

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:

Mr.K.Senthil Kumar

Assistant Professor

Co-ordinator

Hands on Training on

“Quantum dot Cellular Automata (QCA)”

Dept of Electronics and Communication Engg,

School of Communication and Computer Sciences

Kongu Engineering College

Perundurai, Erode-638 060, TamilNadu.

ABOUT THE COLLEGE

Kongu Engineering College (KEC) is a leading teaching and research institution with state-of-the-art facilities, run by The Kongu Vellalar Institute of Technology Trust. It is an autonomous institution affiliated to Anna University, Chennai and has completed 35 years of dedicated service to in Technical Education. Many of the UG Programmes are accredited by National Board of Accreditation (NBA). This ISO certified Institution is also accredited by The Institution of Engineers (India). It has a built-up area of more than 2.2 million square feet in a green campus of 167 acres. The College has about 1065 faculty and staff members and 8500 students. The Institution offers 14 Under Graduate and 19 Post-Graduate programmes in Science, Engineering, Technology and Management and 16 Research Programmes.

ABOUT TECHNOLOGY BUSINESS INCUBATOR

TBI@KEC was established in 2003 at KEC campus by KEC with the support and grant-in-aid from the NSTEDB/DST/GoI. With the motto “Concept to Commercialization”, TBI’s prime objective is to nurture start-ups in the emerging Electronics and ICT related technology areas with particular reference to Embedded Systems, Digital Signal Processing, Electronic Card Design, Assembly, Testing and Repair, Multimedia and Wireless Technology. TBI also provides seed fund support to the deserving Incubatees upto Rs.50 lakh per project. Utilizing the infrastructure, mentoring and other facilities of TBI, 74 Entrepreneurs/ Innovators have got benefitted and more than 84 products have been designed, developed and launched in the market. In recognition of the contribution and performance of TBI@KEC, DST/GoI conferred on TBI@KEC the National Award for Best TBI for the year 2012. The award was presented by Shri Pranab Mukherjee, President of India, on Technology Day 2013 in New Delhi in May 2013.

PRAYAS Scheme

Under the Scheme, young innovators are supported for converting their ideas into prototype in duration of 18 months with grant up to Rs.10 Lakh (Max).The scheme can support 50 or more innovators over a period of 5 years. A facility to build prototypes has been established with the fund of Rs.1 crore provided under the scheme

ABOUT THE DEPARTMENT

Department of Electronics and Communication Engineering offers BE degree Programme in ECE, ME degree Programmes in VLSI Design, Communication Systems and Embedded Systems. Besides teaching, the department is actively involved in industrial consultancy, and conducting training programmes for students and practicing engineers.



**Hands on training on
“Quantum dot Cellular Automata (QCA)”**

Date: 06.09.19 to 07.09.2019

Co-ordinators

**Mr.K.Senthil Kumar
Assistant Professor**

**Mr.A.Chandrasekaran
Assistant Professor**

&

**Ms.K.Hemalatha
Assistant Professor**

**Organized by
Technology Business Incubator @
Kongu Engineering College**

&

**Department of Electronics and Communication
Engineering
School of Communication and Computer Sciences**

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Website: : **www.kongu.ac.in
www.tbi-kec.org**



OBJECTIVE

As transistors have decreased in size, more and more of them have been accommodated in a single die, thus, increasing chip computational capabilities. However, traditional transistors cannot get much smaller than their current size, which causes a large impact on the speed performance and power consumption of future designs. The challenges created by this trend could be partially met by innovative technologies, proposed as alternatives to the classic CMOS. Among them, a quantum-dot cellular automaton (QCA) is one of the most promising solutions to design ultra low-power and very high speed digital circuits. QCA technology offers a revolutionary approach to computing at the nano-level. This workshop is dedicated to advances in all aspects of QCA-based digital designs, from the introduction of new basic logic functions, up to innovative layout strategies.

The main goal of this workshop is to bring together researchers from both academia and industry, to discuss recent advances, identify future directions in Nanotechnology and Quantum Dot Cellular Automata (QCA), and to foster interdisciplinary collaborative research in this area

PROGRAMME CONTENTS

- Introduction to Nanotechnology and Quantum Dot Cellular Automata (QCA)
- QCADesigner tool overview
- QCA clocking
- QCA crossover
- Design of Basic gates using Majority gate and inverter
- Discussion on J-Map
- Design of combinational circuits
- Design of Sequential circuits
- Recent trends in QCA
- Research Focus in QCA

RESOURCE PERSONS

Sessions will be handled by experts from KEC 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 (Rs.200/- per day).

REGISTRATION

Registration Fee: Rs 1000/- .
The Demand Draft for the registration fee must be drawn in favour of **“Technology Business Incubator at Kongu Engineering College”** payable at Perundurai or Erode.

HOW TO APPLY

The applicants should send their applications in the specified format to reach us on or before 20.08.2019. If selected, they should confirm their participation as per schedule below.

LOCATION

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

SCHEDULED DATES

Last Date for Receipt of Applications : 20.08.2019
 Intimation of Selection : 21.08.2019
 Confirmation by Participants : 22.08.2019

KONGU ENGINEERING COLLEGE
 (Autonomous)
 PERUNDURAI ERODE 638 060 TAMILNADU

Hands on training on
“Quantum dot Cellular Automata (QCA)”
Date: 06.09.19 to 07.09.2019

APPLICATION FORM

- Name :
- Department :
- Educational Qualification :
- Age :
- Organization :
- Designation :
- Address for Communication :
- E-mail ID :
- Mobile Number :
- Need Accommodation: Yes/No

DD Details

- DD No. \ Date :
- Bank Name :

Signature of the Sponsoring Authority **Signature of the Applicant**