

FLUID CONTROL RESEARCH INSTITUTE: PALAKKAD

ITEC Training Program (3 weeks duration) Oil, Water & Gas Flow Measurement Techniques & Standards

COURSE CONTENT:

General Orientation Program on India and its culture.

Theory Session: 55%, Laboratory Sessions/ Hands on training: 40%,

Evaluation of Projects and Standards presentations 5%.

Principles and Practice of Flow Measurement:

Fluid Flow Measurement: Principles and practices, Types of Linear & Non-linear Flowmeters such as Turbine flowmeters, Positive displacement flowmeters, Vortex flowmeters, Ultrasonic flowmeters, Coriolis Mass flowmeters, Thermal Mass flowmeters, etc.

Inline and Insertion flowmeters for conduits and closed ducts.

Special Topics in Flow Measurement:

Open-channel flow measurement methods.

Flow Measurement in hydel penstocks and large diameter pipes.

Two-phase & Multiphase flowmeters.

Sizing & Selection of Flowmeters for given applications.

Flowmeters Evaluation / Calibration of Flowmeters:

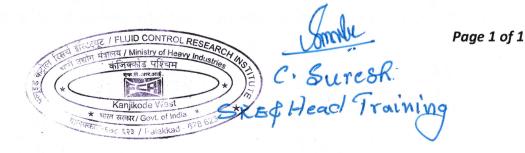
Calibration Techniques for Gas & Liquid Flowmeters: Primary and Secondary Calibration methods including Gravimetric Method, Volumetric Method, Master Meter Method, Tank provers, etc.

On-site Calibration case studies

Calibration of flowmeters in multiviscous media.

Calibration of Two-phase flowmeters.

Assessment of uncertainty and statistical analysis of accuracy in fluid flow, Traceability or measurement, maintenance aspects of flowmeters





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Profile of FCRI faculty

Sl.No.	Name	Designation	Academic/ Professional Qualification	Training attended abroad	Experience
1.	Dr. S. Ram Mohan	Director (i/c)	Ph.D (Noise Reduction in Control valves) M.Tech. (Systems &Control Engg.)	3 months at NRLM, Japan	34 years
2.	Mr.G.Sundaravadivel	Dy.Director	M.Tech.(Hydro Turbo Machines)	3 months at VKI, Belgium	35 years
3.	Dr. M. Suresh	Dy.Director.	Ph.D in Engg. M.Tech(Applied Electronics)	-	26years
4.	Dr. Sreekala.S.K	Chief Research Engineer	Ph.D in Engg. M.Tech. (Hydraulics)	-	31 years
5.	Mr. R. Mascomani	Dy.Director(Rtd) and consultant	M.Tech. (Heat transfer & Thermal power)	3 months at VKI, Belgium	35 years
6.	Mr. S. Sreenivasa Pai	Chief Research Engineer	B.E. (Mech.)	3 months at NEL, UK	31 years
7.	Mr. Muthukumar	Chief Research Engineer	B.E. (Mech.)	-	25 years
8.	Mr. K. Suresh	Chief Research Engineer	M.Tech (Mech.)	-	24 years
9.	Mr. C.B. Suresh	Chief Research Engineer	M.Tech (Mech)	-	24 years
10.	Mr. Tamil Chandran	Chief Research Engineer	ME (ENGINEERING DESIGN)	-	21 years
11.	Mr. Manikandan	Chief Research Engineer	M.Tech (Mech)	-	18 years
12.	Mr. C. Suresh	Senior Research Engineer	B.Tech. (Electr.)	-	21 years
13.	Mrs.Dhanya	Senior Research Engineer	B.Tech.(E & C)	_	12 years
14.	Mr. C.K.Gopan	Senior Research Engineer	B.Tech (Mech.Engg.)	-	12 years
15.	Mr. T.O. Sunny	Research Engineer	B.Tech. (Production)	-	27 years
16.	Mr. Jayesh. K.G	Research Engineer	B.Tech (Mech.Engg)	-	12 years
17.	Mr.Unnikrishnan P N	Research Engineer	B.Tech (Mech. Engg.)	-	12years

Page 1 of 1