



KNOWLEDGE INSTITUTE OF TECHNOLOGY

(Approved By AICTE, New Delhi & Affiliated To Anna University, Chennai)

A PREMIER ENGINEERING INSTITUTION PROMOTED BY EMINENT ENGINEERING PROFESSORS

KIOT CAMPUS, KAKAPALAYAM (PO), SALEM – 637 504



“To Empower Yourself !! Join ME VLSI DESIGN @ KIOT ”



PG BROCHURE

M.E. – VLSI DESIGN

**KIOT Campus, Salem to Coimbatore Highway,
Kakapalayam Post, Salem – 637 504**

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ME VLSI DESIGN BROCHURE

The Department of ECE was started in the year 2009 and has been continuously striving for excellence in engineering education and research. The Department offers the PG programme VLSI Design from 2012 and PhD programs from 2015 covering the broad spectrum of electronics and CAD with well-equipped IEEE certified Research laboratories, excellent industry interaction and campus placement drive. A judicious mix of experienced and young faculty with strong commitment to academics as well as 360 degree personality development has created an ambience for teaching learning process at KIOT.



**IEEE USA
(Mutual NDA)
for IEEE
Blended
Learning in
VLSI recognized
PG VLSI Lab
as IEEE
Certified VLSI
Laboratory.**

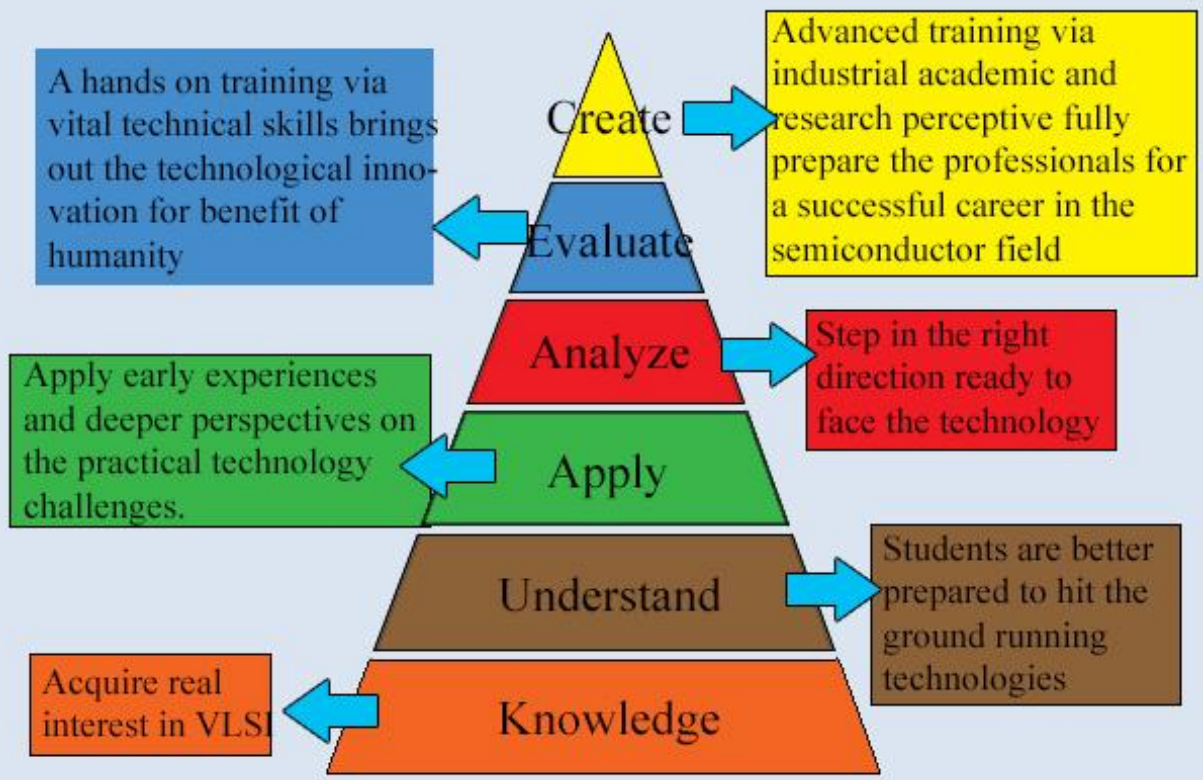
Tools and Design Software:

Software Tools	Hardware Tools
Electronic Design Automation tools	Altera cyclone FPGA Evaluation boards
Mentor graphics IC nanometres Design	Virtex IV FPGA Evaluation boards
Xilinx foundation series	Spartan 3E & 6E with OMAP Processor Kits
Quartus II foundation series	Analog Discovery kit, Logic, Spectrum & Network analyser

Courses:

