

**Sri Venkateswara College of Engineering  
Autonomous-Affiliated to Anna University  
Pennalur, Sriperumbudur**

**IEEE STUDENT BRANCH INAUGURAL FUNCTION -2017**

The inauguration of the IEEE student Branch-2017 Sri Venkateswara college of Engineering (Autonomous) was held on 11<sup>th</sup> February 2017. Dr.N.Kumarappan HOD/EE Annamalai University, Chair, IEEE-Computational Intelligence society, lighted the Kuthuvilakku and initiated the activities.



Later, the office bearers of IEEE Students branch of Sri Venkateswara college of Engineering for the year 2017 were introduced by Mr.T.Raghavendran, Treasurer of IEEE student's chapter. This was followed by the inaugural speech by the Chief Guest, Dr.N.Kumarappan. The students were informed about the benefits of being an IEEE member and the various resources available like IEEE magazines, Journals and transactions that would help them to get updated in their areas of interest. Dr.N.Kumarappan further spoke about the opportunities at IEEE Madras section, and various honors offered. The other highlights of his speech include: the significance of publishing an international IEEE manuscript, developments in engineering and technology in the past decade. On a concluding note, Dr.N.Kumarappan encouraged the students to become IEEE members and wished the student branch all success. The event concluded with a vote of thanks followed by National Anthem.

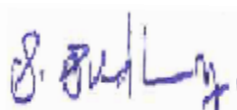



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**One day Workshop On NANOSCIENCE AND NANOENGINEERING**

The IEEE student branch – SVCE Section in Chennai, hosted a one day workshop on “Nanoscience and Nano-Engineering”, on 07<sup>th</sup> March 2017 at Sriperumbudur. A total of 35 attendees from different departments participated in this workshop. Dr. KR. Santha, the Organizing Chairman of IEEE student branch – SVCE, in her opening and welcome address highlighted the outcomes of the IEEE workshop and the future development in the fields of Nanoscience and Nano-Engineering. She emphasized that since this is the first event after the establishment of Interdisciplinary Centre for Nanotechnology at SVCE, this workshop would be a good introduction to the students who wish to do project during their final years. Dr. R. Muthucumaraswamy, Dean Research, Professor & Head of Applied Mathematics, SVCE, formally inaugurated the IEEE Workshop and in his inaugural address, stressed the importance of Nanotechnology and the future projects in Nano-Engineering. Dr. Sudhakar K Bharatan, Professor, EEE, SVCE, in the 1<sup>st</sup> lecture explained the fundamentals of Nanotechnology, current status in India, and process of microfabrication of Integrated Circuits. He gave detailed explanations on how the ingots are formed from seed crystals, and also mentioned how a device is fabricated starting from an Ingot. Dr. S.Moorthy Babu, Director, Centre for Nano Science and Technology, Anna University, then addressed the students and gave a talk on solar cells and the chemical routes of synthesizing them. He further explained the different methods of synthesizing graphene from graphite. In the afternoon session, the students were shown the actual DC Sputtering equipment in the Interdisciplinary Centre for Nanotechnology at SVCE. Dr. Sudhakar K. Bharatan gave the complete demonstration of DC sputtering process, with the sputter deposition of Copper onto a Glass substrate. He was able to further elucidate on the fabrication process by telling the students how the metal contacts on MOSFETs are created. The workshop concluded with Vote of Thanks and Feedback collection from the student participants.



  
**S Sudharsanam, AP/EE**  
**Co Ordinator**

  
**Head of the Department**  
**Department of Electrical and Electronics Engineering**  
**Sri Venkateswara College of Engineering**  
**Pennalur, Sriperumbudur Taluk-602 117**  
**Tamilnadu, INDIA**

The demand draft must be sent accompanied with the registration form duly signed by the concerned authorities.

### IMPORTANT DATES

Last Date of registration: 03.03.2017

Intimation of selection : 04.03.2017

### TRANSPORTATION

The participants have to make their own arrangements for travel. No TA/DA will be provided.

### ADDRESS FOR COMMUNICATION

The Coordinator,  
EEE Department,  
Sri Venkateswara College of Engineering,  
Pennalur, NH-4,  
Sriperumbudur,  
Kanchipuram- Dist,  
Tamilnadu-602117.  
Phone: 044 27152000 254,  
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E-mail : [sudhakar@svce.ac.in](mailto:sudhakar@svce.ac.in)  
**RESOURCE PERSON**

**Dr. S. Moorthy Babu**, Professor, Crystal Growth Centre, Anna University and Director, Centre for Nano Science and Technology Anna University.

He has completed his B.Sc and M.Sc in Physics from Madras University.

He also has an M.Phil from Anna University in Chemical Physics. He completed his Doctorate in Crystal Growth: Growth, kinetics and Characterization of Compound semiconductors from Anna University. His areas of interest include Nano Engineering.

**Dr. Sudhakar K. Bharatan**, Professor, Sri Venkateswara College of Engineering

He has completed his B.E from Satyabhama Engineering College in 2000. He completed his M.S in North Carolina A and T State University in 2003, and his Doctorate in 2009 from the same university. His areas of interest include Semiconductor material synthesis and device fabrication and Structural, Optical and Electrical Characterizations Molecular Beam Epitaxy

### ORGANIZING COMMITTEE :

- Mrs.M. Sasikala AP/EE
- Mr.M.Ranjith AP/EE
- Mr.S.Anitha AP/EE
- Mrs.S.Sinthamani AP/EE

### 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 **one** day workshop on 'NANOSCIENCE AND NANO ENGINEERING' on 07.03.2017

Signature of Applicant

Signature of sponsoring authority with seal and date.



# **SRI VENKATESWARA COLLEGE**

## **OF ENGINEERING**



### **IEEE SVCE STUDENT CHAPTER**

sponsored

One day Workshop

on

**NANOSCIENCE AND NANO-ENGINEERING**

**07.03.2017**

**CONVENOR**

**Dr.KR. SANTHA**

**COORDINATORS**

**Dr.Sudhakar K. Bharatan Prof/EE**

**Mr.S.Sudharsanam AP/EE**

**Sri Venkateswara College of Engineering,  
Pennalur, Sriperumbudur.**

### **ABOUT THE COLLEGE**

Sri Venkateswara College of Engineering (Autonomous - affiliated to Anna university), 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 Kanchipuram district. The UG program offered by the Department of Electrical and Electronics Engineering is accredited by NBA for 5 years.

### **ABOUT THE WORKSHOP**

The aim of this workshop is to provide advancements of Nanoscience and Nano Engineering with state of the art technology. A demonstration of sputtering, where the particles of a solid target are ejected by bombardment of energetic particles will be

shown to the participants. In-depth explanations of Molecular Beam Epitaxy and the latest chemical methods of synthesizing Solar Cells will be provided., followed by demonstration of thin film coating by DC sputtering.

### **TOPICS TO BE COVERED**

- Chemical methods to synthesize Solar Cells
- Molecular beam epitaxy
- Thin Film Coating by DC sputtering (Demo)

### **ELIGIBILITY**

The workshop is open for Faculty members in Engineering colleges, Ph.D Research scholars, UG and PG students of any discipline.

### **REGISTRATION FEE**

Regular students/faculties - **Rs 300**

IEEE members - **Rs 150**

Admission is based on first come first-served basis. The fee includes course materials, certification and refreshments.

The registration fee must be submitted in the form of a crossed demand draft drawn in favor of 'The Principal, Sri Venkateswara

College of Engineering, payable at Sriperumbudur.