

Course Name: Introduction to Internet of Things

[About Course](#)[Certificate Type](#)[Toppers list](#)[Statistics](#)

Prof Sudip Misra



Course abstract


Internet of Things (IoT) is presently a hot technology worldwide. Government, academia, and industry are involved in different aspects of research, implementation, and business with IoT. IoT cuts across different application domain verticals ranging from civilian to defence sectors. These domains include agriculture, space, healthcare, manufacturing, construction, water, and mining, which are presently transitioning their legacy infrastructure to support IoT. Today it is possible to envision pervasive connectivity, storage, and computation, which, in turn, gives rise to building different IoT solutions. IoT-based applications such as innovative shopping system, infrastructure management in both urban and rural areas, remote health monitoring and emergency notification systems, and transportation systems, are gradually relying on IoT based systems. Therefore, it is very important to learn the fundamentals of this emerging technology.

Course Instructor

Prof. Sudip Misra

Dr. Sudip Misra is an Associate Professor in the Department of Computer Science and Engineering at the Indian Institute of Technology Kharagpur. Prior to this he was associated with Cornell University (USA), Yale University (USA), Nortel Networks (Canada) and the Government of Ontario (Canada). He received his Ph.D. degree in Computer Science from Carleton University, in Ottawa, Canada. He has several years of


[Handwritten signature]
Principal
Department of
Computer Science
IIT Kharagpur
Shakhpur, Hyderabad - 500 104

 Media Object

experience working in the academia, government, and the private sectors in research, teaching, consulting, project management, architecture, software design and product engineering roles.

()

Teaching Assistant(s)

 Anandarup Mukherjee

ANANDARUP MUKHERJEE
PH. D. SCHOLAR, CSE

 Arijit Roy


ARIJIT ROY
MS (BY RESEARCH) FROM IIT KHARAGPUR.
PURSUING PHD


 Course Duration : Jan-Apr 2019

 View Course (<http://archive.nptel.ac.in/courses/106/105/106105166/>)

 Syllabus (/content/syllabus_pdf/106105166.pdf)

 Enrollment : 15-Nov-2018 to 28-Jan-2019

 Exam registration : 28-Jan-2019 to 19-Apr-2019

 Exam Date : 27-Apr-2019


PRINCIPAL

G. Narayanaamma Institute of
Technology & Science (for women)
(AUTONOMOUS)
Shaikpet, Hyderabad - 500 104



G.NARAYANAMMA INSTITUTE OF TECHNOLOGY & SCIENCE (For Women)
(AUTONOMOUS)
Shaikpet, Hyderabad – 500104

Department: Information Technology

2018-19

REPORT

NPTEL course on “Introduction to Internet of things”

Date of program: Introduction to Internet of things
Resource person: Prof. Sudip Misra, IIT, Kharagpur, NPTEL

About the Program:

This NPTEL course provided a comprehensive overview of the fundamental concepts and technologies that constitute the Internet of Things. Helped in deeper understanding of the interconnected realm of IoT, delving into essential elements like sensors, actuators, communication protocols, and data analytics. The course covered the architecture of IoT systems and delves into the various layers involved in building and deploying IoT solutions. Participants learn about the integration of hardware and software components, as well as the protocols and standards that facilitate communication between devices. By the end of the NPTEL course on Introduction to Internet of Things, participants are equipped with a foundational understanding of IoT principles, enabling to contribute effectively to the rapidly evolving field of connected devices and smart systems.

V.Usha
Assistant Professor, IT

PRINCIPAL
G. Narayanamma Institute of
Technology & Science (for women)
(AUTONOMOUS)
Shaikpet, Hyderabad - 500 104

