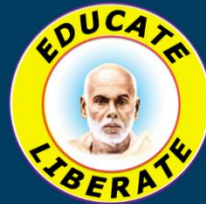


Certificate Course
**INSTRUMENTATION &
MAINTENANCE**

2022 MARCH 2-6



**SREE NARAYANA COLLEGE
CHENGANNUR**
POST GRADUATE DEPARTMENT OF PHYSICS & IQAC

(Affiliated to University of Kerala)
NAAC accredited with Grade B
Neduvaramcode (PO), Cheriyanad, Chengannur-689508

IN ASSOCIATION WITH



Dr K Sreelatha
Head of the Department

Shereen K
Principal-in-Charge

For Registration & Details contact:

Dr K Sreelatha (Head, Dept. of Physics) 9447897925
Praveen K H (Course Co-ordinator) 9446285331
Shehina Shaji (Joint Course Co-ordinator) 7907387976

SREE NARAYANA COLLEGE, CHENGANNUR

DEPARTMENT OF PHYSICS

In association with

PROMINENT, KOZHIKODE

CERTIFICATE COURSE

INSTRUMENTATION AND MAINTENANCE

2 MARCH 2022 to 5 MARCH 2022

SYLLABUS

Familiarization of Basic Tools and Operation (10 Hrs)

Digital Multimeter, Tester

CRO, Power supplies, Function Generator and other Lab equipment. Familiarization of Basic Components, Testing Troubleshooting

Circuit Knowledge (10 Hrs)

Components and their working including Resistor, Potentiometer, Presets, Capacitor, Inductor, Diode, Zener diode, Transistor, MOSFET,

IGBT, Relay, Regulator IC, General Ics,

Thermistor, Different Transducers, Transformer etc.

Basic Circuits and their Working, Troubleshooting methods etc

Familiarization of House Wiring and Home appliances / Troubleshooting (10 Hrs)

Understanding Phase, Neutral, Earth; Testing / Fault Finding. Precautions to be taken while working with Electricity

Familiarization of Fuse, Energy Meter, Mains Switch, MCB, ELCB and Its working.

Basic understanding of Domestic Wiring.

SREE NARAYANA COLLEGE, CHENGANNUR

DEPARTMENT OF PHYSICS

CERTIFICATE COURSE

REPORT

INSTRUMENTATION AND MAINTENANCE

Date: 2/03/2022 to 6/03/2022

Time: 9.30 am to 12.30 pm and 1.30 pm to 4.30 pm

Venue: Physics Lab

As per the decision of Dept. of Physics, Sree Narayana College, Chengannur, IQAC and the PG department of Physics jointly conducted the certificate course having 30 hours duration in association with Prominent Group (ISO Certified Company), Kozhikode from 2/03/2022 to 6/03/2022 on Instrumentation & Maintenance. The program was inaugurated by Mrs. Shereen K, the Principal, and chaired by Dr. K. Sreelatha, Head, Department of Physics, Sree Narayana College, Chengannur. Mr. Praveen K.H, Course co-ordinator delivered the welcome address. There were ten technical sessions in the course (6 hours/day).

The sessions of course were handled by four experts in different areas namely Vaisak A (R&D Engineer & Service Manager), Mohana Kumar M P (R&D Engineer), Muhammed Aslam K (Service Engineer) and Saidas S (Internal Operations Manager).

Certificate course benefits the students with something extra beyond their regular academics and serves as an added advantage. The main objective of the course was handling and maintenance of electrical and electronics instruments in Physics UG & PG laboratories and to develop general skill in Instrumentation basics & Technical skill developments. Final year UG and PG students in our department successfully completed the course. On the completion of course, certificates were distributed to the students by Mrs. Shereen K, the Principal, and Dr. K. Sreelatha, Head of the Department of Physics, Sree Narayana College, Chengannur.

