

CHIEF PATRON

Prof. S.Ramachandram, VC, OU

PATRONS

Prof. Ch. Gopal Reddy, Registrar, OU

Prof. Sameen Fatima, Principal, UCE, OU

Prof. P.Laxminarayana, Dean, FoE, OU

Prof. B.Rajendra Naik, Head, ECE, OU

Institute Coordinators for GIAN

Dr. V.V. Basava Rao, Dept. of Technology, UCT, OU

Dr. D.Rama Krishna, Dept. of ECE, UCE, OU

About GIAN Courses

MHRD, Govt. of India has launched an innovative program titled 'Global Initiative of Academic Network's (GIAN) in Higher Education, in order to garner the best international experience into our system. As a part of this, internationally renowned Academicians and Scientists are invited to augment the country's academic resources, accelerate the pace of quality reforms and elevate India's scientific and technological capacity to global excellence.

About Osmania University

Osmania University, established in 1917, has emerged as one of the premier institutions of higher learning in the country. It was conferred with the coveted status of "University with Potential for Excellence" in the year 2012. It epitomizes the national agenda on higher education for Access, Equity and Quality through Expansion, Inclusiveness and Excellence.

The University has a vast sprawling verdant campus of 1632 acres set in picturesque and idyllic surroundings, where diversity is valued and accepted. It owns a number of buildings of great architectural elegance and variety to enhance the beauty of the campus. Osmania University is organizing seminars, short term courses and 105-Indian Science Congress on the eve of centenary year (1917-2017).

About University College of Engineering

The University college of Engineering has the distinction of being the oldest and the biggest among the

Engineering Colleges of the State of Telangana. It was established in the year 1929, eleven years after the formation of Osmania University. The College was the sixth Engineering College to be established in the whole of British India. The college moved to its present permanent Building in the year 1947. The college was given autonomous status in 1994. The College successfully completed TEQIP-I and TEQIP-II projects with World Bank assistance. The College offers six undergraduate programs, twenty five postgraduate programs which are aimed to match current industry needs and self-employment. It also offers research programs leading to PhD in six different departments.

About Department of ECE

The Department of Electronics and Communication Engineering (ECE) was established in the year 1959. The department offers one UG program and PG program in five different specializations. The Department completed various sponsored research projects in the areas of Microwaves, VLSI, Wireless communication, GNSS, Image and Video Processing. The department also successfully implemented World Bank project IMPACT, Swiss development corporation project NETWORK, TEQIP phase I and phase II funded by World Bank. The Department also offers research program leading to PhD.

For Further Details Contact

Course Coordinator

Dr. D. Rama Krishna

Associate Professor

Department of ECE

University College of Engineering

Osmania University, Hyderabad-500007

Telangana, India.

Email: dasariramakrishna@yahoo.com

dasariramakrishna@osmania.ac.in

Phone: +91-9441154911(M)

+91-8142958000(M)



Call for Registration and Participation

One Week GIAN Course

ON

Advanced Electromagnetic Engineering

(02nd NOV – 08th NOV 2017)

By

International Faculty

Dr. Sadasiva M. Rao

Naval Research Laboratory, Washington DC, USA

Coordinator

Dr. D.Rama Krishna

Organized by

DEPARTMENT OF
ELECTRONICS AND COMMUNICATION ENGG
UNIVERSITY COLLEGE OF ENGINEERING (Autonomous)
OSMANIA UNIVERSITY
HYDERABAD-500007
TELANGANA, INDIA

Introduction

Electromagnetic Engineering is a branch of Electrical Engineering with innumerable applications in commercial and defense industries. Hence, it is a fundamental and classical subject in the Electrical Engineering education and requires a thorough understanding to design practical systems. Although the subject is introduced in every undergraduate Electrical Engineering curriculum, it is only done at a very basic level and not sufficient for handling practical applications. Hence, an advanced course is often required to become a successful engineer and work in the related electromagnetic engineering fields.

