Short Course – Antenna Design and Internet of Things

1. **OBJECTIVES**

This short course is designed to provide participants with a comprehensive understanding of antenna design and its applications in the Internet of Things (IoT) systems. The course covers the principles of antenna design, including antenna types, radiation patterns and impedance matching. Participants will also learn how to design and simulate antennas using industry-standard software tools. In addition, the course will cover the integration of antennas in IoT systems.

Course Objectives:

* Understand the principles of antenna design and electromagnetic wave propagation
* Learn how to design and simulate antennas using industry-standard software tools
* Understand the integration of antennas in IoT systems

1. **DURATION**

The duration of the programme is twelve (12) hour course. It will be held on Wednesday 20 and Thursday 21 December 2023. Registration deadline: 11 December 2023.

1. **CURRICULUM**

Course Content:

* Introduction to IoT
* Introduction to antenna design and electromagnetic wave propagation
* Antenna types and radiation patterns
* Antenna simulation using industry-standard software tools
* Integration of antennas in IoT systems

1. **VENUE & FACILITIES**

The training programme will be held in the Microprocessor Laboratory, 2nd Floor, Sir E. Lim Fat Engineering Tower of the University of Mauritius.

1. **TRAINING METHODOLOGY**

The programme will be conducted in the form of classroom lectures (theory), practical sessions and mini-projects where you will build your own circuits, and IoT systems.

## CERTIFICATE

Participants who have successfully completed the programme will be awarded a certificate of attendance issued by the University of Mauritius.

### Who Should Attend

This short course is aimed at students, makers, hobbyists, technicians, engineers, entrepreneurs and everyone with a keen interest in wireless systems, antennas and IoT. No prior experience in wireless communications/ IoT is required.

# Number of seats available for this programme: 20

## TRAINING/REGISTRATION FEES

#### Rs. 6,500 per participant including tea breaks and training materials.

**9. Trainers**

Dr Vishwamitra Oree, Dr Tulsi Pawan Fowdur and Mr Anshu Prakash Murdan, from Department of Electrical and Electronic Engineering, University of Mauritius, and Dr Naveen Kumar from Christ University, Bangalore, India will be the resource persons for this training programme.

NOTE : MQA approval is in progress

###### **APPLICATION FORM**

Short Course – Antenna Design and Internet of Things

Name of Participant: ………………………………………………………………

Organisation/School/University:…………………………………….………….…

Position/Class….………………………………….………………………………

Office Tel: ……………………………..… Fax: .…………….………………

Mobile Tel: ………………………………………………………..…….………..

Email: ……………………….………………………………………….…..…….

Signature:…………. …….…… ….……Date……………………….…………

Cheque enclosed, Rs. 6,500 per participant 🡪 ………………(Yes/No )

N.B. Payment can be effected in cash, card (at the Finance Section, UoM) or cheque. Cheque to be drawn to the order of University of Mauritius and crossed. Personal cheques will NOT be accepted.

Application forms duly filled in should be sent to the following address. Forms can

also be sent by fax (465-7144), to the following resource persons:

**Anshu Prakash Murdan** or **Vishwamitra Oree**

a.murdan@uom.ac.mu, 403 7851 v.oree@uom.ac.mu, 403 7980

Electrical and Electronic Engineering Dept.

Faculty of Engineering

University of Mauritius, Reduit.

*N.B*. The University of Mauritius reserves the right not to run the training programme should the number of participants be insufficient. Seats will be available for 20 participants and these will be allocated on a “first come first serve” basis.