

**NALLAMUTHU GOUNDER MAHALINGAM COLLEGE
(AUTONOMOUS) – POLLACHI**

DEPARTMENT OF MATHEMATICS

CIRCULAR

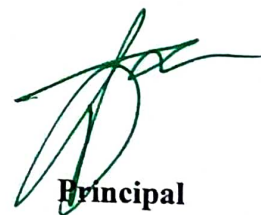
Date: 25.02.2023

We the Department of Mathematics conducting a Value Added Course “Internet of Things” for PG students of all departments. All the HODs are requested to inform their students about this course and inform your students to register their names in the Department of Mathematics on or before 28.02.2023.



Head of the Department

Dr. V. Inthumathi, Ph.D.,
Associate Professor & Head
Department of Mathematics
N.G.M College, Pollachi - 642 001.



Principal

Dr. R. MUTHUKUMARAN,
M.A., M.Phil., B.Ed., Ph.D.,
PRINCIPAL
N.G.M. College, Pollachi - 642 001
Coimbatore District



NGM COLLEGE



(AUTONOMOUS)

Re-accredited by NAAC, An ISO:9001:2015 Certified Institution

Affiliated to Bharathiar University, Coimbatore

90, Palghat Road, Pollachi - 642 001

DEPARTMENT OF MATHEMATICS

VALUE ADDED COURSE

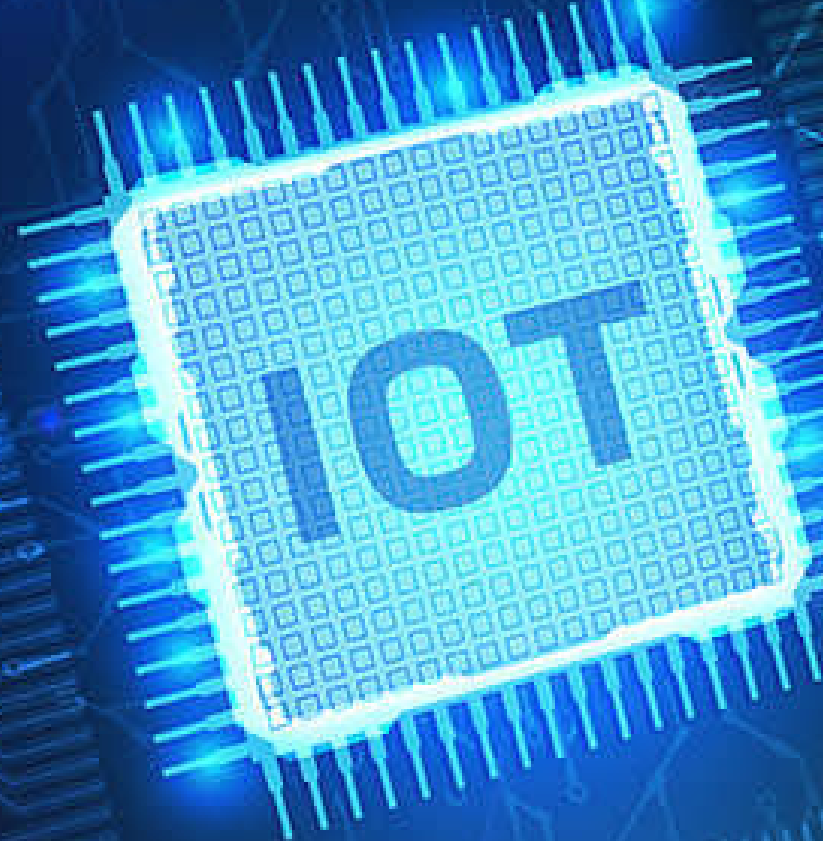
2022-2023

ON

INTERNET OF THINGS

CAREER OPPORTUNITIES:

- Data Analytics
- User Interface
- Embedded Programs Engineer
- Sensors And Actuator Professional



**“ANYONE WHO HAS NEVER
MADE A MISTAKE HAS NEVER
TRIED ANYTHING NEW.”**

- ALBERT EINSTEIN

Aim of the Course:

To have devices that self report in real-time, improving efficiency and bringing important information to the surface more quickly than a system depending on human intervention

Course Objective:

This Course highlights on physical design, logical design, enabling technologies of IoT, IoT system management and design methodology.

Course Outcomes

After completing the course, the students will enable

- to understand the basics of Internet of Things and design of IoT
- to learn the IoT Technologies
- to learn IoT deployment Templates
- to understand the design methodology and level specification of IoT
- to learn about the physical devices such as Raspberry Pi.

