Data Acquisition software development for Fast Integrator

Abstract

Background: Fast Integrator based data acquisition system used for estimation of the temperature and density profile in Thomson Scattering Diagnostic. Instrumentation control and data acquisition program synchronize fast integrator DAQ module with the central supervision system in ADITYA and SST-1 Tokamak. Graphical User Interface (GUI) configure fast integrator module according to different requirement condition according to Tokamak Plasma.

Summary of Project Work: The student has to develop software program for fast integrator data acquisition module. The program will be developed from C# API provided by module supplier. The developed program will be use for simultaneous gate configuration and fast integrator data acquisition used for Thomson Scattering Diagnostic. The instrumentation and control program also synchronize fast integrator module with central supervision system of ADITYA and SST-1 Tokamak.

Relevant references [Publications, web links etc.]:

Eligibility: Only students of M.E. /M. Tech Electronics /Electronics and Communication / Computer Engineering/ Instrumentation and Control / M.Sc. Computer Science **branches can submit their application at following email addresses**

Project Guide e-mail address: kkpatel@ipr.res.in, jinto@ipr.res.in & hem@ipr.res.in

and

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