

**ICT**

*stay connected & succeed*

# CRASH COURSE IN INDUSTRIAL AUTOMATION

**IndustriConnect Technologies Pvt Ltd.**

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



# CRASH COURSE

(1 day, on Saturdays OR Sundays, 10.00 a.m. to 4.00 p.m. with 1 hour lunch)

# ICT

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S. No	Contents	Estimated hours
1	<i>Introduction to industrial Automation</i>	1
2	<i>Interpreting and understanding major design &amp; engineering documents (P&amp;ID, System configuration diagram, I/O list, Loop diagrams, Logic diagrams, data sheets)</i>	2
3	<i>Brief introduction to ISA Standards &amp; coordination with other disciplines (Process, Mech, Electrical, civil)</i>	0.5
4	<i>Introduction to IOT (Internet of things) &amp; IIOT (Industrial internet of things)</i>	0.5
5	<i>Demonstration of commercial simulation softwares for process control</i>	0.5
6	<i>Introduction to FAT, Site Installation, calibration, loop testing &amp; logic testing of Automation equipment</i>	0.5



## EXECUTIVE SUMMARY OF CRASH COURSE



- *This course is meant for anyone new to industrial automation field but willing to get an overview of various activities that are involved in executing an automation project.*
- *Typically, it introduces all the phases of an automation project from concept to commissioning.*
- *It describes*
  - *Introduction to field instrumentation equipment & Control systems*
  - *Design & engineering documentation involved*
  - *Standards & recommended practices to be followed*
  - *Installation, testing & commissioning of automation equipment*
- *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 CRASH COURSE

*Anyone interested in getting a quick overview of Industrial Automation discipline, typically:*

- *Engineering college students*
- *Fresh automation professionals*
- *Senior management professionals*
- *Industry Professionals from other disciplines (Electrical, Electronics, Chemical & Mechanical & Metallurgical)*
- *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

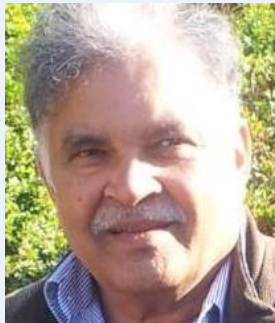
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## FACULTY & CORE TEAM MEMBERS

### 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**