Technology Course	R&D labs
IEEE blended learning program in VLSI	Medical image processing-Aphelion-Dev by online solutions (images) Pvt ltd, Chennai
Texas Instruments University program in Circuit design	Lab VIEW Virtual instrumentation Lab by National Instruments, Bangalore.
CoreEL Technology program in CAD	Electron Design Automation lab by CoreEL Technologies, Bangalore
Spartan 6 unified technology course by WIPRO Technologies, Bangalore	Mission 10X Technology learning centre by WIPRO Technologies, Bangalore

Teaching learning process at KIOT



M.E VLSI Design-Blooms taxonomy

Outcome



Highlights of Department:



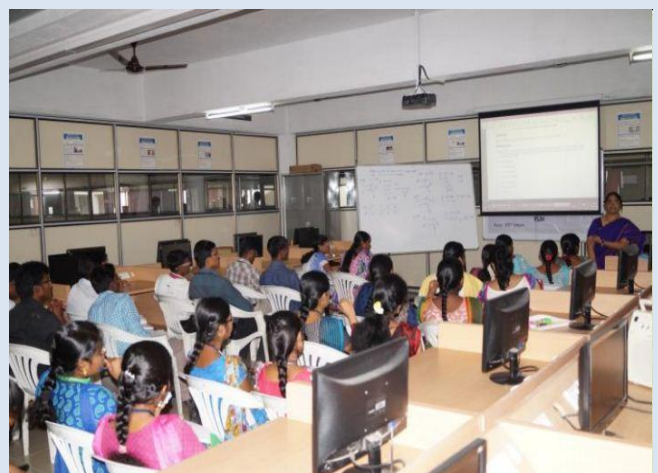
- ✓ Dr.N.Santhiyakumari Prof & Head ECE received Maharashtra State National Award for the best research work done by teachers of engineering college across India.
- ✓ Received 25 Lakhs Funds from AICTE, IEEE and from MSME for pursuing research activities.
- ✓ 100% of the faculty in the department were trained by Wipro Mission 10x learning centre for inculcating better teaching learning process
- ✓ 75% of the faculty undergone Industry training to bridge the gap between academia – industry.
- ✓ Department works with sponsored R & D laboratories from industries to pursue research activities from PG.
- ✓ Anna university approved research center.

ME VLSI Design rank holders:



Resources:

Laboratories	Library
VLSI Design Laboratory	IEEE Digital library
Digital hardware design lab	Central Library with e books & IEEE journals
VLSI IEEE blended learning Laboratory	Department PG library, NPTEL, MOOC
System level design and modelling	IIT Bombay A View



