

BROCHURE OF THE EVENT

All Saints' College

Thiruvananthapuram

(Re- Accredited by NAAC with A+ Grade)

WORKSHOP ON

ENERGY EFFICIENT BLDC FANS

organised by

Urja Club

Department of Physics

&

Womens' Study Unit

IN ASSOCIATION WITH

Panka Fans

On 27.02.2025

(Thursday) @ 10 am

Venue : Physics Lab



The goal of this energy conservation program is to increase campus energy efficiency and reduce energy consumption in a realistic and comprehensive manner using strategies that support a campus community that is safe, secure, and environmentally conscious.

The student community benefits from this entrepreneurship program by developing a wide range of skills, such as leadership, problem-solving, critical thinking, and freelance revenue.

The technical session include

- An awareness session on BLDC fans
- Hands-on training -BLDC fan Assembling
- Conversion of Normal fan to BLDC fan



Resource Persons



Safal M Shafi
CMD
Panka Fans



Thoyiba S
CTO
Panka Fans

Maximum Strength : 40

(on first come first serve basis)

Manager & Patron

Rev. Mother Molly Attully

Principal

Prof. (Dr.) Reshmi R Prasad

Course Coordinator

Dr. Anjana P S (HoD, Physics)

Dr. Veena Suresh Babu

Organizing Committee

Ms. Dhanya Jose

Dr. Aiswarya R

Ms. Gopika M S

Dr. Dhanya Chandran

Dr. Devi Chandra R

Ms. Aparna P



ALL SAINTS' COLLEGE THIRUVANANTHAPURAM

(Affiliated to University of Kerala)

- | | | |
|---|-----------------------------------|---|
| 1 | Title of the program | Workshop on Energy Efficient BLDC Fans |
| 2 | Name of the Coordinator/s | Dr. Anjana P.S. and Dr. Veena Suresh Babu |
| 3 | Organizing Department/Cell | Department of Physics, Urja Club and Womens' Study Unit |
| 4 | Date & Duration | 27.02.2025, 3 hours |
| 5 | Number of participants | 48 Students |
| 6 | Resource Person/s | Safal M Shafi (CMD, Panka Fans) & Thoyiba S (CTO, Panka Fans) |
- 7 **Objective of the Program**
To educate the student community on the principles of **energy conservation** and **sustainable technology** by providing hands-on training on assembling and converting to **BLDC fans**, thereby promoting **entrepreneurship** and developing skills such as leadership, problem-solving, and critical thinking.
- 8 **Detailed description of the event**
The Workshop on Energy Efficient BLDC Fans was successfully conducted on **February 27, 2025**, at the **Physics Lab**, All Saints' College, Thiruvananthapuram, in association with **Panka Fans**. The program commenced with an inaugural address, followed by the technical session led by the Resource Persons from Panka Fans. The technical session was highly interactive and comprised two main components:
- 1. Awareness Session and Hands-on BLDC Fan Assembling**
 - **Safal M Shafi (CMD)** and **Thoyiba S (CTO)** provided a detailed awareness session highlighting the **energy efficiency** and **environmental benefits** of BLDC (Brushless Direct Current) technology over conventional AC induction motor fans.
 - Participants were given **hands-on training** in the **assembling of BLDC fans**, which provided them with a practical understanding of the components and motor functioning.
 - 2. Conversion of Normal Fan to BLDC Fan**
 - A dedicated session focused on the practical skill of **converting a normal ceiling fan to a BLDC fan**. This module emphasized the entrepreneurial aspect, demonstrating how existing infrastructure can be upgraded to achieve significant energy savings.
 - The Resource Persons were interactive, encouraging participants to **ask questions** and seek clarifications on the technology, safety protocols, and the scope for **freelance revenue** generation through such services.
- The workshop's atmosphere was enthusiastic, effectively achieving the goal of making the student community environmentally conscious and equipping them with a valuable, marketable skill.
- 9 **Outcome of the event/Evaluation by Program Coordinator**
The workshop successfully achieved its objective of promoting **energy conservation** and **entrepreneurship** among the students.

Participants acquired:

- A clear understanding of the **superiority and mechanism of BLDC fan technology**.
- The **practical skills** required for **assembling BLDC fans** and, more importantly, the technical know-how to **convert conventional fans to BLDC fans**.
- An insight into how this skill set can be leveraged into an **entrepreneurial opportunity**, fostering leadership, problem-solving, and critical thinking.