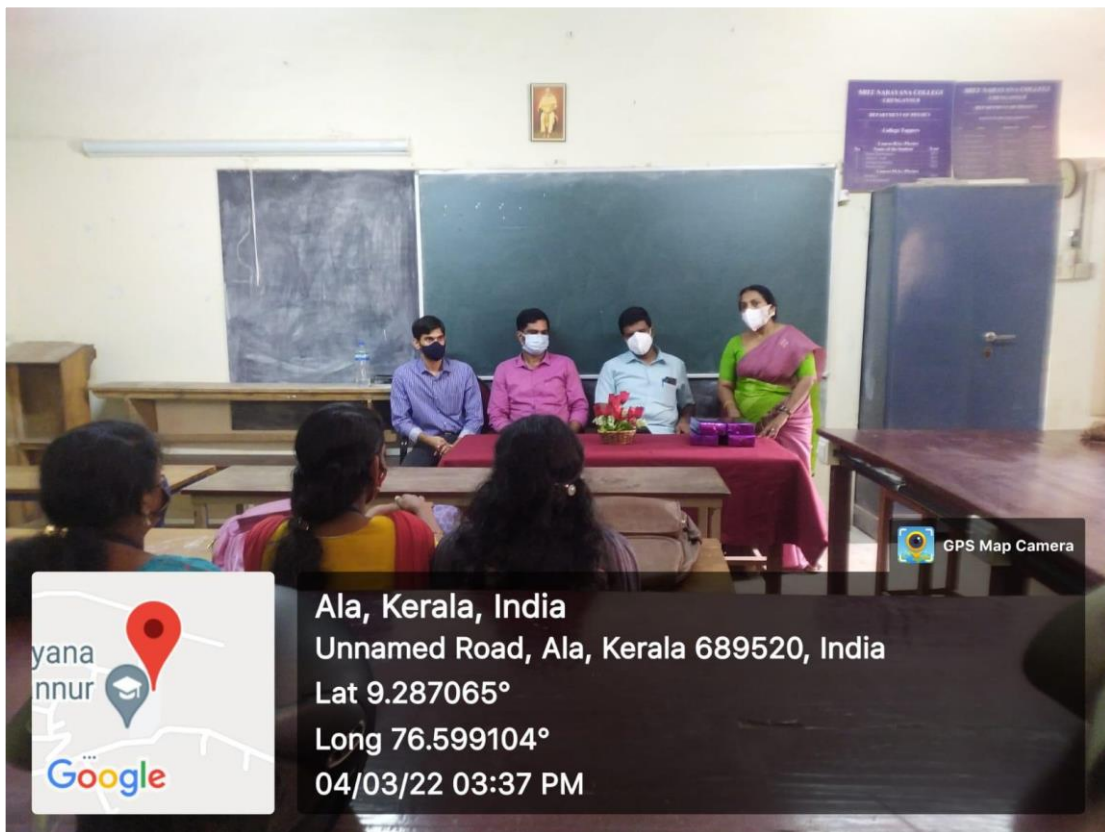
Details of students enrolled for Certificate Course

Sl. No.	Candidate Code	Name of Student	Class
1	23019128001	Aswin S P	III B.Sc. Physics
2	23019128002	B. Sneha	III B.Sc. Physics
3	23019128003	Haritha Harikumar	III B.Sc. Physics
4	23019128006	Anu Madhu	III B.Sc. Physics
5	23019128007	Arsha Raj	III B.Sc. Physics
6	23019128008	Ashina	III B.Sc. Physics
7	23019128009	Aswin Sivanandh	III B.Sc. Physics
8	23019128010	Rahul R	III B.Sc. Physics
9	23019128011	Rashina A	III B.Sc. Physics
10	23019128012	Sneha M	III B.Sc. Physics
11	23019128013	Sreeraj R	III B.Sc. Physics
12	23019128014	Sreeraj S	III B.Sc. Physics
13	23019128015	Unnimaya J	III B.Sc. Physics
14	63020128001	Aiswarya S	II M.Sc. Physics
15	63020128002	Ardhana Chandran V S	II M.Sc. Physics
16	63020128003	Arya M Nair	II M.Sc. Physics
17	63020128004	Aswathy J S	II M.Sc. Physics
18	63020128005	Binil G Edwin	II M.Sc. Physics
19	63020128006	Harishanker	II M.Sc. Physics
20	63020128007	Keerthi S S	II M.Sc. Physics
21	63020128008	Lijina Joy	II M.Sc. Physics
22	63020128010	Samyuktha Suresh	II M.Sc. Physics
23	63020128011	Sarath S Pillai	II M.Sc. Physics
24	63020128012	Sruthi S	II M.Sc. Physics
25	63020128013	Vishnu P V	II M.Sc. Physics

