SRI VENKATESWARA COLLEGE OF

ENGINEERING



Three day Workshop on Semiconductor Nano Devices -**Modeling and Fabrication** 16 to 18 - Feb -2018 **REGISTRATION FORM**

Name:

Dept:

UG Student/PG student/ Faculty: Specialization:

Name of the Institution with Address:

Mobile No:

Email: Details of Registration Fees : DD/Cash

DD No:

Issuing Bank:

DECLARATION

Dr./Ms/ Mr is an employee/Student of our institution is sponsored to attend the three day workshop on 'Semiconductor Nano Devices – Modeling and Fabrication' ' on 16 to 18 – Feb-2018.

Signature of the Applicant

Signature of the Forwarding Authority with seal and date.

ABOUT THE COLLEGE

Sri Venkateswara College of Engineering (SVCE), a premier self-financing engineering college was started in the year 1985 and is managed by Sri Venkateswara Educational and Health Trust. The college conducts 10 BE / B.Tech Degree Courses, 10 PG Courses in Engineering and 11 research centers approved by Anna University. The courses are approved by AICTE and affiliated to Anna University, Chennai. The college is accredited by National Assessment and Accreditation Council (NAAC). The college is situated in a quiet environment about 37 Kms from Chennai and situated on the way of Chennai – Bangalore National Highway (NH4) at Pennalur, Sriperumbudur in Kancheepuram district



NANOTECHNOLOGY

The interdisciplinary Centre for Nanotechnology was established with grant awarded by the SVCE management. ICN-SVCE is engaged in research anddevelopment activities in the broad areas encompassing semiconductor device modeling, synthesis of semiconductor devices using wet methods and Sputtering, material characterization, materialmodification, and nurturing innovative ideas. The centre brings together researchers from the various departments of Chemical Engineering, Materials Science, Chemistry, Physics, Electrical Engineering and Biotechnology. The team comprises a set of dedicated, highly qualified, widely experienced motivated researchers. and



SRI VENKATESWARA COLLEGE OF ENGINEERING



Three day Workshop on Semiconductor Nano Devices -**Modeling and Fabrication** 16 to 18 - Feb -2018

Organized by

INTERDISCIPLINARY CENTRE FOR NANOTECHNOLOGY

Department of Electrical and Electronics Engineering

IEEE-Student Chapter, SVCE

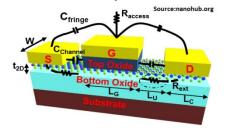
CONVENOR

Dr. KR. SANTHA

COORDINATORS

Dr.SUDHAKAR K.B Dr.NALINKANTH GHONE

Sri Venkateswara College of Engineering, Pennalur, Sriperumbudur.



	Key Note Speakers and Resource Persons	REGISTRATION FEE
ABOUT THE WORKSHOP	Dr.Shreepad Karmalkar, Professor of Electrical	SVCE students – Rs. 1000
The workshop aims at introducing the	Engineering at IITM. His areas of interest include	Students from other institutions- Rs.1500
students/Research scholars/Researchers to the	modeling and technology of semiconductor devices.	Faculty members – Rs. 2000
modeling and fabrication of semiconductor devices,		
so as to kindle an interest to work on the analytical	Dr.K.Rathnakannan, Assistant Professor,	Admission is based on first come first-served basis.
and numerical modeling of a Nano-device. The	Department of Electrical and Electronics Engineering,	The fee includes course materials, certification and
recent advancements in the field of Nano-electronics		refreshments.
and the various methods of Nano-fabrication will be	College of Engineering Guindy, Anna University. He	Terrestiments.
provided. A demonstration of RF magnetron	has worked on the Analysis of Reconfigurable	The registration fee must be submitted in the form
sputtering, where the particles of a solid target are	Computational Processing Logics in Single Electron	of a crossed demand draft drawn in favor of 'The
ejected by bombardment of energetic particles will	Technology. Areas of interest: Nanoelectronics, VLSI,	Principal, Sri Venkateswara College of Engineering',
be shown to the participants. The workshop will be	Embedded Computing and Processors	payable at Sriperumbudur.
handled by the most eminent faculty/experts from		
IITM/ AU/ SVCE/ industry in the areas of	Dr.R.Srinivasan, Professor, SSN College of	IMPORTANT DATES
Semiconductor Device modeling, compact modeling,	Engineering. His research interests include VLSI,	INIPORTANT DATES
emerging memory and transistor technologies and	nano-scale transistors, and micro/nano-electronics	Last Date of registration: 07.02.2018
their micro-fabrication. As CMOS devices	and analog circuits. He has a good working	
approaches the end of physical scaling, innovations		Intimation of selection : 10.02.2018
in switches, design aspect, material systems, and	experience on nano-scale MOSFETs using TCAD	
their accompanying circuit advancements will be	simulations.	TRANSPORTATION
focused in this workshop. The three-day workshop		
is organized in a module format, with each module	Dr.A.Anandavadivel , Assistant Professor, Sri	The participants have to make their own
having lectures, tutorial, hand-on lab sessions and	Venkateswara College of Engineering. His research	arrangements for travel.No TA/DA will be provided.
demonstrations.	interests include Dielectrics and condensed matter	
TOPICS TO BE COVERED	physics.	ADDRESS FOR COMMUNICATION
Introduction to Semiconductor Devices and		Sudhakar K.B
Modeling	Dr.Sudhakar.K.B, Professor, Sri Venkateswara	Professor,
Nanoelectronics	College of Engineering. His areas of interest include	EEE Department,
Scaling issues of CMOS devices –	Semiconductor material synthesis and device	Sri Venkateswara College of Engineering,
Technology nodes	fabrication using Molecular Beam Epitaxy, RF/DC	Pennalur, NH-4,
Compact Modeling of a Nano-device	Sputtering, their Structural, Optical and Electrical	Sriperumbudur,
Emerging memory technologies – Non-	characterizations for optoelectronic, solar cell and	Kancheepuram- Dist,
volatile SRAM, monolithic 3D, X- point	flexible electronic applications.	Tamilnadu-602117.
Emerging Transistors- HTFET, GpnFET,		
Ferroelectric, Negative Capacitance FETs	In addition, experts from semiconductor	Phone: 9487590691,
Emerging optoelectronic devices:	industries will be invited for keynote	Cell No: 9566155731.
Photodetectors and Sources	address.	
Nano device challenges and opportunities	ELIGIBILITY	
• Clean room demo fabrication of a Nano-		
device	The workshop will be useful for faculty members	
Hands-on session on MOS modeling	who want to pursue research in the field of Semiconductor devices Modeling and Fabrication,	E-mail :sudhakar@svce.ac.in
	Compact modeling, Emerging memory technologies,	sanitha@svce.ac.in
	Ph.D research scholars, UG and PG students of EEE,	
	ECE, CSE and IT.	
	ECE, CSE and II.	

