

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

(AUTONOMOUS)- POLLACHI

DEPARTMENT OF PHYSICS

CIRCULAR

22.02.2022

The department of Physics has planned to conduct a value added programme on Internet of Things (IoT) for UG students of all the departments, which commences from 3rd March 2022 onwards. Respective HODs are asked to inform the students and the interested students may register their names with the course coordinator Dr.A.G.Kannan



Head of the Department

Dr. T.E. Manjulavalli, M.Sc., M.Phil., Ph.D.,
Assistant Professor and Head
PG & Research Department of Physics
NGM College (Autonomous)
Pollachi - 642 001, Tamil Nadu.



Principal
PRINCIPAL
N. G. M. COLLEGE, POLLACHI



NGM COLLEGE

An Autonomous Institution Affiliated to Bharathiar University
Re-Accredited by NAAC & ISO 9001:2015 Credited



PG and Research Department of Physics

Value Added course
on
Internet of Things
for
UG Programme (2021-22)

Aim

To facilitate and explore the types of knowledge available from data when many devices are connected together

Objective

To obtain and analyse data from devices

Course coordinator

Dr. A.G. Kannan

Career Opportunities

Sensor and Actuator Professional
Embedded Program Engineer
Data Analytics
Networking Architect

Course Name : IOT

Duration : 30 hrs

Course fee : Rs. 350

Programme Code:	B.Sc. PHY			Programme Title:	Bachelor of Physics	
Course Code:	21VAD603			Title	Batch:	2021 – 2024
				Skill based Elective II: Internet of Things	Semester:	VI
Lecture Hrs./Week or Practical Hrs./Week		Tutorial Hrs./Sem.	30		Credits:	

VALUE ADDED PROGRAM

S.no	Remote Sensing and Data Fusion using IoT- Syllabus	Modules
1	Introduction to Sensors - Introduction to Data Acquisition System : IoT - Introduction to Sensors Integration - Vision Sensors Interface	Module 1
2	Humidity Sensor Interface - Temperature Interface - Pressure Sensor Interface - Water quality Sensor Interface - Moisture Sensor Interface	Module 2
3	Level Sensor Interface - Flow Sensor Interface - Gas Sensor Interface (Co2, Co, O2, Methane) - Tilt Sensor Interface	Module 3
4	Displacement Sensor Interface - – Position Sensor Interface - Motion Sensor Interface - Accelerometer Sensor Interface	Module 4
5	IoT Interface using IBM Cloud - IoT Launch - Real Time Sensing and Monitoring -RTC Interface	Module 5



Dr. T.E. Manjulavalli, M.Sc., M.Phil., Ph.D.,
Assistant Professor and Head
PG & Research Department of Physics
NGM College (Autonomous)
Pollachi - 642 001, Tamil Nadu.

HoD



K. SRINIVASAN, M.C.A.,
Co-ordinator
Curriculum Development Cell (CDC)
NGM College (Autonomous)
Pollachi - 642 001.

CDC



PRINCIPAL
N. G. M. COLLEGE, POLLACHI

Principal

CERTIFICATE OF ACHIEVEMENT

INTERNET OF THINGS(IOT)

THIS CERTIFICATE IS PROUDLY PRESENTED TO SABARINATH R (19PH015)
OF III B.Sc., PHYSICS (2019-2022), NGM COLLEGE, POLLACHI FOR SUCCESSFULLY
COMPLETING THE VALUE ADDED PROGRAMME (30Hrs) IN " INTERNET OF THINGS (IoT)" ON
"22/06/2022" AT **PROFENAA TECHNOLOGIES.**

Congratulations!

The course you have completed is a part of Profenaa's Industrial Training program.
It was designed to meet your learning needs with professional instructors, extensive
syllabus and authorized courseware. We wish the very best for your future.



CERTIFICATE OF ACHIEVEMENT

INTERNET OF THINGS(IOT)

THIS CERTIFICATE IS PROUDLY PRESENTED TO PRETHIKSHA G (19PH38)
OF III B.Sc., PHYSICS (2019-2022), NGM COLLEGE, POLLACHI FOR SUCCESSFULLY
COMPLETING THE VALUE ADDED PROGRAMME (30Hrs) IN " INTERNET OF THINGS (IoT)" ON
"22/06/2022" AT PROFENAA TECHNOLOGIES.

Congratulations!

The course you have completed is a part of Profenaa's Industrial Training program.
It was designed to meet your learning needs with professional instructors, extensive
syllabus and authorized courseware. We wish the very best for your future.



Certificate ID:22PR0019PH38

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



Authorized signatory

Technical lead - Industrial training program



Profenaa Technologies is the Registered Trademark of Technical & Technological Training Services

CERTIFICATE OF ACHIEVEMENT

INTERNET OF THINGS(IOT)

THIS CERTIFICATE IS PROUDLY PRESENTED TO SURYA N (19PH42)
OF III B.Sc., PHYSICS (2019-2022), NGM COLLEGE, POLLACHI FOR SUCCESSFULLY
COMPLETING THE VALUE ADDED PROGRAMME (30Hrs) IN " INTERNET OF THINGS (IoT)" ON
"22/06/2022" AT PROFENAA TECHNOLOGIES.

Congratulations!

The course you have completed is a part of Profenaa's Industrial Training program.
It was designed to meet your learning needs with professional instructors, extensive
syllabus and authorized courseware. We wish the very best for your future.