Course Coordinator

Profenaa Industrial Training Centre.

- Course Code : 22PMS2VA
- Course Name : Internet Of Things
- Duration : 45 hours
- Eligibility : All PG course
- Course Fee : Rs. 350

Module : 1

Introduction to Internet of Things

Characteristics of IoT – IoT Protocols.

Module : 2

Logical Design of IoT

IoT Functional Blocks – Big Data Analytics

Module : 3

IoT Levels and Deployment Templates

IoT Level 1 to 6 - Case Study on IoT System for Weather Monitoring.

Module : 4

IoT Platform Design Methodology

Types of Specification - Application Development

Module : 5

IoT physical devices

Raspberry Pi – Linux on Raspberry P

VALUE ADDED COURSE

Programme Code:	M.Sc.	Programme Title:	Mathematics	
Course Code:	22PMS2VA	Title	Batch:	2022 - 2024
Lecture Hrs./Week		INTERNET OF THINGS	Semester:	II
or			Credits:	2*
Practical Hrs./Week				

Course Objectives

This course highlights on physical design, logical design, enabling technologies of IoT, IoT system management and design methodology.

Course outcomes (CO)

At the end of this course, the students will be able to

CO Number	CO Statement	Knowledge Level
CO1	To understand the basics of Internet of Things and design of IoT	K1,K2
CO2	To learn the IoT Technologies	K2,K3
CO3	To learn IoT deployment Templates	K3,K4
CO4	To understand the design methodology and level specification of IoT	K3,K4,K5
CO5	To learn about the physical devices such as Raspberry Pi	K3,K5


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Coimbatore District

Units	Content	Hrs.
Unit I	Introduction to Internet of Things: Introduction – Definition and Characteristics of IoT – Physical design of IoT – Things in IoT - IoT Protocols.	9
Unit II	Logical Design of IoT – IoT Functional Blocks – IoT communication Models – IoT Communication APIs – IoT Enabling Technologies – Wireless Sensor Networks – Cloud Computing – Big Data Analytics – Communication Protocols – Embedded Systems.	9
Unit III	IoT Levels and Deployment Templates: IoT Level 1 - IoT Level 2 - IoT Level 3 - IoT Level 4 - IoT Level 5 - IoT Level 6 – Case Study on IoT System for Weather Monitoring.	9
Unit IV	IoT Platform Design Methodology: Purpose and Requirement Specification – Process Specification – Domain Model Specification – Information Model Specification – Service Specification – IoT Level Specification – Functional View Specification – Operational View Specification – Device and Component integration – Application Development.	9
Unit V	IoT physical devices and End Points – IoT Devices – Exemplary Device: Raspberry Pi – About Board – Linux on Raspberry Pi – Raspberry Pi interfaces – Serial – SPI – I2C.	9
	Total Contact Hrs.	45

Text Book:

Arshdeep Bahga, Vijay Madiseti, Internet of Things – A hands on Approach, Orient Blackswan
Private Limited, 2014, 1st Edition


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Grade Point Assessment A- Performance exceeds expectations / B- Meets the expectations / C- Below expectation / D- Poor performance

Certificate ID : 23IOT001

CERTIFICATE OF ACHIEVEMENT



PROUDLY PRESENTED TO

GOKUL PRASANTH P 22-PM-01

UNDER VALUE ADDED COURSE FOR THE EXCEPTIONAL PERFORMANCE THAT
HAS LEAD TO THE SUCCESSFUL COMPLETION OF "INTERNET OF THINGS (45hrs) "
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Grade Point Assessment : A- Performance exceeds expectations / B- Meets the expectations / C- Below expectation / D- Poor performance

Certificate ID : 23IOT002

CERTIFICATE OF ACHIEVEMENT



PROUDLY PRESENTED TO

GOKULA KANNAN M 22-PM-02

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Grade Point Assessment : A- Performance exceeds expectations / B- Meets the expectations / C- Below expectation / D- Poor performance

Certificate ID : 23IOT003

CERTIFICATE OF ACHIEVEMENT



PROUDLY PRESENTED TO

GOWTHAM T 22-PM-03

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Grade Point Assessment : A- Performance exceeds expectations / B- Meets the expectations / C- Below expectation / D- Poor performance

Certificate ID : 23IOT004

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PROUDLY PRESENTED TO

KABILAN E 22-PM-04

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Grade Point Assessment : A- Performance exceeds expectations / B- Meets the expectations / C- Below expectation / D- Poor performance

