

DEPARTMENT OF COMPUTER TECHNOLOGY

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

(An Autonomous College affiliated to
Bharathiar University, Coimbatore)
An ISO 9001:2015 Certified Institution
Re-Accredited by NAAC

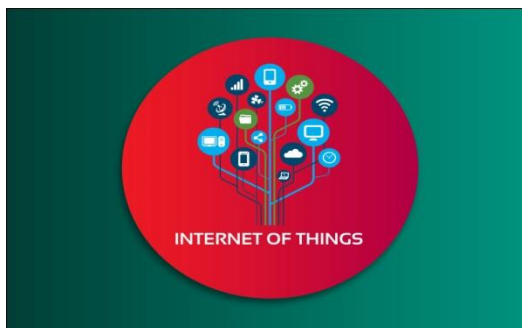


VALUE ADDED COURSE – 2021

ON

INTERNET OF THINGS

Course Coordinators
Ms. K. S. Leelavathi



Course Name: Internet of Things

Duration : 30 Hours

Eligibility : All UG courses

Course fee : Rs. 300/-

AIM OF THE COURSE

The aim of the course is to provide students to explore interconnection and integration of the physical world and the cyber space.

COURSE OBJECTIVE

The course imparts a sound understanding of the basic electronics, microcontroller architectures, sensors, IoT architecture and communication protocols.

All are cordially invited.....!!!

CAREER OPPORTUNITIES:

- ❖ Data analytics
- ❖ Network and Structure
- ❖ Protection
- ❖ Device and Hardware
- ❖ Cell and UI development



“If you think that the internet has changed your life, think again. The Internet of Things is about to change it all over again!” — Brendan O’Brien

COMPUTER TECHNOLOGY

COMPUTER TECHNOLOGY

COMPUTER TECHNOLOGY

Department of Computer Technology

Value Added Course - 2020 - 21

Internet of Things (IoT)

Vision

The vision of the course is to provide students to explore interconnection and integration of the physical world and the cyber space.

Mission

Imparting a sound understanding of the basic electronics, microcontroller architectures, sensors, IoT architecture and communication protocols and providing in depth understanding of IoT system, architectures, components and supporting technologies.

Syllabus

Unit – I

[10 Hours]

Introduction: Definition and characteristics of IoT – IoT enabling Technologies. IoT Levels – **Domain Specific IoTs:** Home Automation – Cities – Environment.

Unit – II

[10 Hours]

IoT and M2M: Introduction - M2M – Difference between IoT and M2M – Need for IoT system management.

Unit - III

[10 Hours]

IoT platform design methodology: Introduction - IoT design methodology.

IoT Physical devices and End points: What is an IoT Device? – Basic building blocks of an IoT device – Exemplary device: Raspberry Pi – About the Board.

Books for Study

1. Vijay Madisetti and Arshdeep Bahga, “**Internet of Things (A Hands-on-Approach)**”, 1st Edition, VPT, 2017.

Books for Reference

1. Francis da Costa, "Rethinking the Internet of Things: A Scalable Approach to Connecting Everything", 1st Edition, Apress Publications, 2015

Reference Links

1. <https://www.scnsoft.com/blog/iot-for-smart-city-use-cases-approaches-outcomes>
2. <https://labs.sogeti.com/smart-city-iot-design-architecture/>
3. <https://www.slideshare.net/anija03/raspberry-pi-26689656>
4. <https://www.youtube.com/watch?v=BqKZKvFgv1U>

RSJ
(Staff Incharge)
R. S. Leelavathi

M. Rajasenathipathi
Dr. M. RAJASENATHIPATHI M.A., M.C.A., M.Phil., Ph.D.
Head of the Department
Department of Computer Technology
Nallamuthu Gounder Mahalingam College (Autonomous)
POLLACHI - 642 001.



NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS)

Re-Accredited by NAAC & ISO 9001:2015 Certified
Affiliated to Bharathiar University, Coimbatore, Pollachi, Tamilnadu,

VALUE ADDED COURSE

Certificate of Completion

This is to certify that Ms. **Agathya S (19-CT-36)**, **Department of B.Sc (CT)**, of
Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi, has successfully completed
Value Added Course entitled **INTERNET OF THINGS (IOT)** during Feb 2021 to May 2021.

HOD

Principal



NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS)

Re-Accredited by NAAC & ISO 9001:2015 Certified
Affiliated to Bharathiar University, Coimbatore, Pollachi, Tamilnadu,

VALUE ADDED COURSE

Certificate of Completion

This is to certify that Ms. **Aparna M (19-CE-32)**, **Department of B.Sc (CT)**, of
Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi, has successfully completed
Value Added Course entitled **INTERNET OF THINGS (IOT)** during Feb 2021 to May 2021.

