

**Caliper Checker**



**Monochromatic Light Source**



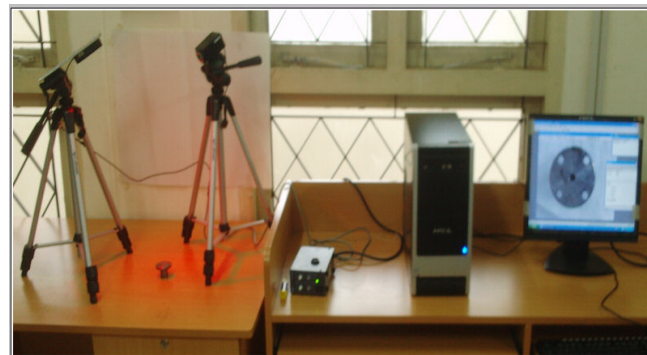
**Comparators**



**Surface Roughness Tester**



**Dial Gauge Tester**



**Machine-Vision System**

**PSGCNCE**  
Organizes  
**One-day Workshop**  
on  
**Machine Vision System**  
&  
**Metrology**

**10.11.2018**



*Conducted by*

**DEPARTMENT OF PRODUCTION ENGINEERING**  
**PSG COLLEGE OF TECHNOLOGY**  
**COIMBATORE- 641 004**

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## The College

PSG College of Technology, a premier institution for engineering education in India, started in 1951 has developed into a centre for advanced studies and research in several areas of engineering, technology, applied sciences and management. The college is autonomous since 1978 and is certificated by ISO for standards. The laboratories, workshops and library of the college are all well equipped with modern facilities and are of world class standards.

## Metrology Laboratory

The metrology laboratory in Department of Production Engineering has been set up with the aim of catering to the needs of researchers and industry. With this aim this laboratory is being upgraded every year with the state of the art equipments. This workshop is designed to update practising engineers from industry, faculty and students from engineering colleges in the latest developments in metrology.

## Machine Vision System

Today, manufacturers are using machine vision based metrology to improve their productivity and reduce costs. Machine vision integrates optical components with computerized control systems to achieve greater productivity from existing automated manufacturing equipment.

Machine vision is used for a wide variety of tasks in the automotive industry such as assembly or process verification, flaw detection, gauging, part location and robot guidance etc. Hands on training will be provided on gauging and identification of defects using machine vision system.

## Metrology

The instruments which will be used in this workshop provide a unique opportunity in learning the various

types of measuring instruments. It will facilitate the students, faculty and practising engineers to learn the practices in metrology.

## Objectives

- To create awareness among engineers on the latest development of machine vision based metrology and its applications in industries.
- To learn the standards and calibration procedure of basic instruments.
- To evaluate the measurement capabilities of gauges using R & R study.
- To demonstrate the measurement of surface texture of machined components.

## Course Coverage

### *Hands on training in*

1. Machine Vision System.
2. Calibration and uncertainty calculations of basic instruments.
3. Gauges R & R study.
4. Surface Roughness Tester.

## Registration

Filled up registration forms are to be submitted along with the DD for registration fee drawn in favour of "PSGCNCE" payable at Coimbatore.

Registration fee (per delegate):

Delegates from Industries : Rs.1,800/-  
Faculty &  
Students of Engineering Colleges\* : Rs 1,000/-  
(Inclusive of GST)

Registration fee includes course material, tea and working lunch.

\*Students have to produce a bona fide certificate.

Limited seats only. Rush for early registration.

## One-day Workshop on Machine Vision System & Metrology

**10.11.2018**

(Timings: 09.00 am – 4.00 pm)

### Registration Form

Name (s) : \_\_\_\_\_  
\_\_\_\_\_  
Designation : \_\_\_\_\_  
Organisation : \_\_\_\_\_  
Address : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Phone : \_\_\_\_\_  
(with code) \_\_\_\_\_  
Fax : \_\_\_\_\_  
E - Mail : \_\_\_\_\_

A Demand Draft\* is enclosed for Rs \_\_\_\_\_  
No \_\_\_\_\_ Dated \_\_\_\_\_

(\* Drawn in favour of "PSGCNCE" payable at **Coimbatore**)

Date: \_\_\_\_\_ Signature: \_\_\_\_\_

We are sponsoring the above delegate(s) to attend the programme.

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

Designation: \_\_\_\_\_