

**ICT**

*stay connected & succeed*

# REGULAR COURSE IN INDUSTRIAL AUTOMATION

**IndustriConnect Technologies Pvt Ltd.**

[www.industri-connect.com](http://www.industri-connect.com)



## REGULAR COURSE

(20 sessions on week ends, Saturdays & Sundays, for 2 to 2.5 months )

# ICT

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S. No.	Contents	Estimated hours
1	<i>Concepts of Design &amp; Engineering including IOT and IIOT, Preparation/Review of typical design documents, Case studies</i>	65
2	<i>Introduction to Standards &amp; Recommended practices (ISA, IEC &amp; BS)</i>	10
3	<i>Introduction to coordination with other disciplines (Process, Mech, Electrical, civil)</i>	10
4	<i>Vendor Management-Technical &amp; commercial aspects)</i>	10
5	<i>Demonstration of commercial simulation softwares for process control &amp; introduction to SPI (softwares used in design)</i>	5
6	<i>Introduction to FAT (Factory Acceptance Test), Concepts of Completions philosophy (Site Installation, calibration, loop testing &amp; logic testing of Automation equipment), Commissioning Engineering (Multi disciplinary commissioning of plant units). Case studies</i>	25



# EXECUTIVE SUMMARY OF REGULAR COURSE

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- *This course is intended to provide a detailed working knowledge of all the phases of an automation project from concept to commissioning. Case studies of real life automation projects will be given which will involve:*
  - *Preparation of important design & engineering documentation*
  - *Standards & recommended practices to be followed*
  - *Concepts of completions philosophy ( installation, testing & commissioning of automation equipment)*
  - *Concepts of commissioning engineering (multi disciplinary commissioning of a plant / unit)*
  - *Vendor management for a typical automation system vendor*
  - *Intersectional coordination in an organization*
- *It also gives an introduction to IOT & IIOT principles as applicable to industrial automation*
- *To get a feel of an industrial application of automation, a demo software from a reputed automation vendor will also be shown*
- *Introduction to smart plant instrumentation (SPI) software which is widely used in the design and engineering phase of a project will be given.*
- *Introduction to a commercially available completions software will be given. this will be used as a planning tool during installation & testing phase of automation equipment*



## WHO CAN ATTEND REGULAR COURSE

- *This course is suitable for:*
  - *Fresh & experienced automation professionals*
  - *Professionals from other disciplines (electrical, electronics chemical, mechanical) but would like to work & pursue their career in the automation discipline*
  - *Fresh students who have passed out from colleges and intending to take up industrial automation as career*
  - *College Faculty members who would like to teach concepts of professional engineering practices to students*



## FACULTY & CORE TEAM MEMBERS

### FOUNDER & DIRECTOR



Name: Vinay Avanchi

Qualifications: B.E.(Electrical),M.E.(Control systems)

Experience: Around 38 yrs in Industrial Automation

Activities Handled:

-System design & Detailed Engineering

-Project Completions & Commissioning engineering

Employers worked with / industries:

-S.Korea:Samsung Heavy Industries ([www.samsungshi.com/eng](http://www.samsungshi.com/eng))

Offshore Oil & gas (FLNG/FPSO hull side)

-India: SAIL (Steel & Fertilizer Plants) (<http://www.sail.co.in>)

MECON Ltd.(Steel, Chemical & allied industries)([www.meconlimited.co.in](http://www.meconlimited.co.in))

Memberships : Senior member & Programme Manager-Events, International Society of Automation, Bangalore section, [www.isabangalore.org.in](http://www.isabangalore.org.in)

Fellow, IETE-Institution of Electronics & Telecommunication Engineers, Bangalore section

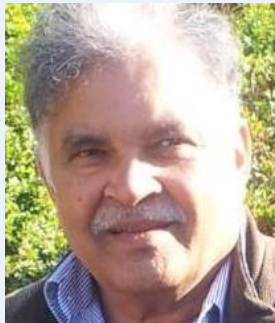
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## FACULTY & CORE TEAM MEMBERS

### Senior Technical Advisor (Automation)



Name: C,B.B. Sarma

Ex. Vice President (Automation & Electrical)

Samsung Heavy Industries, South Korea

Qualifications: MSc. Tech Instrumentation/ Diploma Micro-processors

Experience: Around 44 yrs in Industrial Automation

Activities Handled:

-System design & Detailed Engineering

-FMEA/ Functional Safety/ Onshore/Offshore/Steel Plants/Chemical Plants, Power Management Systems

Employers worked with / industries:

-S.Korea:Samsung Heavy Industries ([www.samsungshi.com/eng](http://www.samsungshi.com/eng))

Offshore Oil & gas (FLNG/FPSO hull side)

MECON Ltd.(Steel, Chemical & allied industries)([www.meconlimited.co.in](http://www.meconlimited.co.in))

Memberships : Senior member, International Society of Automation, Bangalore section, [www.isabangalore.org.in](http://www.isabangalore.org.in)

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## FACULTY & CORE TEAM MEMBERS

### MANAGER (AUTOMATION)



Name: SUJIT HARODE

Ex. Manager ( ICSS/Automation) E&I Dept. Daewoo Shipbuilding and Marine Engineering

Certified Functional Safety Engineer (TUV Rheinland,Germany)

Certified DCS Programmer (FOXBORO, Invensys)

Qualifications: BE. Instrumentation & Controls (Automation)

Experience: Around 13 yrs in Industrial Automation

Activities Handled:

- Control System design & Detailed Engineering
- Project Completions & Commissioning engineering
- Safety Requirement Specification (SIL/SIS)
- DCS/PLC/Intools- Onshore/Offshore/Refinery/Petrochemical Plant

Employers worked with / industries:

- South Korea : Daewoo Shipbuilding & Marine Eng./ Samsung Heavy Ind. Ltd. /Hyundai Heavy Ind. Ltd
- Invensys(Shneider electricals)- India

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**THANK YOU**

