

**ABOUT THE INSTITUTE** Sri Venkateswara College of Engineering was established in the year 1985, with three academic departments. Ever since, it has grown into a premier institution by imparting knowledge and excellence through academic, research and infrastructural developments. SVCE now offers ten UG and ten PG courses in various engineering disciplines. Eleven departments are recognized as research centres for M.S. and Ph.D. programmes by Anna University, Chennai. It is actively involved in many research programmes funded by various industries and organizations, supported by well dedicated faculty, staff and student community. The campus, spread over 95 acres, is located on Chennai-Bengaluru Highway. The college is located amidst many renowned industries like Hyundai, TAFE, Nokia, Samsung, Dell and Saint-Gobain, to mention a few.

## ABOUT THE DEPARTMENT

The department of Applied Physics is an approved research centre by Anna University Chennai since 2008. With well-equipped laboratories, approved research supervisors and dedicated faculty members, the department offers the fundamental science subjects to the budding engineering students. The staff members are specialized in the fields of Materials Science, Ultrasonics, Spectroscopy, Condensed Matter Physics and Environmental Science.

## PROGRAM OBJECTIVE

The objective of this workshop is to explore and promote the basic knowledge about instrumentation techniques required for basic and advanced research. The program will be useful for researchers / industry practitioners and teaching faculty. This workshop will enrich the researchers / teaching faculty for better interpretations of experimental data by knowledge sharing and discussions.

## TOPICS COVERED

- Equipments used for synthesis of samples
- Instruments used for characterising the samples
- Instruments used to study the morphology of the samples
- Details about the software used for the interpretations of research outcomes.

Practical sessions on

- UV - Vis Spectrophotometer, Fluorimeter, Nephelometer, Thin layer chromatography
- Gas Chromatography, HPLC, TGA, DTA, AAS
- Autocollimator, Tool Maker's Microscope, Surf Tester

## RESOURCE PERSONS

The workshop has many technical sessions with presentations by experts from premier institutions.

## REGISTRATION FEE

Faculty/Research Scholars/PG students – Rs. 300/-  
Professionals from Industries/R&D – Rs.1000/-

Registration Fee is payable by Demand Draft (DD) drawn in favour of '*The Principal, Sri Venkateswara College of Engineering*', payable at Chennai, is to be sent along with the registration form to the Coordinator. The number of participants is limited. The selection will be on first cum first serve basis.

No TA/DA will be provided.



## One day National level Workshop on Instrumentation Techniques for Advanced Research

28<sup>th</sup> July 2017

CONVENOR

**Dr. A. BHASKARAN**

Professor and Head

*Organized by*

**Department of Applied Physics  
Sri Venkateswara College of Engineering  
Chennai Bengaluru Highway,  
Post Bag #1, Pennalur,  
Sriperumbudur – 602 117**

*In association with*





## REGISTRATION FORM

### One day National level Workshop on Instrumentation Techniques for Advanced Research

28<sup>th</sup> July 2017

1. Name :
2. Designation :
3. Qualification :
4. Age :
5. Experience :
6. Institution :
7. Address for Communication:

Mobile :  
E-mail :

8. Demand Draft details:

Bank:

DD No.:

DD Date:

Place:

Date: **Signature of the applicant**

**Head of the Institution**

## PARTICIPANTS

Application for participation is welcome from Faculty members, Research scholars, Professionals from Industries and R&D organizations and students from academic institutions.

## IMPORTANT DATES

Last date for Registration : **25. 07.2017**

Notification of Acceptance : **27. 07.2017**

Acceptance will be intimated through email

## VENUE

Seminar Hall,  
Dr. A. C. Muthiah Central Library,  
Sri Venkateswara College of Engineering

## ORGANISING COMMITTEE

### CHIEF PATRON

**Dr. M. Sivanandham**  
Secretary, SVEHT

### PATRON

**Dr. S. Ganesh Vaidyanathan**  
Principal/SVCE

## ADVISORY COMMITTEE

**Prof. S. Muraleedharan**  
Chief Placement Officer

**Dr. S. Ramesh Babu**  
Prof and Head - Mechanical Engg

**Dr. E. Nakkeeran**  
Prof and Head – Biotechnology

**Dr. N. Meyyappan,**  
Prof and Head – Chemical Engg

**Dr. S. Sampathkrishnan**  
Professor/APH, SVCE

**Dr. A. Anandavadivel**  
Asst. Professor /APH, SVCE

**Dr. K. Raju**  
Asst. Professor/APH, SVCE

**Dr. N.R. Sheela**  
Asst. Professor/APH, SVCE

**Ms. G. Bharathy**  
Asst. Professor/APH, SVCE

**Ms. S. Kalpana**  
Asst. Professor/APH, SVCE

**Mr. S. Gopinath**  
Associate Professor/Mech. Engg., SVCE

**Dr. S. Ilaiyavel**  
Associate Professor/Mech. Engg., SVCE

## ADDRESS FOR COMMUNICATION

### **Dr. A. BHASKARAN, Ph. D**

Professor and Head

### CONVENOR,

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SRI VENKATESWARA COLLEGE OF ENGINEERING  
*(an Autonomous institution)*  
Pennalur, Sriperumbudur 602 117

