

**ICT**

*stay connected & succeed*

# SHORT COURSE IN INDUSTRIAL AUTOMATION

**IndustriConnect Technologies Pvt Ltd.**

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



## SHORT COURSE

(5 days part time, Monday to Friday, 6 pm to 8.30 pm )

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| S. No. | Contents  | Estimated hours |
|--------|---|-----------------|
| 1      | <i>Interpreting and understanding major design &amp; engineering documents (P&amp;ID, I/O list, Loop diagrams, Logic diagrams, data sheets)</i>   | 5               |
| 2      | <i>Brief introduction to ISA Standards &amp; coordination with other disciplines (Process, Mech, Electrical, civil), IOT &amp; IIOT CONCEPTS</i>  | 2.5             |
| 3      | <i>Technical documentation preparation for procurement of Automation equipment</i>  | 1.5             |
| 4      | <i>Demonstration of commercial simulation softwares for process control</i>   | 1               |
| 5      | <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).</i> | 2.5             |



## EXECUTIVE SUMMARY OF SHORT COURSE

- *This course is intended to provide a brief working knowledge of all the phases of an automation project from concept to commissioning.*
- *It describes*
  - *Interpretation of design & engineering documentation involved*
  - *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*
  - *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*



## WHO CAN ATTEND SHORT COURSE

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- *This course is suitable for:*
  - *Students intending to pursue automation as their career and also those who intend to take up industrial automation project in their final year of college as part of their curriculum*
  - *Fresh automation professionals in industry*
  - *Industry professionals from other disciplines (chemical, mechanical, electrical and electronics disciplines) who would like to understand the application of industrial automation in their respective disciplines.*
  - *College faculty members*



## 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)

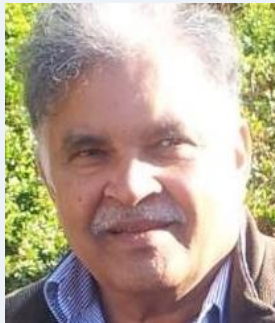
Fellow, IETE-Institution of Electronics & Telecommunication Engineers, Bangalore section

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## FACULTY &amp; 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**