HOD

Principal



NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS)

Re-Accredited by NAAC & ISO 9001:2015 Certified
Affiliated to Bharathiar University, Coimbatore, Pollachi, Tamilnadu,

VALUE ADDED COURSE

Certificate of Completion

This is to certify that Mr. **Dinesh L (18-CT-04)**, **Department of B.Sc (CT)**, of
Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi, has successfully completed
Value Added Course entitled **INTERNET OF THINGS (IOT)** during Feb 2021 to May 2021.

HOD

Principal



NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS)

Re-Accredited by NAAC & ISO 9001:2015 Certified
Affiliated to Bharathiar University, Coimbatore, Pollachi, Tamilnadu,

VALUE ADDED COURSE

Certificate of Completion

This is to certify that Mr. **Jayaprakash S (20-CT-09)**, **Department of B.Sc (CT)**,
of Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi, has successfully completed
Value Added Course entitled **INTERNET OF THINGS (IOT)** during Feb 2021 to May 2021.

HOD

Principal



NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS)

Re-Accredited by NAAC & ISO 9001:2015 Certified
Affiliated to Bharathiar University, Coimbatore, Pollachi, Tamilnadu,

VALUE ADDED COURSE

Certificate of Completion

This is to certify that Ms. **Keerthana M (19-CE-39)**, **Department of B.Sc (CT)**, of
Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi, has successfully completed
Value Added Course entitled **INTERNET OF THINGS (IOT)** during Feb 2021 to May 2021.

HOD

Principal



NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS)

Re-Accredited by NAAC & ISO 9001:2015 Certified
Affiliated to Bharathiar University, Coimbatore, Pollachi, Tamilnadu,

VALUE ADDED COURSE

Certificate of Completion

This is to certify that Mr. **Selvakumar S (19-CT-25)**, **Department of B.Sc (CT)**, of
Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi, has successfully completed
Value Added Course entitled **INTERNET OF THINGS (IOT)** during Feb 2021 to May 2021.

A handwritten signature in blue ink, likely belonging to the Head of Department.

HOD

A handwritten signature in blue ink, likely belonging to the Principal.

Principal



NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS)

Re-Accredited by NAAC & ISO 9001:2015 Certified
Affiliated to Bharathiar University, Coimbatore, Pollachi, Tamilnadu,

VALUE ADDED COURSE

Certificate of Completion

This is to certify that Mr. **Sivasuban G (19-CT-25)**, **Department of B.Sc (CT)**, of
Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi, has successfully completed
Value Added Course entitled **INTERNET OF THINGS (IOT)** during Feb 2021 to May 2021.

HOD

Principal



NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS)

Re-Accredited by NAAC & ISO 9001:2015 Certified
Affiliated to Bharathiar University, Coimbatore, Pollachi, Tamilnadu,

VALUE ADDED COURSE

Certificate of Completion

This is to certify that Ms. **Sowmya V (20-CT-42)**, **Department of B.Sc (CT)**, of
Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi, has successfully completed
Value Added Course entitled **INTERNET OF THINGS (IOT)** during Feb 2021 to May 2021.

A handwritten signature in blue ink, likely belonging to the Head of Department.

HOD

A handwritten signature in blue ink, likely belonging to the Principal.

Principal



NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS)

Re-Accredited by NAAC & ISO 9001:2015 Certified
Affiliated to Bharathiar University, Coimbatore, Pollachi, Tamilnadu,

VALUE ADDED COURSE

Certificate of Completion

This is to certify that Ms. **Sruthika S (20-CT-43)**, **Department of B.Sc (CT)**, of Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi, has successfully completed Value Added Course entitled **INTERNET OF THINGS (IOT)** during Feb 2021 to May 2021.

A handwritten signature in blue ink, likely belonging to the Head of Department.

HOD

A handwritten signature in blue ink, likely belonging to the Principal.

Principal



NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS)

Re-Accredited by NAAC & ISO 9001:2015 Certified
Affiliated to Bharathiar University, Coimbatore, Pollachi, Tamilnadu,

VALUE ADDED COURSE

Certificate of Completion

This is to certify that Ms. **Yuvasri K (19-CE-57)**, **Department of B.Sc (CT)**, of
Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi, has successfully completed
Value Added Course entitled **INTERNET OF THINGS (IOT)** during Feb 2021 to May 2021.

HOD

Principal