One day workshop on  
**INSTRUMENTATION TECHNIQUES *for* ADVANCED  
RESEARCH**

**Date:** 28<sup>th</sup> July 2017

**Venue :** Semiar Hall,  
Dr. A.C. Muthiah Library Building

**PROGRAM**

- 8.45 am - 9.00 am - Registration
- 9.00 am - 9.30 am - Inauguration
- 9.30 am - 10.20 am - Key note Address on, "**Role of instrumentation in Research**"  
By **Prof. M. Sivanandham**, Secretary, SVEHT, Chennai
- 10.20 am - 10.40 am - Tea
- 10.40 am - 11.30 am - Guest Lecture - 1 on, "**Transducers in Thermal systems**"  
By **Prof. M. Suresh**, Associate Prof in Mechanical Engg  
SSN College of Engineering, Kalavakkam - 603 110
- 11.40 am - 12.30 pm - Guest Lecture - 2 on, "**Ultrasonic studies of Polymeric Samples**"  
By **Prof. K. Venkataramanan**. Prof and Head,  
Department of Physics, SCSVMV University,  
Enathur, Kancheepuram - 603 110
- 12.40 am - 1.20 pm - Lunch
- 1.30 pm - 2.30 pm - **Hands on Session on Instruments for Advanced Researchwork**  
by Dept of Mechanical Engg / BioTechnology / Chemical Engg
- 2.35 pm - 2.45 pm - Tea
- 2.50 pm - 3.20 pm - Valedictory Function -  
Chief Guest : **Prof. S. Ganesh Vaidyanathan**, Principal, SVCE

**SRI VENKATESWARA COLLEGE OF ENGINEERING**  
(An Autonomous Institution, Affiliated to Anna University, Chennai-25)

Department of Applied Physics

**One day National level workshop on,  
“Instrumentation Techniques for Advanced Research”**

REPORT

29<sup>th</sup> July 2017

Department of Applied Physics planned to conduct a **One day National level workshop on, “Instrumentation Techniques for Advanced Research” on 28<sup>th</sup> July 2017**, to create an awareness about the sophisticated instruments among the staff members and research scholars. This was approved by Principal of SVCE. The communication was sent to the faculty members of various colleges and industries across the state. Forums such as M/s. Star Health Insurance Pvt Ltd, M/s. Shah Infra Tower systems Pvt Ltd, ISTE, The Choppras, iInterchange Pvt Ltd, IAPT, New Delhi opted for sponsoring this workshop. This gave a positive note to the Organizers.

On 28-7-2017, Inauguration of the Workshop started with the Welcome Address by **Capt. Dr. A. Bhaskaran, Prof and Head, Convenor**. Then the workshop was inaugurated by Our Secretary, **Prof. M. Sivanandham** and he also delivered the Keynote address on “**Role of Instrumentation in Research**”. Our Principal **Prof. S. Ganesh Vaidyanathan**, in his address, he praised the HoD and Members of the Department for organizing this workshop.

After the key-note address, an inspiring Lecture was delivered by **Prof. M. Suresh**, Asso. Prof in Mechanical Engg. SSN College of Engg about, “**Transducers in Thermal systems**”

His session was followed by another informative Lecture delivered by **Prof. K. Venkataramanan**, Prof and Head, SCSVMV University, Kancheepuram about, “**Ultrasonic instruments for Polymeric studies**”.

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In the Afternoon session, participants underwent an **Hands-on session** in Mechanical / Chemical / Biotechnology department laboratories.

At the end of this great day, the participants are enlightened with little knowledge about Instrumentation Techniques for their respective areas of Research.

In the workshop, 86 external participants from Mechanical Engg, Chemical Engg, BioTech, Physics, Chemistry, Biology discipline were participated. Most of the participants are from Coimbatore, Udumalaipet, Erode, Tirupur, Kodaikanal, Ooty, Palani, Sivakasi colleges. In addition to that, 10 participants are registered from from SVCE. Participants were highly interactive and very much appreciated the infrastructure of this great institution.

As the Convenor of this Maiden workshop by the Department of Applied Physics, I am very much thankful to the Management, Secretary and Principal for supporting me for conducting this great event successfully.



**CONVENOR**

One Day National level workshop on,  
"Instrumentation Techniques for Advanced Research"



