

KARNATAK SCIENCE COLLEGE, DHARWAD
(Constituent Science College of Karnatak University, Dharwad)
Department of PHYSICS

Activity Report

General Information

Type of Activity	Workshop
Title of the Activity	One Day Workshop on Arduino Development Ecosystem
Date/s	29-03-2025
Time	11am-5.30pm
Venue	P2 Hall and Electronics Laboratory
Collaboration/Sponsor (if any)	No

Speaker/Guest/Presenter Details

Name	Shri. Ravi Linganagoudar
Title/Position	Previously working as Teaching Assistant at Department of Physics, Karnatak University, Dharwad
Organization	----
Title of Presentation	Arduino Development Ecosystem

(Add/repeat above rows if there is more than 1 Speaker)

Participants profile

Type of Participants	B.Sc. Students
No. of Participants	23

Synopsis of the Activity (Description)

Highlights of the Activity	1. Arduino hardware and the software development environment 2. Applications of Arduino development ecosystem 3. Design of hardware using Arduino Uno board - Design of software according to the requirement specifications 4. Design phases of fertilizer dispenser system
Key Takeaways	1. Application of Arduino board for specific purpose 2. Application of fertilizer dispenser system in modern agriculture using Arduino Uno ATMEG328 microcontroller

Summary of the Activity	One day workshop on Arduino development ecosystem was conducted for B.Sc. students with Physics combination. Students learnt the working principle of arduino, different types Arduino systems, design of Arduino board for specific application.
Follow-up plan, if any	For any queries on arduino, students are informed to contact the resource person through the chairperson of the Einstein study circle.

Rapporteur

Name of the Rapporteur	Dr. Nirupama J.M.
Email and Contact No	nirupamajm@gmail.com

Annexures:

- 1. Poster of the Activity (or Invitation Letter/ Invitation Card)**
- 2. Schedule of the event (Agenda)**
- 3. Activity Report in the template sent here**
- 4. Photos of the activity (not more than five), including at least two geo-tagged photos**
- 5. Speaker Profile (bio-data/C.V.)**
- 6. Attendance list of participants**
- 7. Feedback Analysis**

Karnatak University's
Karnatak Science College, Dharwad
DEPARTMENT OF PHYSICS
Einstein Study Circle Activity
One Day Workshop on "Arduino Development Ecosystem"

Day 29-03-2025		
Time	Event	
10.30 am-11am	Inauguration	• Prof. M.S. Salunke, Principal, Karnatak Science College, Dharwad • Prof. Blaise Lobo, H.O.D., Dept. of Physics, K.S.C.D • Dr. Nirupama J.M., Einstein Study Circle Chairperson • Dr. Geeta N. Chavan, Electronics Coordinator
		Resource Person
11 am-12 noon	Lecture- 1: Design Phases of Solar Dryer	Shri. Ravi Lingagoudar
12- 1.30 pm	Technical Session-1 Hands-on training on Arduino	Shri. Ravi Lingagoudar
1.30 pm-2 pm	Lunch Break	
2 pm-3 pm	Lecture- 2 Design Phases of Fertilizer Dispenser System	Shri. Ravi Lingagoudar
3 pm -5 pm	Technical Session-2 Hands-on training on Arduino	Shri. Ravi Lingagoudar
5 pm-5.30 pm	Valedictory	

Venue: P2 Hall & Electronics Laboratory

Miss Pragati Jarli
Student Secretary
Einstein Study Circle
Dr. Nirupama J.M.
Chairperson
Einstein Study Circle
Department of Physics

Date: 29-03-2025

Mr. Bharath S. Palled
Student Secretary
Einstein Study Circle
Prof. Blaise Lobo
H.O.D.
Department of Physics
Karnatak Science College, Dharwad





