

NATIONAL LEVEL WORKSHOP
ON
**CMM - A Mechatronics Approach in
Metrology**

28th August 2014

Registration Form

Name:

Institution:

Designation:

Department:

Educational Qualification:

Area of Specialization:

DD No: Date:

Bank:

Address for Communication:

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Mobile No:

Email:

Any other information:

Date:

Place:

Signature of the Applicant

Objective of the Workshop

- ❖ To introduce the concepts of integrating interactions between Metrology and Mechatronics
- ❖ To have a hands-on exposure for planning the experiments and projects, for the students, on an economical CMM relevant to Metrology lab

Lecture Schedule (Venue: Central Seminar Hall)

Registration: 8.45-9.00 am

Session 1: 09.00-10.00 am

- ❖ **Title:** Coordinate metrology and its applications: Prof. G. L. Samuel, Department of Mechanical Engineering, IIT Madras

Session 2: 10.00-11.00 am

- ❖ **Title:** Low Cost Automation, Manufacturing & New Product Development : Mr. S. Viswesh (Managing Director), SVP Laser Technologies Pvt Ltd

Tea break: 11.00-11.15 am

Session 3: 11.15-12.15 pm

- ❖ **Title:** Role of Mechatronics in Intelligent Measurement, Dr. G. Satheesh Kumar, Department of Mechanical Engineering, SSN College of Engineering

Session 4: 13.00-15.00 pm

- ❖ Hands-on session on CMM : Handled by experts from SVP Laser Technologies Pvt Ltd

Valedictory: 15.00-15.30 pm

Important Information

- A registration fee of Rs. 400/- (Rupees Four Hundred only) can be paid through a demand draft drawn in favor of **The Principal, SSN College of Engineering**, payable at **Chennai** along with the registration form duly filled.
- No TA/DA will be provided.
- Last date for submission of the filled in registration form along with the Demand Draft is **19th August 2014**.
- Please communicate only to the address mentioned under "address for communication".
- Please make sufficient copies of the registration form if participants are more than one from the same organization.

SRI SIVASUBRAMANIYA NADAR COLLEGE
OF ENGINEERING
Rajiv Gandhi Salai (OMR)
Kalavakkam - 603 110. Tamil Nadu

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ON

**CMM - A Mechatronics Approach in
Metrology**

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Coordinators

Dr. G. Satheesh Kumar

Associate Professor

Mr. C. Arun Prakash

Assistant Professor



Organised by

**Department of Mechanical Engineering
SSN College of Engineering
Kalavakkam, 603110
Telefax: (044) 27469772
Website: www.ssn.edu.in**

About the Institution

Sri Sivasubramaniya Nadar College of Engineering, (SSNCE) is the outcome of the vision and initiative of **Padma Bhushan Dr. Shiv Nadar**, a pioneer in the field of Information Technology. The Institution certified by NAAC (A - Grade) and ISO 9001:2000 reflects the ideals of its founder and seeks to achieve excellence as an academic institution and advanced research centre. The institution offers eight B.E./B.Tech. degree programmes in Mechanical, Civil, EEE, ECE, CSE, IT, Chemical and Biomedical Engineering and offers M.E. degree programmes in Manufacturing, Energy, Communication Systems, Computer Science & Engineering, Power Electronics & Drives, Applied Electronics, Computer & Communication in addition to MBA and MCA. The college has implemented an E-learning with Wi-Fi facility for the benefit of its students. The institution through its dedicated management, staff and students is committed to promote research and provide quality education.

About the Department

The department of Mechanical Engineering established in the year 2007-08 offers B.E degree and M.E. (Manufacturing) and ME (Energy) degree courses with a mission to educate and train students to become globally competent. The department strengthened by its motivated faculty members is actively engaged in teaching as well as research. Research projects have been carried out under the financial support of Naval Research Board (NRB), Department of Science and Technology (DST), AICTE and the SSN Trust. A number of research projects are being carried out under the internal funding scheme. The department regularly organizes workshops, symposiums, student and staff seminars, etc. as part of its academic activities. The department feels proud on its record making achievement in campus placement for the third consecutive year with most of our students having placed in reputed core and IT companies. Companies

those offered placement to our students are Ford, Hyundai, L&T, Ashok Leyland, Honda Motors, ITC, Hyderabad Industries, Arabian Industries, Rane, Bharat Benz, Brakes India, UCAL, Sanmar, HCL, Infosys, CTS, Wipro and so on. Active research areas of our department are Friction stir welding, Fracture Mechanics, Heat transfer, Solar thermal, Vapor absorption refrigeration, Energy storage, MEMS, Nano Technology, and Robotics.

About the Workshop

Automation and Measurement are the integral parts essential for the seamless operation of any real-time system. Mechatronics, being interdisciplinary, plays a vital role in the design, development and implementation of such systems. Usage of sensors has become so common these days that one cannot create a product/innovation without the role of a sensor. The man-machine interface has reached a point where a product is not considered 'good' if it is not interactive. For this interaction to be a success, sensors play a vital role of measuring various inputs to the control system.

Attending this workshop would bring exposure to the current trends in Industrial Mechatronics highlighting the issues encountered while integrating Mechatronics into Metrology. The new Anna University regulation directs all the Institutions to include Co-ordinate Measuring Machine (CMM) into the curriculum for enabling the students to practice before entering the industries. And hence this workshop would also help to build hands-on knowledge on the new technologies related to CMM with a simple, economic CMM with details of how to plan experiments for students. All faculties handling Metrology/Mechatronics will find this workshop useful as they can incorporate the knowledge of Metrology into Mechatronics based projects for the students and the teachers.



About SVP Laser :

SVP LASER is a design and manufacturing company established in Chennai by Alumni of IITM in 2008. SVP is involved in design and manufacturing of advanced material processing CNC machines using a wide spectrum of technologies like LASER, plasma, rapid-prototyping, router etc. SVP also undertakes industrial projects and new product development in the field of robotics, industrial automation, machine vision, CAD/CAM, etc.

Their manufacturing facility is in Thirumudivakkam (near Chennai Airport) and their Design office is in Velachery, in close proximity to IITM campus. For further information visit their websites:

www.svplaser.com
www.ecncshop.com
www.autocam2d.com



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