Mysql, Nosql, Newsql, case study over cloud services and administration, case study of big data