Sri Venkateswara College of Engineering

(Approved by the A.I.CT.E. Accredited by the NAAC and affiliated to Anna University Chennai) Post Bag No.1, Pennalur, Irungattukottai Post, Sriperumbudur Tk. 602117 India.

Phone : 91-44-27152000 (20 Lines) 27163783/27163784/27107016 Fax : 91-44-27162462 / 27162494 Email : acm@svce.ac.in URL : http://www.svce.ac.in



12/2/2018 Sriperumbudur

Respected Dr.Rathnakannan,

Sri Venkateswara College of Engineering is organizing a 3 days workshop on "Semiconductor Nano Devices – Modeling and Fabrication". The workshop aims at introducing the participants to the analytical and numerical modeling, micro-fabrication of semiconductor nano-devices and emerging Nano-devices.

I would like to extend my invitation to you to be the Chief Guest and keynote speaker for the workshop inaugural function.

Workshop Dates : 16th to 18th - February, 2018.

Inaugural function: 16th February, 2018 at 9AM followed by your keynote address.

Looking forward to your acceptance.

Thank You Regards KR Sant 15-2-18

Dr.KR. Santha Vice-Principal HOD/ Electrical and Electronics Engineering, Sri Venkateswara College of Engineering



Sri Venkateswara College of Engineering



Pennalur, Sriperumbudur – 602 117

IEEE Student Branch

Department of Electrical and Electronics Engineering

Interdisciplinary Centre for Nanotechnology

Solicits your esteemed presence For the inauguration of Three days Workshop on

Semiconductor Nano Devices – Modeling and Fabrication

Inauguration and Address

by

Dr.K.Rathnakannan

Assistant Professor, Department of Electrical and Electronics Engineering, College of Engineering, Guindy, Anna University

Venue: Library Seminar Hall

Time: 09:30 AM

Date: 16/02/2018

ALL ARE WELCOME

Program Schedule

Date: - 16th February 2018

Time: - 9:30 am to 10:00 am

1. Prayer song

2. Welcome address

3. Inauguration by Chief Guest

4. Introduction of Chief Guest by the Vice Principal, SVCE

5. Inaugural Speech and Keynote address by Chief Guest

Sri Venkateswara College of Engineering Sriperumbudur 602117 Department of Electrical and Electronics Engineering

Three days workshop on Semiconductor (Nano) Devices – Modeling and Fabrication Feb 16-18, 2018

