

# Variable Speed Drives : Installation, Functionality and Applications (IAS - VSDIFA)

Industry Guest Lecture Series Organized by the RMIT IAS  
Student Branch Chapter

**Location:**  
RMIT City Campus  
Building 12 - Level 7 -Hall 002



## Topics Covered:

**Session #1: 25th Sep 2019 at 3pm - 5pm**

- Motor Control Centres & Maximum demand power considerations
- Methods of motor starting - Star-Delta Starter versus Soft Starter
- Overload protection in Multi-motor VFD application
- Application of Drives in Common Bus Configurations

**Session #2: 2nd Oct 2019 at 3pm - 5pm**

- Installation considerations / guidelines for PWM AC Drives
- Safety Functions for Drives application
- Motor Control System Architecture with Network communications to Drives
- Centrifugal VFD Pump application with energy savings considerations

**Session #3: 9th Oct 2019 at 3pm - 5pm**

- Industrial application of conveyor with sizing considerations of motor
- Overview of Fuzzy Logic Control application for Lime Kiln process in Cement Industry
- Overview of Quality Control System with Drive application in Paper Industry

## About the Presenter:

**Shanmugapathar Muruganandan (Muru)**

Muru is currently with Beckwell Automation in Melbourne and has more than 25 years of experience in Variable Speed Drives and Industrial Automation. Muru was involved with project management execution and lead application engineering support. Previously Muru was a Senior Engineer at Schneider Electric and Synertec corporation in Melbourne, where he was involved with project management support for Oil & Gas (onshore & Offshore platform), Chemical, Power Utility, Wind Farm Renewable Energy and Functional Safety process automation projects.

As Synertec corporation, Muru was involved with automation application software commissioning activities at CSL and undertook existing ABB MOD 300 DCS upgrade to Siemens PCS 7 System design and planning works at CSL Broadmeadows.

Muru has also been an engineer at Merck Sharp & Dohme in Singapore, he was involved with implementation and commissioning the ABB MOD300 DCS, ABB Advant IMS, ABB Batch300, Siemens PLC and Building Automation system for control of the pharmaceutical manufacturing processes.

## For Further Information Contact:

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