

ABOUT THE INSTITUTIONS

SRM Institute of Science and Technology (Formerly known as SRM University) is one of the top ranking University and most premier engineering destinations in India. It is established in 1985 by the Founder Chancellor Dr. T.R. Paarivendhar. SRM IST is functioning in four campuses located at Kattankulathur, Vadapalani and Ramapuram in Tamilnadu and a fourth campus at Modi Nagar, Ghaziabad with over 50,000 students and 3,020 faculty members, offering wide range of undergraduate, postgraduate and doctoral programs in Engineering, Management, Medicine & Health Sciences, Law and Science & Humanities.

The Institution has moved up through international alliances and collaborative initiatives to achieve global excellence. Over 150 students sponsored to 35 foreign Universities like MIT, Carnegie Mellon, UC Davis, Warwick and Western Australia. Now the Institute enjoys an unsurpassed reputation in academic and corporate circles being the preferred manpower source for vision to be recognized as a world - class learning institution. SRM IST has been categorized as grade A University by Ministry of Human Resource Development (MHRD); Government of India. SRM IST is accredited by NAAC with A⁺⁺ Grade in this year 2018.

ABOUT THE DEPARTMENT

The Department of Mechanical Engineering is one of the pioneering department of SRM IST. The present faculty strength is 137. About 500 research papers have been published in international journals and about 700 papers in international / national conferences. The department is functionally divided into three broad areas of specialization: (i) Design (ii) Manufacturing and (iii) Thermal Engineering. The National Board of Accreditation had accredited the Mechanical Engineering program in 1997. The B.Tech- Mechanical Engineering program at Kattankulathur campus is accredited by ABET, USA. The department also offers Doctoral programs in these

three areas of specializations. The salient workshops, FDP and conferences conducted by Department of Mechanical Engineering are FEM 2015, NCAME 2016, ICAME 2006 and 2018. Various Research facilities available in the department are 5 1/2 axis CNC Machines, IRB1410 ABB industrial robot, IRB360 Flex Picker Vision ABB robot, Wear and friction monitor Apparatus, thyristor controlled 64-segment program electric furnaces, 7MW He-Ne laser with spatial filter, vision system, computerized surface roughness tester, FARO portable CMM, Carl zeiss CMM, six axes spine simulator, Digital scanning calorimetry, Computerized CRDI VCR IC engine test Rig, Gas analyzer, steam power plant, Kistler Impact hammer, RPT, solar steam cooking plant and FMS system.

ABOUT FDP

Coordinate Metrology plays a vital role in measuring components/ products size and form in the manufacturing industries and OEMs. The coordinates are measured by probing the parts using modern equipment like CMM, Laser scanner, Machine Vision, Profile Projector. These machines possess its software which fits mathematical surface/element on the acquired coordinates for measurements. There are several strategies to be followed while probing the parts to reduce the error associated with it.

This faculty development programme provides a platform for young researchers/faculty members to learn the theoretical basis, latest trends/features in equipment from different Industries along with hands-on training on measuring machines like CMM, Portable CMM with laser scanner, Machine Vision, Profile Projector and Surface roughness tester.

Researchers who have the thrust to do reverse engineering, uncertainty measurements in CMM and want to analyse the roughness and form error along with its surface defects of machined surface/cast products/dental implants will be getting benefitted.

RESOURCE PERSONS

The resource persons for this course are from reputed institutes having broad expertise in the CMM, Surface Roughness and Vision system

Dr. G. RAJAMOHAN

Professor, National Institute of Foundry & Forge Technology, Ranchi

Dr. G. L. SAMUEL

Professor, Dept. of Mechanical Engineering
Indian Institute of Technology Madras, Chennai.

Dr. N. ARUNACHALAM

Professor, Dept. of Mechanical Engineering
Indian Institute of Technology Madras, Chennai.

Industry Experts from Mitutoyo South Asia India Ltd, Hexagon Metrology, FARO.

COURSE OUTLINE

Course Coverage: This FDP includes lectures from academic and industrial experts followed by hands on training on following modern equipments

- **Coordinate Measuring Machine (CMM)**
- **Portable CMM**
- **Vision System, Hexagon Metrology India Ltd**
- **Surface Roughness tester**
- **Profile Projector**



Faculty Members of Engineering Colleges, Scientists & Engineers from R&D organisations and industries are encouraged to attend this programme

Five days Faculty Development Program (FDP)

COORDINATE METROLOGY AND MEASUREMENTS

JANUARY 2 - 7, 2019

REGISTRATION FORM

Name: Mr/Ms/Mrs/Dr: _____

Academic Qualification: _____

Designation: _____

Organization: _____

Institution Address: _____

Mobile: _____

E - Mail: _____

Registration Fee Details:

Amount : _____

D.D. No.: _____

Bank Name: _____

Accommodation Requirement : YES / NO

Date: _____ Signature

Registration Fee Details

Industry Participants: Rs.2000

Faculty from Academia: Rs.1500

Research Scholars : Rs.1000

(Payment should be done only through online or DD)

Bank Details

Account Name: Mechanical Engineering Association

Account No: 459777734

Name of Bank: Indian Bank

IFSC Code: IDIB000S181

MICR No: 600019171

Important Date and links

Last date for registration: 25th December, 2018

For Registration:

<https://goo.gl/forms/IT9MzYkViyU0Gbc22>



Contact:

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SRM

INSTITUTE OF SCIENCE & TECHNOLOGY
(Deemed to be University u/s 3 of UGC Act, 1956)

Five days Faculty Development Program (FDP)

ON

COORDINATE METROLOGY AND MEASUREMENTS

(Integrated with Hands on Experience on CMM, Machine Vision, and Roughness measurement)

JANUARY 2 - 7, 2019



Convener

Dr. S. PRABHU

Professor and Head

Co-ordinators

Dr. A.Vijaya, Assistant Professor

Mr. J.Daniel Glad Stephen, Assistant Professor

Mr. S.Muralidharan, Assistant Professor

Department of Mechanical Engineering

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