S. No	Time	Session Topic	Speaker	Venue
		Feb 16 (DA	Y 1)	
1	09:30 -10:00 AM	Inaugural Session	Dr.KR.Santha, Vice-Principal, SVCE	Library Seminar Hall
		Tea Brea	ak	
2	10:15 -11:15 AM	Introduction to Semiconductor Devices, Physical Modeling of a Nanodevice	Dr.K.Rathnakannan, Anna University, Chennai	Library Seminar Hall
3	11:15 AM-12:30 PM	Silicon Nanotube FET	Dr. R. Srinivasan, SSN College of Engineering, Chennai	Library Seminar Hall
		Lunch Bre		1
4	01:30 -03:00 PM	Fabrication of Nanofibres by Electrospinning	Dr. T. S. Natarajan, Professor, IIT Tirupati	Library Seminar Hall
		Feb 17 (DA	(Y 2)	
5	09:00 -10:30 AM	Introduction to Semiconductor Device Modeling for Engineering students	Prof.Shreepad Karmalkar, Professor, IIT Madras	Library Seminar Hall
		Tea Brea	ık	
6	10:40 AM-11:30 AM	Building a Transistor	Dr.Sudhakar.KB, Professor, SVCE	Video Hall
		Lunch Bre	eak	
7	12:45 PM – 1:45 PM	Electrospinning to Nanotechnology	Dr.Anandhavadivel, Associate Professor, SVCE	Video Hall
8	1:45 -03:15 PM	Fabrication of a Nanodevice – Lab Demo	Dr.Sudhakar.KB, Professor, SVCE, Research Scholar	ICN – TIC Building
		Feb 18 (DA	XY 3)	
9	09:00 -10:30 AM	Emerging Memory, Optoelectronics and Solar cell devices	Dr.Sudhakar.KB, Professor, SVCE	Library Seminar Hall
		Tea Brea		1
10	10:45 AM – 12:30 PM	Fabrication/ Modeling of a Nanodevice – Lab Demo	Research Scholar	ICN – TIC Building ,EE Block- Software Lab
		Lunch Bre		1
10	1:30 – 03:00 PM	Lab Demo - Contd	Research Scholar	ICN – TIC Building, EE Block- Software Lab
11	03:00-03:15 PM	Valedictory Function	Dr.Sudhakar.KB	Seminar Hall

Pictures from the Workshop:







Certificate Distribution



KR Sarl

Head of the Department Department Electronic Engineering Sri Verkeleswara College of Engineering Periodus, Sriberonbudur Talek-802 117 Tamili naciu, INDIA

NK molary

DR.N.K.MOHANTY, Asso Prof EE

Co Ordinator

Sri Venkateswara College of Engineering

Sriperumbudur 602117

Department of Electrical and Electronics Engineering

Interdisciplinary Centre for Nanotechnology

Three days workshop on Semiconductor (Nano) Devices – Modeling and Fabrication

Feb 16-18, 2018

Participant List

Sl No	Name	Name of the Institution	Amount
1	Vijay H.M	VIT - Vellore	1500
2	Ramkumar K	VIT - Vellore	1500
3	S. Ashwinkarthik	SVCE, Sriperumbudur	600
4	Ajay Krishna R.V	SVCE, Sriperumbudur	600
5	Sivaranjani K	SVCE, Sriperumbudur	600
6	Sangavi J	SVCE, Sriperumbudur	600
7	Arthi K	SVCE, Sriperumbudur	600
8	Padmavathy M	SVCE, Sriperumbudur	600
9	Sabarivasan R	SVCE, Sriperumbudur	600
10	Santhosh Kumar K	SVCE, Sriperumbudur	600
11	Shri Lakshmi A	SVCE, Sriperumbudur	600
12	Meghana N	SVCE, Sriperumbudur	600
13	Balachander	SVCE, Sriperumbudur	600
14	Hariharan D	SVCE, Sriperumbudur	600
15	Ramkumar S	SVCE, Sriperumbudur	600
16	Natarajan A	SVCE, Sriperumbudur	600
17	Bhaskar S	SVCE, Sriperumbudur	600
18	Leoponraj S	SVCE, Sriperumbudur	600
19	Kevin Immanueal Gubbi	SVCE, Sriperumbudur	600
20	Aviakshi	SVCE, Sriperumbudur	600
21	Varsha S	SVCE, Sriperumbudur	600
22	Nandhini Priya	SVCE, Sriperumbudur	600
23	Shoja Sherlin	SVCE, Sriperumbudur	600
24	Poornima K	SVCE, Sriperumbudur	600
25	Gowtham K	SVCE, Sriperumbudur	600
26	Abhirami S	Crescent University	1500
27	Yusuf Umar Tarauni	SRM University	1500
28	Nithyashree R	SVCE, Sriperumbudur	600
29	Sangeeta Meena	SVCE, Sriperumbudur	600
30	Mohana Krishnan K R	SVCE, Sriperumbudur	600
31	Priyanka A	Anna University	1500
32	Premkumar.M	SVCE, Sriperumbudur	600
33	R.Jothiraj	SVCE, Sriperumbudur	600

34	S.Akshay	SVCE, Sriperumbudur	600
35	Vasavi.S Panimalar Engg College		1500
36	K.Sai Krishna	Saveetha School of Engg	600
37	N.Santhosh Kumar	Saveetha School of Engg	600
38	S.Sai Chandra Mouli	Saveetha School of Engg	600
39	K.Mounica	Saveetha School of Engg	600
40	V.Babu Rao	Saveetha School of Engg	600
		Total Amount	29400