Centre for virtual instrumentation and graphical programming



Centre for innovation and product development

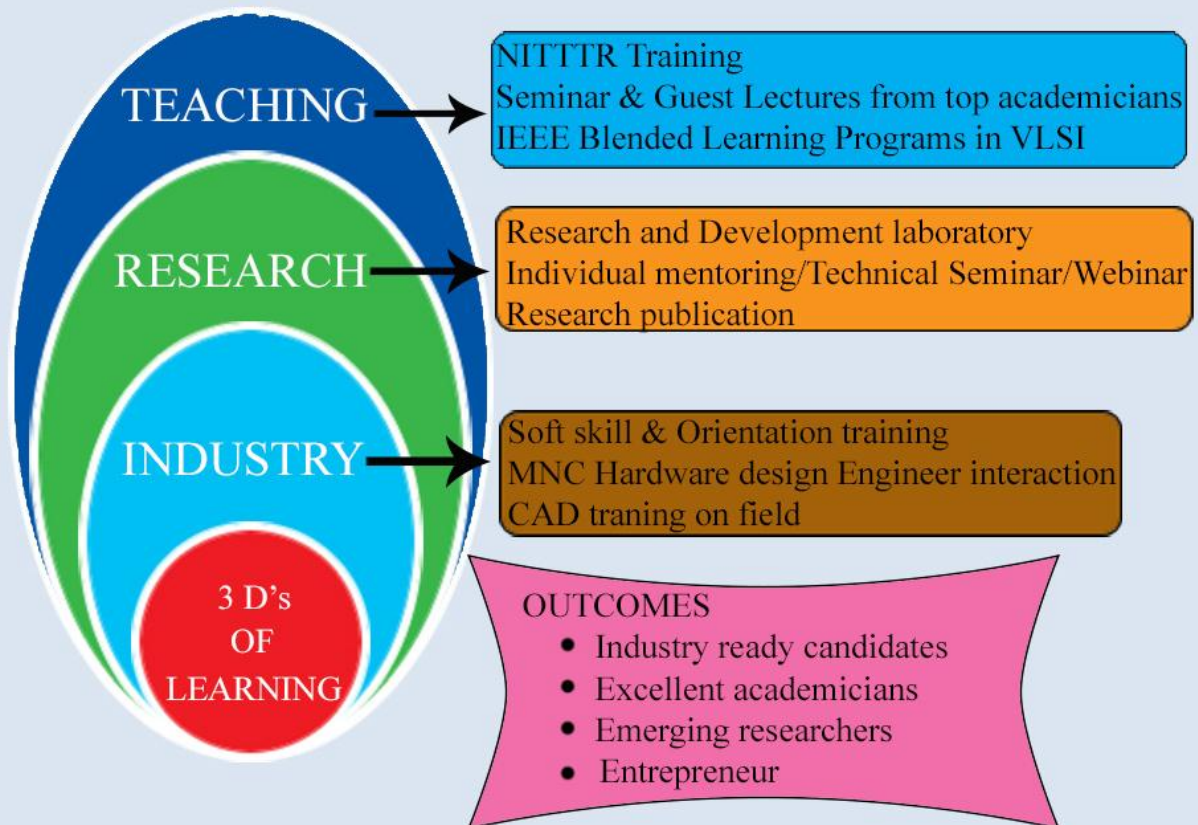


Texas instruments research center for analog and digital design



Centre for medical imaging and signal processing

Three dimensions of learning @ KIOT



Activities for PG @ KIOT

Communication, Placement Training and orientation Program

- ✓ Col's calibre Education, Pvt. Ltd, Chennai
- ✓ World Wide Education, Salem.
- ✓ Teaching Pedagogy, NITTTR, Bangalore
- ✓ Skills India Foundation, Pondicherry
- ✓ Relax Academy, Mr. Ragunath, Chennai
- ✓ Dr. Radhakrishnan, Psychologist, Chennai

- ✓ Mr. B. Anand, R10 GINI Group Administrator, SAC India.
- ✓ Mr. Barnabasmuthu, Wipro Technologies, Vice Chair, GINI MAS Executive Committee.
- ✓ Taalkshow Academy, Chennai



Training by Academicians

- ✓ Dr.Sridhar Krishnan, Interim Dean, Faculty of Engineering and Architectural Science, Ryerson University.
- ✓ Prof.M.Baskar, Associate Professor, Department of ECE, National Institute of Technology, Trichy.
- ✓ Dr.V.Vaidehi, Prof & Head Dept IT, MIT Campus, Anna University, Chennai
- ✓ Dr.Ramakomargiri, NIT, Calicut, Kerala.

- ✓ Dr.RajapaulPerinbam, Ex Anna University Professor, Department of ECE, Karpaga Vinayaga Engineering College.
- ✓ Mr.Vimalthithan Senior Research University, Padova, Italy.
- ✓ Dr. Ramalatha Marimuthu, IEEE WIE Coordinator, Prof & Head IT, Kumaraguru College.



Training by Industry Experts

- ✓ Mr.V.Dinesh Kumar, Technical Lead Wipro Technologies, Bangalore.
- ✓ Mr.GurjithSingh, Managing Director, Gill Instruments, Bangalore.
- ✓ Dr. G.V.Suresh, Director HR & GM, Business Partner Dell Software Group I – Asia Pacific, Bangalore.
- ✓ Mr.SakthivelManikandan, Technical Specialist , Robert Bosch Engineering and Business, Coimbatore
- ✓ Mr.ArunKumar, Senior Engineer, DELPHI TVS Chennai.

- ✓ Mr.K.Madhukiran, Application Engineer, CorEL Technologies, Bangalore.
- ✓ Mr.S.Sukumar, Director, Online Solutions (Imaging) Pvt.Ltd, Chennai.
- ✓ Mr.T.Rajendra Prasad, Vice President, Embedded Systems Solutions Pvt.Ltd., Chennai.
- ✓ Mr.T.Baburaj, Senior Hardware Engineer, Microchip Technology, Chennai
- ✓ Mr.Brunojacgues lay, CEO, ADCIS, Normandy, France



PG Students Publications:

ME VLSI Design	National Conference	International Conference	Journal
2012-14	25	23	25
2013-15	19	21	18
2014-16	20	17	15

PG Student's Achievements:

Knowledge Institute of Technology Students Bagged First 10 Prizes in the **NATIONAL LEVEL TEXAS INSTRUMENTS (TI) WEBNECH DESIGN CONTEST 2015**, ME VLSI Design student Ms.P.Rajeswari was one among top 10, with 70,000 Cash Award from 2731 Participants in 249 Colleges across India. The Students designed a USB port Charger with the given input supply voltage of 9v to 15v and input Current 500mA. In this contest, our ECE students used Webench tool and attained the efficiency of 90%.



Ongoing/ Current Industrial Collaboration:

✓ Texas Instruments	✓ Silicon Partner design services Pvt Ltd, Chennai
✓ Intel	✓ Strobilantes Technologies Pvt Ltd, Chennai
✓ IBM	✓ Data Logic, Bangalore
✓ HCL Technologies	✓ Blue Whale solutions, Chennai
✓ I-nautix	✓ Quest Global, Bangalore
✓ Flextronics	✓ VVDN Technologies, Chennai
✓ TCS	✓ Scope e Knowledge Services, Chennai



Eligibility: B.E / B.Tech in ECE, EEE, CSE, ICE, EIE & IT