10	Brochure of the event	Attached
11	List of participants	Attached

Photos



List of Participants

SL.NO	NAME	CLASS	SL.NO	NAME	CLASS
1	ABHI. J	BSc III Year	26	HARIPRIYA H	MSc I year
2	ARATHY ASOKAN .G.A	BSc III Year	27	JEFFY JOY`	MSc I year
3	BISMI.S	BSc III Year	28	JIMA JOHN	MSc I year
4	DEVI DINESH	BSc III Year	29	MEGHA MADHUSOODANAN	MSc I year
5	FATHIMA BEEVI.S	BSc III Year	30	NANDANA S S	MSc I year
6	GAYATHRI.S.K	BSc III Year	31	RENI V A	MSc I year
7	ROULLAHMOL.N.S	BSc III Year	32	VARSHA GRACIOUS	MSc I year
8	SREELEKHA.A.L	BSc III Year	33	ADITHYA SANTHOSH	MSc II year
9	AJEESHA.S.S	BSc III Year	34	AKHILADRAVID	MSc II year
10	AMRITHA.SAJU	BSc III Year	35	ANCY ANTONY	MSc II year
11	AMRITHA.V.A	BSc III Year	36	ANN MARY	MSc II year
12	ANAKHA JOY	BSc III Year	37	ANNIE M	MSc II year
13	JENNIFER THADEUS	BSc III Year	38	ARATHY V S	MSc II year
14	MEENU KRISHNA	BSc III Year	39	ARYA J M	MSc II year
15	MEENU KUTTY S S	BSc III Year	40	FRANCINA C FERNANDEZ	MSc II year
16	ROSHNI. A	BSc III Year	41	ISMATH SULTHANA S	MSc II year
17	SRUTHI.S	BSc III Year	42	KAVYASREE M S	MSc II year
18	ALFA.N.A	BSc III Year	43	KEERTHY S A	MSc II year
19	JEEVITHA ANNA GEORGY	BSc III Year	44	LEKSHMI R MOHAN	MSc II year
20	JENIFAR.P	BSc III Year	45	MALAVIKA S	MSc II year
21	ANJANA S	MSc I year	46	NIRUPAMA.B.GONSALVEZ	MSc II year
22	APARNA A B	MSc I year	47	SHAMNA S M	MSc II year
23	ARDRA J AJITH	MSc I year	48	THERESA MATHEW	MSc II year
24	DHANYA JOSE	MSc I year			
25	GOURI SURESH	MSc I year			



POSTGRADUATE DEPARTMENT OF PHYSICS

ALL SAINTS' COLLEGE

THIRUVANANTHAPURAM

**Re-accredited by NAAC with 'A+' grade
(Affiliated to University of Kerala)**

CERTIFICATE

This is to certify that **Ms. DEVI DINESH , BSc III Year Student** has participated in the One Day Workshop on “Energy Efficient BLDC Fans” organized by the Postgraduate Department of Physics, All Saints’ College, Thiruvananthapuram in association with Panka Fans on 27.02.2025.

Dr. Anjana P.S.
Coordinator & HOD,
Department of Physics



POSTGRADUATE DEPARTMENT OF PHYSICS

ALL SAINTS' COLLEGE

THIRUVANANTHAPURAM

**Re-accredited by NAAC with 'A+' grade
(Affiliated to University of Kerala)**

CERTIFICATE

This is to certify that **Ms. AMRITHA.SAJU**, **BSc III Year Student** has participated in the One Day Workshop on “Energy Efficient BLDC Fans” organized by the Postgraduate Department of Physics, All Saints’ College, Thiruvananthapuram in association with Panka Fans on 27.02.2025.

Dr. Anjana P.S.
Coordinator & HOD,
Department of Physics



POSTGRADUATE DEPARTMENT OF PHYSICS

ALL SAINTS' COLLEGE

THIRUVANANTHAPURAM

Re-accredited by NAAC with 'A+' grade

(Affiliated to University of Kerala)

CERTIFICATE

This is to certify that **Ms. HARIPRIYA H , MSc I Year Student** has participated in the One Day Workshop on “Energy Efficient BLDC Fans” organized by the Postgraduate Department of Physics, All Saints’ College, Thiruvananthapuram in association with Panka Fans on 27.02.2025.

Dr. Anjana P.S.
Coordinator & HOD,
Department of Physics



POSTGRADUATE DEPARTMENT OF PHYSICS

ALL SAINTS' COLLEGE

THIRUVANANTHAPURAM

Re-accredited by NAAC with 'A+' grade

(Affiliated to University of Kerala)

CERTIFICATE

This is to certify that **Ms. KEERTHY S A, MSc II Year Student** has participated in the One Day Workshop on “Energy Efficient BLDC Fans” organized by the Postgraduate Department of Physics, All Saints’ College, Thiruvananthapuram in association with Panka Fans on 27.02.2025.

Dr. Anjana P.S.
Coordinator & HOD,
Department of Physics