

2 Days Workshop On MATUINO

MATLAB INTERFACING WITH ARDUINO

(Intermediate/Advance Level)

on

03-01-2018 & 04-01-2018

REGISTRATION DETAILS :

- Registration fee :Rs.600/-per participant
- The participants are requested to register for the workshop on or before 29th December 2017.
- Due to limited number of seats the selection of participants will be based on first come first serve basis only.

WORKSHOP COORDINATORS :

Dr. K. Rahimunnisa Prof. & Head

Ms. R. Hema Assistant Prof.

Ms. N. VidhyaLakshmi Assistant Prof.

For Queries Contact:

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Objective of Workshops

Interfacing ARDUINO with MATLAB Environment and controlling the Arduino using MATLAB GUI.

Content

DAY 1

SESSION 1

- Introduction to MATLAB
- Installing evaluation version of MATLAB
- MATLAB basics
- Working with MATLAB Environment
- Navigating MATLAB
- Troubleshooting and Debugging Vis
- Developing Modular Applications

SESSION 2

- Introduction to Arduino
- Expanding Your Arduino
- Meet the Arduino Family
- Hardware description of Arduino
- Exploring the Arduino Board and the IDE
- Working with Functions
- Numbers, Variables, and Arithmetic
- LED Blinking, Sensor, actuators
- Reading Analog and Digital inputs

DAY 2

SESSION 1

- INTERFACING MATLAB WITH ARDUINO
- Install the drivers
- Interfacing with Arduino
- How to Communicate
- Software Serial Library
- MATLAB support package for Arduino

SESSION 2

PROJECT WORK

- Serial communication between MATLAB and Arduino
- Control sensor, actuator by design GUI in MATLAB
- Images processing with Arduino
- Real-time filtering of noise out of sensor data
- 2D & 3D Animation



EASWARI ENGINEERING COLLEGE



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