Many developments in the past 50 years in electromagnetic engineering are focused on generating and implementing computational tools to accurately predict the radar cross section, antenna radiation field, and other important parameters. Again, a thorough knowledge of these tools is a minimum pre-requisite for the practicing engineer.

In view of the importance electromagnetic engineering for present day applications, an advanced course is proposed and can be made available for students/engineers with a bachelor's degree in electrical engineering to become proficient in this area.

Course Objectives

The primary objectives of the course are as follows:

1. Exposing participants to the advanced concepts in Electromagnetic Theory.
2. Building confidence and capability to solve complex problems related to this area.
3. Providing exposure to practical problems and their solutions by introducing two very important numerical tools viz. Finite Difference Time Domain (FDTD) method and Method of Moments (MOM).

Who can Participate:

Registration is open to:

- i) Faculty members working in Engineering Colleges.
- ii) Executives, Engineers and Researchers from manufacturing, service and government organizations including R&D laboratories.
- iii) Students and Research Scholars from reputed academic institutions and technical institutions.

How to Register :

Stage-1 :

Web(Portal) Registration :

Visit GIAN Website at the link:

<http://www.gian.iitkgp.ac.in/GREGN/index> and create login User ID and Password. Fill up the blank registration form and do web registration by paying **Rs 500/-** online through **Net Banking / Debit / Credit card**. This provides him/her with life time registration to enroll in any number of the GIAN courses offered.

Stage-2:

Course Registration(Through GIAN Portal):

Log in to the GIAN portal with the user ID and password created. Click on 'Course Registration' option given at the top of the registration form. Select the course titled "**Advanced Electromagnetic Engineering**" from the list and click on '**Save**' option. Confirm your registration by Clicking on '**Confirm Course**'.

Selection and Mode of Payment

Selected candidates will be intimated through Email. They have to remit the necessary course fee to the Bank as per the details given below.

| | |
|----------------|--------------------------------------|
| Account Name | PRINCIPAL UCE OU COORDINATOR GIAN |
| Account Number | 37072716197 |
| Bank | State Bank of India |
| Branch | OsmaniaUniversity,Hyderabad |
| IFSC Code | SBIN0020071 |
| MICR Code | 500002342 |

Course Fees:

| | |
|--|-----------|
| Participants from abroad | USD 500 |
| Participants from industry/ research organizations | Rs 6000/- |
| Participants from academic institutions | Rs 3000/- |
| Student participants from India | Rs 1000/- |

The course fee includes instructional materials, tutorials, laboratory and computer use, free internet facility, working lunch, mid sessions tea and snacks.

Note: On request accommodation will be provided for few participants (on first come first basis) in the campus on payment.

For any queries regarding registration of the course, please contact the course coordinator.

Last Date for Registration: 20th October 2017

About Dr. Sadasiva M. Rao: Course Faculty



Dr. Sadasiva M. Rao is well known in the electromagnetic engineering community and included in the Thomson Scientific's Highly Cited Researchers List. This is a rare honor bestowed on the 250 most cited researchers in the world and is considered the most significant award given by any non-

partisan group for contributions to a field of research (For details, see the website: http://isihighlycited.com/isi_copy/howweidentify.htm) Furthermore, he received the prestigious Best Paper research award from the SUMMA foundation, awarded only once every three years for published research. He is the first individual to develop the triangular patch modeling technique that allows for the very accurate numerical solutions of several difficult electromagnetic scattering problems for the first time. These problems include the electromagnetic scattering from arbitrarily shaped conducting, dielectric and composite structures in the frequency domain and time domain. The impact of Dr. Rao's research on electromagnetic community and industry has been tremendous. Because of his efforts, the methodology of design and analysis of several critical systems, both in defense and commercial sectors and in many areas of research have completely changed.

Dr. Rao has been teaching electromagnetic theory, communication systems, electrical circuits, and other related course at the undergraduate and graduate level for the past 30 years at various institutions. Moreover, he has actively participated in several departmental/college level activities via various committees.