

The objectives of this course are to reinforce the fundamentals of electromagnetic principles demanded by recent advances in novel phenomena and exotic materials, and to provide exposure to recent developments in sensors and antennas for ever increasing applications, and to follow Tokomak research activity and new trends in Radio astronomy.

New developments continue to emerge from various parts of the wide spectrum of electromagnetic waves. Participants would be exposed to the exciting developments in the Terahertz regime, in energy harvesting, in the design and development of metamaterials, in the widespread use of microwaves for processing materials in an environmentally friendly and sustainable manner, in the advancement of microwaves for diagnostics and therapeutic uses and in the rapid progress made in compact sensor development and deployment. In addition, they would get a perspective of the challenges encountered in the design and development of electromagnetic devices and diagnostic tools for tokomaks, and of the new trends in radio astronomy.

In parallel, participants would participate in tutorial sessions that would enable them to reinforce their understanding of electromagnetic phenomena and update themselves to effectively engage with students.

By bringing researchers and teachers together, the course aims to contribute to the growth and sustenance of trained manpower that can engage with new developments through continuing education.

Eligibility and Registration Fee

The course is open to faculty with background in Physics, Electrical Engineering, Electronics and Communication Engineering, and Mathematics from AICTE approved Institutions.

Course Contents

Novel phenomena; Novel materials; Advances in sensors and sensing applications; Electromagnetics in Tokomaks, Radio astronomy; Electromagnetic Energy Harvesting; plus Tutorials/Simulations

Resource Persons

The teaching faculty will constitute experts from different fields of specializations within IIT Madras and guest speakers from other reputed institutions and organizations.

The course would be conducted in online mode.

Important Dates

Last date for applications: **15 March 2021**

Intimation of selection through email: **17 March 2021**

Confirmation of participation: **19 March 2021**

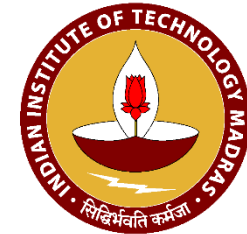
Supported by
Centre of Continuing Education, IIT Madras
<https://cce.iitm.ac.in>

Contact information

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AICTE QIP SHORT TERM COURSE ON Principles and Advances in Electromagnetics

**Sponsored by AICTE, New Delhi
March 22 – 27, 2021**



Coordinators
Dr. V. Subramanian
Dr. C. V. Krishnamurthy

Organized by
Microwave Laboratory
Department of Physics
Indian Institute of Technology Madras
Chennai – 600036

Sponsorship

Prof./Dr./Mr./Ms./Mrs./ _____

is an employee of our institute and his/her application is hereby sponsored. The applicant will be permitted to attend the short-term course “**Principles and Advances in Electromagnetics**” at IIT Madras during **March 22 – 27, 2021**, if selected.

(Signature of Sponsoring Authority with date and seal)

The duly sponsored application form should be scanned and sent by email to:

Professor V. Subramanian
Microwave Laboratory, Department of Physics
Indian Institute of Technology Madras
Chennai – 600036
Email: manianvs@iitm.ac.in

AICTE QIP Short Term Course (Online Mode) on Principles and Advances in Electromagnetics

Sponsored by AICTE, New Delhi
March 22 – 27, 2021

Application Form

Name: _____

Designation: _____

Department: _____

Organization: _____

Mailing Address: _____

Pincode: _____

Mobile No.: _____

E-mail: _____

Highest Academic Qualification : _____

Research Specialization: _____

Purpose of attending this workshop: _____

Experience (in years): (a) **Teaching:** _____ (b) **Industrial/Research:** _____

All data provided are true to the best of my knowledge and belief. Kindly register me for the short-term course on “Principles and Advances in Electromagnetics” to be held in online mode by IIT Madras.

Place: _____

Date: _____

(Signature of the applicant)