

DECLARATION

The above information is true to the best of my knowledge. I agree to abide by the rules and regulations governing the course. If selected, I shall attend the course for the entire duration. I also undertake the responsibility to inform the coordinators in case I am unable to attend the course.

Place :

Date :

Signature of the Applicant

SPONSORSHIP CERTIFICATE

Mr/Ms/Dr _____

_____ is an employee/student of our Institute and is hereby sponsored. He/She will be permitted to attend the course for the entire duration, if selected.

Office Seal

Signature of the
Sponsoring authority

Place:

Date:

Application form completed in all aspects is to be sent to:

Dr.S.Balambigai
Convenor

“Challenges in Deep Submicron CMOS Technology”

Dept of Electronics and Communication Engineering,
Kongu Engineering College,
Perundurai-638060, Erode, Tamilnadu.

ABOUT THE COLLEGE

Kongu Engineering College was established in the year 1984. Approved by AICTE, New Delhi and affiliated to Anna University, Chennai. It offers 17 UG programmes, 15 PG programmes and 15 Research programmes in Engineering, Applied Sciences and Management imparting high quality value-added education in India. The college has got NBA accreditation for UG programmes, NAAC accreditation with A++ grade, Best Engineering College award and Best Principal award twice. In the survey conducted by MHRD in the name NIRF (National Institution Ranking Framework), the Institution is placed in the second rank at Tamilnadu level and fifth rank at National Level among all Self-financing Colleges. In the same survey, the Institution has bagged 118th rank among all Engineering institutions in India including premier institution like IITs, NITs, etc. The institution has established a Technology Business Incubator (TBI) supported by Department of Science and Technology, Government of India in its campus. TBI@KEC has won the National Award, for the Best TBI in India, presented by President of India on Technology Day in New Delhi on 11th May, 2013.

ABOUT THE DEPARTMENT

The Electronics and Communication Engineering department occupies a prominent place in the annals of its academic history. The department has been consistently producing illustrious engineering graduates of high caliber who occupy prestigious positions in the academic and industrial fields. The specialization of the faculty includes Telecommunication System Engineering, Computer Networks, Power Electronics, Control Systems, VLSI, Bio-Medical Engineering, Digital Signal Processing, Microwave Systems, Automation, Instrumentation and Control etc. The department has excellent laboratory facilities in the areas like Networking, Microprocessors, Electronics, Communication, VLSI, Digital Signal Processing, Microwave, RF, Multimedia, Fiber Optic Communication, Computer Hardware and Maintenance and Computer Centres with latest software. The department offers four year UG programme in ECE and two year PG programmes in VLSI Design and Embedded Systems.



MeitY Sponsored Seminar on

“Challenges in Deep Submicron CMOS Technology”

06.01.2023

Dr. S.Balambigai
Associate Professor

Ms.A.Vennila
Assistant Professor

Ms.G.Sivapriya
Assistant Professor

Organized by
Department of Electronics and Communication Engineering
KONGU ENGINEERING COLLEGE
Perundurai– 638060, Erode, Tamilnadu.

Mobile : 9443895494, 9710888800, 9715397992

Tel : 04294 - 226532

Fax : 04294 - 220087

E-mail : sbalambigai@kongu.ac.in

vennila.ece@kongu.ac.in

sivapriya.ece@kongu.ac.in

Website : www.kongu.ac.in



OBJECTIVE

MOS Very Large Scale Integration circuits (VLSI), have undergone vast advancement for the past three decades and it is expected to continue in the future. The continuous improvement is made by reducing the size of the components in the VLSI such as CMOS. However, even before the downsizing of the VLSI devices reaches its fundamental limits this process is expected to encounter severe technological and economic problems when the minimum features of the active devices are going to shift to dimensions below 0.25 μm . This downsizing allows minimizing transistor dimensions and increasing the number of devices per chip. The drift towards deep sub-micron technologies has resulted in the exploration by several research groups of the possible use of CMOS technologies for the design of RF circuits. Particularly the development of new receiver topologies, like wide-band-IF and low-IF topologies, in combination with highly linear down-converters, has opened the way to fully integrated downconverters with no external filters or components. Many challenges like signal integrity, power problems, interconnect noise and interconnect delay are to be considered while the design of deep submicron CMOS IC's. This seminar provides a deep analysis on the challenges to be considered while the design of deep submicron CMOS IC's and helps the young researchers to work with this technology.

The programme contents of the seminar are as follows:

- Introduction to deep submicron CMOS technology
- Need for downsizing the components in IC fabrication
- Design challenges for deep submicron CMOS technology
- Test challenges for deep submicron CMOS technology
- Design of deep submicron and ultradeep submicron technologies

RESOURCE PERSONS

Sessions will be handled by experts from KEC and other reputed institutions.

ELIGIBILITY

Personnel from AICTE approved Engineering Colleges, Industries and Research Scholars.

BOARDING AND LODGING

Boarding and lodging will be provided to the participants in the college campus on chargeable basis.

REGISTRATION FEE DETAILS:

Registration Fee: Nil

HOW TO APPLY

The applicants should send their applications in the specified format on or before 28.12.2022. Register with the below link.

<https://forms.gle/qNkBAvHPoqmB27X97>

LOCATION

The college is situated at Perundurai on the National highway (NH 47) about 80 km from Coimbatore and 20 km from Erode. It is well connected by road and rail.

SCHEDULED DATES

Last Date for Receipt of Applications : 28.12.2022

Intimation of Selection : 29.12.2022

Confirmation by Participants : 30.12.2022



KONGU ENGINEERING COLLEGE

(Autonomous)

PERUNDURAI- 638060, ERODE, TAMILNADU

MeitY Sponsored Seminar

on

“Challenges in Deep Submicron CMOS Technology”

06.01.2023

APPLICATION FORM

Name :

Department :

Educational

Qualification :

Age :

Organization :

Designation :

Address for

Communication :

E-mail ID :

Mobile Number :

Need Accommodation: Yes/No

Signature of the

Sponsoring Authority

Signature of the

Applicant