Certificate ID : 23IOT005

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PROUDLY PRESENTED TO

KARTHIKEYAN R 22-PM-05

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Grade Point Assessment : A- Performance exceeds expectations / B- Meets the expectations / C- Below expectation / D- Poor performance

Certificate ID : 23IOT006

CERTIFICATE OF ACHIEVEMENT



PROUDLY PRESENTED TO

MANIKANDAN K 22 -PM-06

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Certificate ID : 23IOT007

CERTIFICATE OF ACHIEVEMENT



PROUDLY PRESENTED TO

RAHUL H 22-PM-07

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Grade Point Assessment

Grade Point Assessment / A- Above expectations / C- Below expectation / D- Poor performance

Certificate ID : 23IOT008

CERTIFICATE OF ACHIEVEMENT



PROUDLY PRESENTED TO

SATHEESH KUMAR E 22-PM-08

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Grade Point Assessment A- Performance exceeds expectations / B- Meets the expectations / C- Below expectation / D- Poor performance

Certificate ID : 23IOT009

CERTIFICATE OF ACHIEVEMENT



PROUDLY PRESENTED TO

SOMNATH VICKRAM R 22-PM-09

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Grade Point Assessment A- Performance exceeds expectations / B- Meets the expectations / C- Below expectation / D- Poor performance

Certificate ID : 23IOT010

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PROUDLY PRESENTED TO

BHUVANA S 22-PM-10

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Grade Point Assessment A- Performance exceeds expectations / B- Meets the expectations / C- Below expectation / D- Poor performance

Certificate ID : 23IOT011

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PROUDLY PRESENTED TO

BRINDHA A 22-PM-11

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Grade Point Assessment A- Performance exceeds expectations / B- Meets the expectations / C- Below expectation / D- Poor performance

Certificate ID : 23IOT012

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PROUDLY PRESENTED TO

GAYATHRI E 22-PM-12

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Grade Point Assessment A- Performance exceeds expectations / B- Meets the expectations / C- Below expectation / D- Poor performance

Certificate ID : 23IOT013

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PROUDLY PRESENTED TO

JAIDHARSHINI G 22-PM-13

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Grade Point Assessment : A- Performance exceeds expectations / B- Meets the expectations / C- Below expectation / D- Poor performance

Certificate ID : 23IOT014

CERTIFICATE OF ACHIEVEMENT



PROUDLY PRESENTED TO

JANANI A D 22-PM-14

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Grade Point Assessment A- Performance exceeds expectations / B- Meets the expectations / C- Below expectation / D- Poor performance

Certificate ID : 23IOT015

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PROUDLY PRESENTED TO

JANANI J 22-PM-15

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Certificate ID : 23IOT016

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PROUDLY PRESENTED TO

JEEVAPREETHI M 22-PM-16

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Certificate ID : 23IOT017

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PROUDLY PRESENTED TO

KAVIYA V 22-PM-17

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Certificate ID : 23IOT018

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PROUDLY PRESENTED TO

KIRUBA B 22-PM-18

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PROUDLY PRESENTED TO

PRIYADHARSHINI B 22-PM-19

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Grade Point Assessment A- Performance exceeds expectations / B- Meets the expectations / C- Below expectation / D- Poor performance

Certificate ID : 23IOT020

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PROUDLY PRESENTED TO

RAJA RAJESHVARI K 22-PM-20

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Grade Point Assessment A- Performance exceeds expectations / B- Meets the expectations / C- Below expectation / D- Poor performance

Certificate ID : 23IOT021

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PROUDLY PRESENTED TO

SHANMUKHAPRIYA B 22-PM-21

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PROUDLY PRESENTED TO

SWATHI V 22-PM-22

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Grade Point Assessment A- Performance exceeds expectations / B- Meets the expectations / C- Below expectation / D- Poor performance

Certificate ID : 23IOT023

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PROUDLY PRESENTED TO

THILAGAVATHY T 22-PM-23

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Grade Point Assessment A- Performance exceeds expectations / B- Meets the expectations / C- Below expectation / D- Poor performance

Certificate ID : 23IOT024

CERTIFICATE OF ACHIEVEMENT



PROUDLY PRESENTED TO

VINITHARADEVI T 22-PM-24

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Grade Point Assessment A- Performance exceeds expectations / B- Meets the expectations / C- Below expectation / D- Poor performance

Certificate ID : 23IOT025

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PROUDLY PRESENTED TO

YASOTHA R 22-PM-25

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