About Amrita

- Excellent placement record
- State-of-the-art infrastructure
- Excellent and committed faculty to facilitate higher learning
- Ambience, which nourishes the best of human values
- Campus networked through e-learning facility over Edusat
- Academic tie-up with leading Universities like SUNY Buffalo University, Princeton University, Purdue University, Uppsala University, Sweden
- Indo-US, Indo – European Union and Indo-Italy collaborations in various nationally important projects.
- Memorandum of Understanding with NAL, Wipro, TCS etc.
- Opportunities to work in funded projects – (DRDO, ISRO, AICTE, DST etc.)

Textbooks

"Fundamentals of Elecromagnetics for Engineering", by Nannapaneni Narayana Rao. To be published as Indian Edition, Pearson Education, July 2008.

"Elements of Engineering Eletromagnetics, Sixth Edition", by Nannapaneni Narayana Rao, Pearson Education, 2006.

Venue

Amrita School of Engineering, Amrita Vishwa Vidyapeetham, Ettimadai, Coimbatore – 641105

Duration

August 11, 12, 13, 14, 18, 19, 20 and 21, 2008

Times

Morning Session : 9:30 a.m. to 12:30 p.m.
Lunch : 1:00 p.m.
Afternoon Session : 2:30 p.m. to 4:30 p.m.

Professor Narayana Rao will be available for discussions with the participants at all other times during the two-week period on course-related and other academic matters.

Intended Participants

Faculty members in the Departments of Electrical and Electronics Engineering, Electronics and Communication Engineering, Electronics and Instrumentation Engineering, and Computer Engineering.

Send registration form with DD to,

K. Nimmy
Assistant Co-ordinator
Dept. of Indo-US University Initiatives
Amrita Vishwa Vidyapeetham
Ettimadai, Coimbatore, Tamil Nadu - 641 105
E-mail: indous@amrita.edu
Ph: 0422 2656422, Extn : 516

multimedia

Fundamentals of...
...Electromagnetics

A Two-Week, 8-Day, Intensive Training Course for

Faculty in Electrical-, Electronics-, Communication-,and Computer-Related Engineering Departments

by

Nannapaneni Narayana Rao
Edward C. Jordan Professor Emeritus of Electrical and Computer Engineering
University of Illinois at Urbana-Champaign (UIUC), Urbana, Illinois, US.A.

Distinguished Amrita Professor of Engineering
Amrita Vishwa Vidyapeetham
Ettimadai, Coimbatore, Tamil Nadu, India

MATA AMRITANANDAMAYI MATH

श्रद्धावान् लभते ज्ञानम्

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Biographical Sketch

Nannapaneni Narayana Rao, Edward C. Jordan Professor Emeritus of Electrical and Computer Engineering at the University of Illinois at Urbana-Champaign (UIUC), went to the United States in 1958 from India, after receiving the B.Sc. degree in Physics from the University of Madras in 1952, having attended the Presidency College, Madras, and Diploma in Electronics from the Madras Institute of Technology, Chromepet, in 1955. In the United States, he attended the University of Washington and received the M.S. and Ph.D. degrees in electrical engineering in 1960 and 1965, respectively. He joined the UIUC in 1965 and retired in 2007. During the 42 tears of tenure at UIUC, he has been engaged in research, teaching, administration, and international activities.

Professor Rao's research focused on ionospheric propagation. In his teaching, he taught a wide variety of courses in electrical engineering. He developed courses in electromagnetic fields and wave propagation and has published undergraduate textbooks: Basic Electromagnetics with Applications (Prentice-Hall, 1972), six editions of Elements of Engineering Electromagnetics (Prentice Hall, 1977, 1987, 1991, 1994, 2000, and 2004), a special Indian Edition of Elements of Engineering Electromagnetics (Pearson Education, 2006), and Fundamentals of Electromagnetics for Electrical and Computer Engineering (Prentice-Hall, 2009). In administration, he served as Associate Head of the Department for Instructional and Graduate Affairs for 19 years from 1987 to 2006.

Professor Rao is the recipient of numerous awards, many of which reflect his dedication to engineering education. He is a Life Fellow of the IEEE and a Life Member of the ASEE. Professor Rao has been active internationally in engineering education. He was involved in institutional development at the University of Indonesia in Jakarta during 1985-86, among other activities over the years. Following his retirement from UIUC, he is continuing the international activities, as Edward C. Jordan Professor Emeritus of Electrical and Computer Engineering at Illinois and Distinguished Amrita Professor of Engineering at Amrita University in India.

Course Goals

Electromagnetics is fundamental to the study of electrical (including electronics and communication) and computer engineering. The goal is to impart the essential elements of engineering electromagnetics that (a) constitute the foundation for preparing electrical-related majors to take follow-on courses, and (b) represent the essentials for computer-related majors taking this course only.

Topical Coverage (40 Hours)

1.	Review of vector algebra and field concepts; sinusoidally time-varying fields and polarization	(5 hours)
2.	Line and surface integrals; Maxwell's equations in integral form in free space	(3 hours)
3.	Maxwell's equations in differential form in free space; curl and divergence	(3 hours)
4.	Uniform plane waves in free space	(5 hours)
5.	Materials and uniform plane waves; boundary conditions	(6 hours)
6.	Static fields, quasistatic fields, and development of transmission-line concept	(6 hours)
7.	Transmission lines; frequency-domain analysis, including Smith chart; time-domain analysis	(7 hours)
8.	Other topics	(5 hours)
	Total	**(40 hours)**

Course fee: Rs 2500 for the full course

Accommodation and food can be arranged at Rs 1500 for full duration of the course.

Registration Form

Fundamentals of...
...Electromagnetics

August 11, 12, 13, 14, 18, 19, 20 and 21, 2008

Name: .....

Designation:.....

Educational qualification:.....

Address:.....

.....

.....

Ph: .....

E-mail:.....

Registration fee details:

DD drawn in favour of "Amrita Vishwa Vidyapeetham" payable at Coimbatore.

Amount.....DD No.....

Date & Bank: .....

Branch:.....

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

Last date of receipt of filled registration form

4th August, 2008

Sponsord by .....

.....

Name, signature & seal of the head of the sponsoring Institution