

**NANJIL CATHOLIC COLLEGE OF ARTS AND SCIENCE**

**KALIYAKKAVILAI**

**DEPARTMENT OF PHYSICS**

**HANDS ON TRAINING IN BASIC ELECTRICAL AND ELECTRONICS  
APPLICATIONS**

**REPORT (2021-2022)**

The Department of Physics conducted a hands on training course for the students in the academic year 2021-2022. Totally 22 students from physics department were registered for this course. This training course was handled by Mr.F.Sahaya Raj, Assistant professor of physics department. This course was conducted every Thursday after 2 pm at the room number 12. In this course, students were trained to troubleshoot and repair some of the basic electrical and electronic devices. Household wiring, Installation and maintenance of electrical appliances, tricks to troubleshoot and repair them were taught using some simple devices such as multimeter, etc. Students also trained to construct DC regulated power supply. They also trained to solder components in circuit boards. It has totally 11 sessions and the students try them with much interest. Fees of Rs.500 were collected from each student and certificates were given to the students after the successful completion of the course.



Head

Department of Physics,  
Nanjil Catholic College of Arts & Science  
Kaliyakkavilai - 629 153, Tamil Nadu

## Hands on Training in Basic Electrical and Electronic Applications

### Objective

To make students to understand some basic Electrical and Electronic applications, commonly used in houses. Also, training them to troubleshoot problems and making some simple and useful applications.

### Syllabus

Basics of AC voltage and Current - Basics of Household wiring - Switches and circuit breakers – Making simple switch boards and connecting Bulb holder, socket and Loads.

Ceiling Fan Installation – changing capacitor in ceiling fan- Table fan, mixer Grinder, LED bulbs and LED tube light Troubleshooting.

Soldering- Multimeter- Breadboard and printed circuit boards– Resistor and Capacitor coding and types-Troubleshooting Resistor, capacitor, diodes, Transistor, Transformer in Electrical circuits.

Introduction to IC and understanding Datasheets – Construction of some simple circuits using ICs like Regulated power supply, Audio Amplifier, etc.

### Outcome:

At the end of the course, students are expected to construct some simple circuits, able to make switch board extensions and basic wirings, Troubleshooting and servicing some household appliances by themselves.

Duration of course: One semester

Course fee: Rs.500

Day: Thursday

Time: 2-3 pm.

Total hours: 20 hours.

Venue: Room Number 12



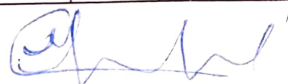
A handwritten signature in blue ink.

Head

Department of Physics,  
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Kaliyakkavilai - 629 153, Tamil Nadu

## Attendance sheet for Hands on Training Course in Basic Electrical and Electronics Applications

Sl. No	Name of the Student	Class	17/03/22	24/03/22	31/03/22	07/04/22	14/04/22								
1.	Akhila U	Ash	Ash	Ash	AS	Ash	Ash								
2.	Anan Farhana B	Ash	Ash	Ash	AS		Ash								
3.	Anchu R	Anchur	Anchur	Anchur	AS	Anchur	Anchur								
4.	Anisha Kumari A	Anisha	Anisha	Anisha	AS	Anisha	Anisha								
5.	Aravind S R	Au	Au	Au	Au	Au	Au								
6.	Ashna K Raj	Ashna	Ashna	Ashna	AS	Ashna	Ashna								
7.	Asna Thasni S	Ashna	Ashna	Ashna	AS	Ashna	Ashna								
8.	Asvitha N	N. Asvitha	N. Asvitha	N. Asvitha	AS	N. Asvitha	N. Asvitha								
9.	Berjin Jibi K L	Berjin	Berjin	Berjin	AS	Berjin	Berjin								
10.	Bibinsha G S Stephen	Bibinsha	Bibinsha	Bibinsha	AS	AS	AS								
11.	Blessy S S	Blessy	Blessy	Blessy	Blessy	Blessy	Blessy								
12.	Divya	Divya	Divya	Divya	Divya	Divya	Divya								
13.	Gopika L S	Gopika	Gopika	Gopika	Gopika	Gopika	Gopika								
14.	Haleema S	S. Haleema	S. Haleema	S. Haleema	AS	S. Haleema	S. Haleema								
15.	Jency Paul B	AS	AS	Jency	AS	Jency	Jency								
16.	Jenish	AS	AS	Jenish	Jenish	Jenish	AS								
17.	Jibin	AS	AS	Jibin	AS	AS	AS								
18.	Mano Ranjith V	Mano	Mano	Mano	Mano	Mano	Mano								
19.	Manoj Pramila P	Prat	Prat	Prat	Prat	Prat	Prat								
20.	Neela Shree	Neela	Neela	Neela	AS	Neela	Neela								
21.	Preetha	P. Preetha	P. Preetha	P. Preetha	AS	P. Preetha	AS								
22.	Renuka R	R. Renuka	R. Renuka	R. Renuka	AS	R. Renuka	R. Renuka								
23.	Sanila E	E. Sanila	E. Sanila	E. Sanila	AS	E. Sanila	E. Sanila								
24.	Santhiya D	Jibin	Jibin	Jibin	AS	Jibin	Jibin								
25.	Sruveena	Sruveena	Sruveena	Sruveena	Sruveena	Sruveena	Sruveena								
26.	Vijaya lekshmi G	Vijaya	AS	AS	AS	AS	AS								