Certificate ID:22PR0019PH42

Grade Point Assessment:

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



Authorized signatory
Technical lead - Industrial training program

Profenaa Technologies is the Registered Trademark of Technical & Technological Training Services

CERTIFICATE OF ACHIEVEMENT

INTERNET OF THINGS(IOT)

THIS CERTIFICATE IS PROUDLY PRESENTED TO JAYANAGARJUN N (19PH08)
OF III B.Sc., PHYSICS (2019-2022), NGM COLLEGE, POLLACHI FOR SUCCESSFULLY
COMPLETING THE VALUE ADDED PROGRAMME (30Hrs) IN " INTERNET OF THINGS (IoT)" ON
"22/06/2022" AT PROFENAA TECHNOLOGIES.

Congratulations!

The course you have completed is a part of Profenaa's Industrial Training program.
It was designed to meet your learning needs with professional instructors, extensive
syllabus and authorized courseware. We wish the very best for your future.



Certificate ID:22PR0019PH08



Authorized signatory

Technical lead - Industrial training program



CERTIFICATE OF ACHIEVEMENT

INTERNET OF THINGS(IOT)

THIS CERTIFICATE IS PROUDLY PRESENTED TO **KARTHIK S (19PH010)**
OF III B.Sc., PHYSICS (2019-2022), NGM COLLEGE, POLLACHI FOR SUCCESSFULLY
COMPLETING THE VALUE ADDED PROGRAMME (30Hrs) IN " INTERNET OF THINGS (IoT)" ON
"22/06/2022" AT **PROFENAA TECHNOLOGIES.**

Congratulations!

The course you have completed is a part of Profenaa's Industrial Training program.
It was designed to meet your learning needs with professional instructors, extensive
syllabus and authorized courseware. We wish the very best for your future.



Certificate ID:22PR0019PH10

Grade Point Assessment:

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

Authorized signatory

Technical lead - Industrial training program



Profenaa Technologies is the Registered Trademark of Technical & Technological Training Services

CERTIFICATE OF ACHIEVEMENT

INTERNET OF THINGS(IOT)

THIS CERTIFICATE IS PROUDLY PRESENTED TO DIVYA C (19PH25)
OF III B.Sc., PHYSICS (2019-2022), NGM COLLEGE, POLLACHI FOR SUCCESSFULLY
COMPLETING THE VALUE ADDED PROGRAMME (30Hrs) IN " INTERNET OF THINGS (IoT)" ON
"22/06/2022" AT PROFENAA TECHNOLOGIES.

Congratulations!

The course you have completed is a part of Profenaa's Industrial Training program.
It was designed to meet your learning needs with professional instructors, extensive
syllabus and authorized courseware. We wish the very best for your future.



Certificate ID:22PR0019PH25

Grade Point Assessment:

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

Authorized signatory

Technical lead - Industrial training program



CERTIFICATE OF ACHIEVEMENT

INTERNET OF THINGS(IOT)

THIS CERTIFICATE IS PROUDLY PRESENTED TO KARTHIKA K (19PH33)
OF III B.Sc., PHYSICS (2019-2022), NGM COLLEGE, POLLACHI FOR SUCCESSFULLY
COMPLETING THE VALUE ADDED PROGRAMME (30Hrs) IN " INTERNET OF THINGS (IoT)" ON
"22/06/2022" AT PROFENAA TECHNOLOGIES.

Congratulations!

The course you have completed is a part of Profenaa's Industrial Training program.
It was designed to meet your learning needs with professional instructors, extensive
syllabus and authorized courseware. We wish the very best for your future.



Certificate ID:22PR0019PH33

Grade: Point Assessment



Authorized signatory

Technical lead - Industrial training program

CERTIFICATE OF ACHIEVEMENT

INTERNET OF THINGS(IOT)

THIS CERTIFICATE IS PROUDLY PRESENTED TO MALARVIZHI G (19PH36)
OF III B.Sc., PHYSICS (2019-2022), NGM COLLEGE, POLLACHI FOR SUCCESSFULLY
COMPLETING THE VALUE ADDED PROGRAMME (30Hrs) IN " INTERNET OF THINGS (IoT)" ON
"22/06/2022" AT PROFENAA TECHNOLOGIES.

Congratulations!

The course you have completed is a part of Profenaa's Industrial Training program.
It was designed to meet your learning needs with professional instructors, extensive
syllabus and authorized courseware. We wish the very best for your future.



Certificate ID:22PR0019PH36

Grade Point Assessment

A- Above expectations / B- Meets the expectations / C- Below expectation / D- Poor performance



Authorized signatory
Technical lead - Industrial training program



Profenaa Technologies is the Registered Trademark of Technical & Technological Training Serv

CERTIFICATE OF ACHIEVEMENT

INTERNET OF THINGS(IOT)

THIS CERTIFICATE IS PROUDLY PRESENTED TO INDHUMATHI P (19PH30)
OF III B.Sc., PHYSICS (2019-2022), NGM COLLEGE, POLLACHI FOR SUCCESSFULLY
COMPLETING THE VALUE ADDED PROGRAMME (30Hrs) IN " INTERNET OF THINGS (IoT)" ON
"22/06/2022" AT PROFENAA TECHNOLOGIES.

Congratulations!

The course you have completed is a part of Profenaa's Industrial Training program.
It was designed to meet your learning needs with professional instructors, extensive
syllabus and authorized courseware. We wish the very best for your future.



Certificate ID:22PR0019PH30

Grade Point Assessment:

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



Authorized signatory

Technical lead - Industrial training program



Profenaa Technologies is the Registered Trademark of Technical & Technological Training Services