E.G.S. PILLAY ENGINEERING COLLEGE

(AUTONOMOUS)

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai

(Accredited by NAAC with 'A++' Grade and NBA

NAGAPATTINAM, TAMILNADU – 611002

IEEE POWER ELECTRONICS SOCIETY
Powering a Sustainable Future

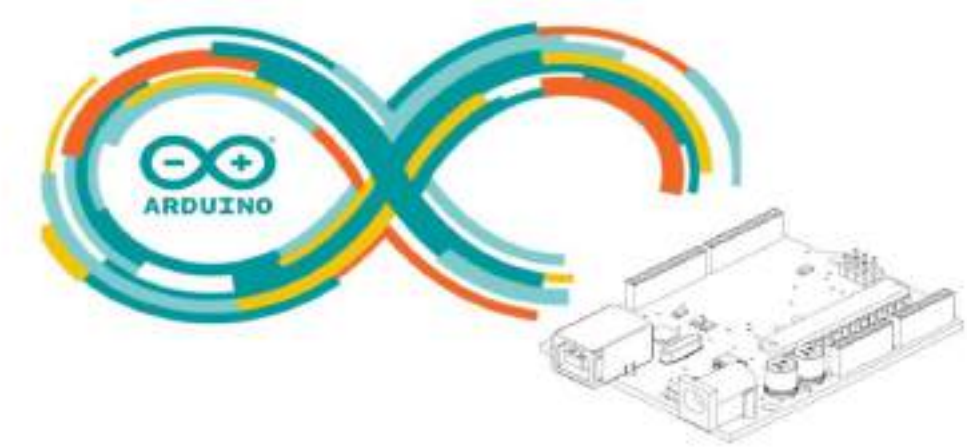
Department of Electrical and Electronics Engineering

and

EGSPEC - IEEE students Branch (PELS)

Jointly Organize

Hands on Training on Arduino Programming



Resource Person

Mr.R.Raman, M.E

Project Associate,

E.G.S.P.EC, Nagapattinam.

25.03.2025 **Project Lab** **9.30 AM**

Coordinators

Mr.K.Gokulraj, AP / EEE

Mr. V.Yokeswaran, AP / EEE

Report on Report on Hands-on Training Program on Arduino Programming

Date: 27.03.2025

On March 25, 2025, a hands-on training session on Arduino Programming was conducted at the Project Lab for 35 students. The program began at 9:30 AM with formal inaugural function. The session was led by R. Ramanan, Project Associate, who provided in-depth guidance on using Arduino for various electronic projects.

The program followed a task-based approach consisting of three rounds. Students worked with various sensors such as Gas Sensors, Temperature Sensors, and IR Sensors to create functional systems. These sensors were used to program the Arduino boards to detect and respond to changes in the environment, enabling the students to understand the practical applications of sensor integration in embedded systems.

Gas Sensor: Used for detecting gases and programming the Arduino to respond to specific gas concentrations.

Temperature Sensor: Applied to measure temperature and interface with the Arduino to create responsive systems.

IR Sensor: Used to detect infrared light for applications like motion detection or remote control systems.

At the end of each round, students who successfully completed their tasks were awarded medals as recognition for their hard work and dedication. The first three batches to complete their tasks were especially rewarded, fostering a competitive spirit among the participants.

The event was coordinated by Mr. K. Gokulraj and Mr. V. Yokeshwarn, Assistant Professors from the Department of Electrical and Electronics Engineering (EEE). Dr. P. J. Sureshbabu, Head of the Department of EEE, and Dr. M. Malathi, Head of the Department of Electronics and Communication Engineering (ECE), also facilitated the event and presented the rewards to the students.

The hands-on training session successfully enhanced the students' practical skills in Arduino programming, sensor integration, and embedded system design. The session concluded at 4:00 PM, leaving the students with valuable experience and insights into real-world applications of Arduino-based systems.

Aswini G (Student Coordinator)
II / IV / EEE

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Department of Electrical and Electronics Engineering

HANDS-ON TRAINING SESSION ON ARDUINO PROGRAMMING

AIM OF THE PROGRAM:

The aim of the hands-on Arduino Programming session is to give students practical experience in using Arduino for electronic projects. It helps them understand microcontroller programming and how to apply it in real-world situations, enhancing their skills in designing embedded systems for future engineering projects.

VISION OF THE PROGRAM:

The vision is to equip students with the skills to work with Arduino, encouraging innovation in electronics. Through hands-on learning, students will be inspired to solve real-world engineering problems, boosting creativity and technical skills.

MISSION OF THE PROGRAM:

The mission is to offer hands-on training in Arduino Programming to students, helping them gain expertise in utilizing Arduino to build various projects and solutions. The program aims to equip students with the technical skills required for embedded system development, preparing them for careers in electronics and electrical engineering.

EVENT DETAILS:

A hands-on training session on Arduino Programming is scheduled to take place on March 25, 2025, at the Project Lab. This session will be attended by 35 students, who will have the opportunity to learn and work with Arduino boards, gaining practical insights into embedded system design and programming.

STAFF & STUDENT COORDINATORS:

Staff Coordinator	Mr.K.Gokulraj Mr.V.Yokeshwarn	Assistant Professor / EEE Assistant Professor/EEE
Student Coordinator	Aswini G	II Year
	Govindharayar K	II Year

I). OBJECTIVES:

Objectives:	
1	Understand the basics of Arduino programming and its applications.
2	Gain knowledge on how to build and implement Arduino-based projects.

II) ACTIVITY OUTCOMES:

Outcomes: At the end of the Arduino programming training, students should be able to:	
AO1	Understand the components and functions of an Arduino board.
AO2	Learn how to design and program basic Arduino-based projects.
AO3	Apply the knowledge of Arduino programming to create real-world embedded systems.

III) AOs Vs POs MATRIX:

	PO 01	**PO 02**	**PO 03**	**PO 04**	**PO 05**	**PO 06**	**PO 07**	**PO 08**	**PO 09**	**PO 10**	**PO 11**	**PO 12**
AO1	3	2	-	-	3	-	-	-	-	-	-	2
AO2	1	-	3	2	5	-	-	-	-	-	-	2
AO3	2	-	2	-	3	1	1	1	-	-	-	2

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Hands-on Training Program on Arduino Programming

Glimpses of the Event


GPS Map Camera
Thethi, Tamil Nadu, India
Rr3m+h9x, Thethi, Tamil Nadu 611001, India
Lat 10.803779° Long 79.833311°
25/03/2025 11:46 AM GMT +05:30
Google


GPS Map Camera
Thethi, Tamil Nadu, India
RR3M+9Q7, Thethi, Nagapattinam, Tamil Nadu 611001, India
Lat 10.80373°
Long 79.83471°
25/03/25 03:49 PM GMT +05:30
Google