DR. P. S. PRADHAN

Dept of Research & Research Centre  
Nanjai Catholic College of Arts & Science  
Kaliyakkavilai - 629 153

9

Course Instructor.  
(Mr. F. Sahaya Raj)

Timestamp	Email address	Name	Class	Name of the Institute	Feedback about Suggestions	Mobile Number
13/09/2022 14:43:41	aravindsooraj010.as@gmail.com	Aravind S R	1st M.Sc Physics	Nanjil Catholic College of Arts and Science	excellent	9809147507
13/09/2022 14:53:46	binshagass@gmail.com	Bibinsha G S Stephen	M.sc physics	Nanjil catholic college of arts and science kaliyakkavilai	excellent	9488716064
13/09/2022 14:54:47	sruveenaraveendran@gmail.com	Sruveena.R.V	Physics	Nanjil catholic college arts and science kaliyakkavilai	good	8668132620
13/09/2022 16:22:04	gopulechu184@gmail.com	gopika	3rd bsc physics	Nanjil catholic college of arts and science	excellent	9895047226
13/09/2022 16:27:15	jibiberjin6@gmail.com	K.L.Berjin Jibi	3 bsc physics	Nanjil catholic College of arts and science	excellent	7708613352
13/09/2022 16:38:39	pasaepk@gmail.com	S. Haleema	3rd BSc. Physics	Nanjil Catholic College of Arts and Science	good	9095053231
13/09/2022 17:18:39	ashnakraj03@gmail.com	Ashna K Raj	3rd BSc. Physics.	Nanjil Catholic College of Arts and Science Kaliyakkavilai	excellent	8870965279
13/09/2022 17:21:03	akhilagunair2002@gmail.com	Akhila.U	3 B.Sc Physics	Nanjil Catholic College of arts & Science Kaliyakkavilai	excellent	9786917728
13/09/2022 17:29:03	neelasreev@gmail.com	NeelaSree V.L	3rd Bsc physics	Nanjil Catholic college of arts and science kaliyakkavilai	good	9789707043
13/09/2022 17:35:33	asvithaachu367@gmail.com	Asvitha.N	3rd B.Sc. Physics	Nanjil Catholic College of Arts & Science,Kaliyakkavilai	good	6381724831
13/09/2022 17:57:15	rpanchu18@gmail.com	Anchu. R. P	3 B. SC. Physics	Nanjil Catholic college of arts and science Kaliyakkavilai	good	9597414107
13/09/2022 18:31:50	renukarenu5582@gmail.com	R.Renuka	3rd BSC physics	Nanjil catholic college of arts and science	excellent	9344895582
13/09/2022 18:37:37	esanila15@gmail.com	Sanila.E	III Bsc physics	Nanjil catholic College of arts and science,kaliyakkavilai	good	9629217893
13/09/2022 19:49:23	anishaanju68@gmail.com	Anisha kumari. A.V	3 bsc physics	Nanjil catholic college of arts and science, kaliyakkavilai	excellent	8940897739
14/09/2022 12:53:17	blesssypk@gmail.com	Blessy. S. S	M. Sc Physics	Nanjil catholic college of arts and science kaliyakkavilai	excellent	9003662183
14/09/2022 12:55:51	santhiyad020@gmail.com	Santhiya D	2nd Msc physics	Nanjil Catholic College Arts and Science, Kaliyakkavilai	excellent	7502013401
14/09/2022 16:38:12	mlpreethamanoharan@mail.com	M. L. Preetha	3rd b. Sc. Physics	Nanjil catholic college of arts and science kaliyakkavilai	good	8870109407
14/09/2022 20:27:46	Vijayanvimata3@gmail.com	Divya jasphin.V	B.sc physics	Nanjil catholic college of arts and science kaliyakkavilai	good	8754779950

Head  
Department of Physics,  
Nanjil Catholic College of Arts & Science  
Kaliyakkavilai - 629 153, Tamil Nadu





**Nanjil Catholic College of Arts and Science**  
**Kaliyakkavilai**

**DEPARTMENT OF PHYSICS**

**Registration Form**

**Hands on Training in Basic Electrical and Electronic Applications**

**Time: 2-3 pm**



Student's Photo

Name: P.M. Manoj Pramula

Register Number: 20193101522218

Department: Physics

Year of Study: III (2021-2022)

Institution: Nanjil Catholic College of Arts and Science

State: Tamil Nadu

Email Id: pramulagloxy7@gmail.com

Mobile Number: 6369299349

  
Signature of the Parent

  
Signature of the Student

  
Signature of HOD

  
Signature of the Course Instructor

Dr. M. AJMAL ANATHAN  
Head  
Dept of Physics & Research Centre  
Nanjil Catholic College of Arts & Science  
Kaliyakkavilai - 629 153



**Nanjil Catholic College of Arts and Science**  
**Kaliyakkavilai**

**DEPARTMENT OF PHYSICS**

**Registration Form**

**Hands on Training in Basic Electrical and Electronic Applications**

Time: 2-3 pm



Name: *Asna Thasni S*

Register Number: *20193101522212*

Department: *Physics*

Year of Study: *III (2019-2022)*

Institution: *Nanjil Catholic College of Arts and Science, Kaliyakkavilai*

State: *Kerala*

Email Id: *asnathasni04@gmail.com*

Mobile Number: *9883493206*

*Mubeena m*  
Signature of the Parent

*Asna Thasni S*  
Signature of the Student

*[Signature]*  
Signature of HOD

*[Signature]*  
Signature of the Course Instructor

Dr. M. APJALANATHAN  
Head  
Dept. of Physics & Research Centre  
Nanjil Catholic College of Arts & Science  
Kaliyakkavilai - 623 153



# Nanjil Catholic College of Arts and Science

Kaliyakkavilai - 629153, Kanyakumari Dist, Tamil Nadu, India

Accredited by NAAC with 'B' Grade

Approved by UGC, New Delhi under the section of 2(F) & 12(B) of the UGC Act. 1956

## Department of Physics

Hands on Training Program - March 2022

This is to certify that ~~Mr~~/Ms. Ajna Thasni. S of  
B.Sc. Physics Nanjil Catholic College of Arts and Science,  
has successfully completed the one month hands on training program on "Basic Electrical  
and Electronics Applications".

Rev. Fr. Dr. M. Eckermens Michael  
Secretary, NACCAS

Dr. A. Meenakshisundararajan  
Principal, NACCAS

Dr. M. Amalanathan  
HOD (Physics), NACCAS

Mr. F. Sahaya Raj  
Course Instructor



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## Department of Physics

Hands on Training Program - March 2022

This is to certify that Mr/Ms. Ashna. K. Raj of  
B.Sc. Physics Nanjil Catholic College of Arts and Science,  
has successfully completed the one month hands on training program on "Basic Electrical  
and Electronics Applications".

Rev. Fr. Dr. M. Eckermens Michael  
Secretary, NACCAS

Dr. A. Meenakshisundararajan  
Principal, NACCAS

Dr. M. Amalanathan  
HOD (Physics), NACCAS

Mr. F. Sahaya Raj  
Course Instructor