PHOTOGRAPHS



PARTICIPANTS OF CERTIFICATE COURSE



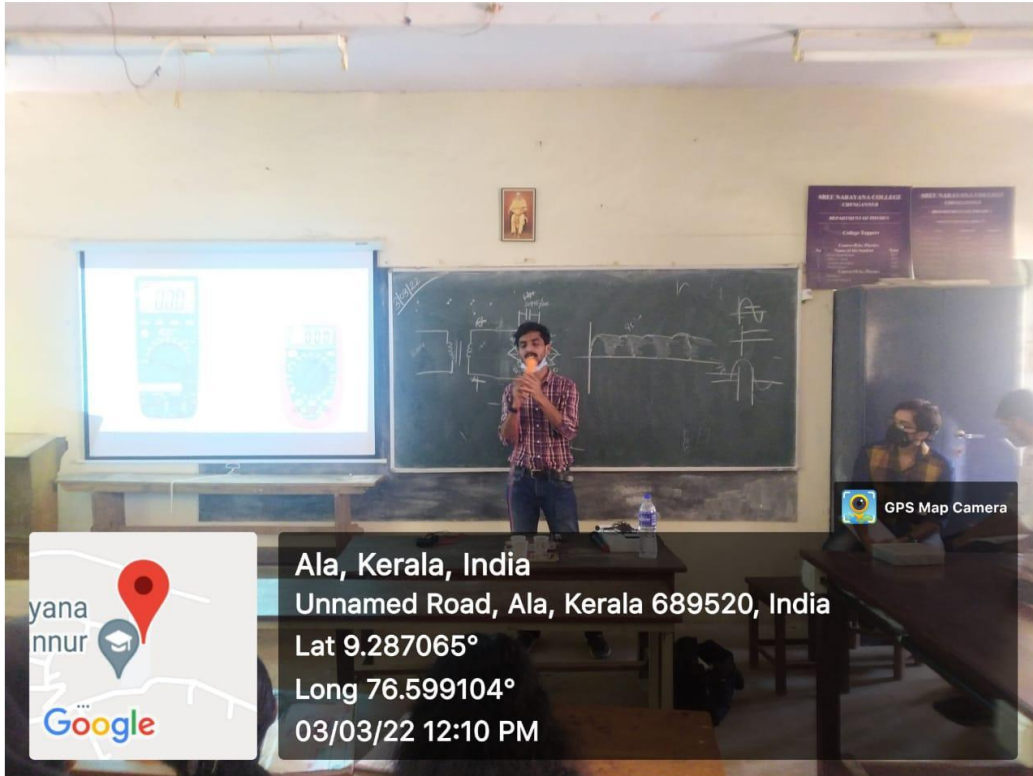
PRESIDENTIAL ADDRESS



WELCOME ADDRESS

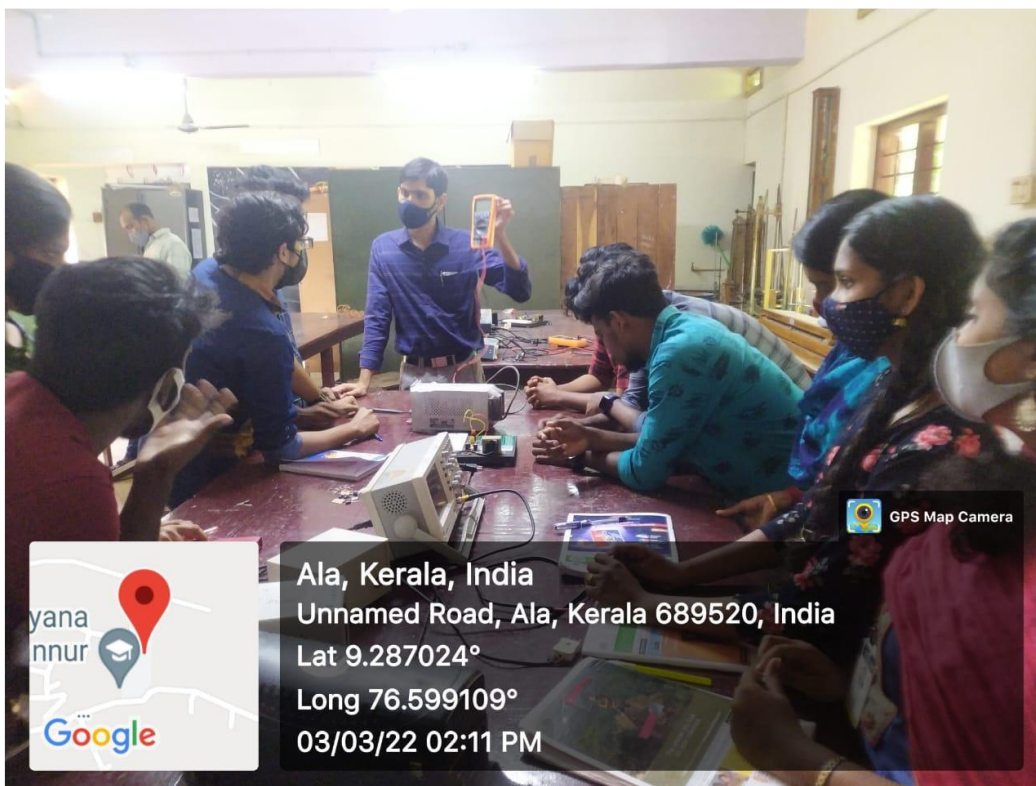


INTRODUCING DSO & CRO



Ala, Kerala, India
Unnamed Road, Ala, Kerala 689520, India
Lat 9.287065°
Long 76.599104°
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INTRODUCING MULTIMETER

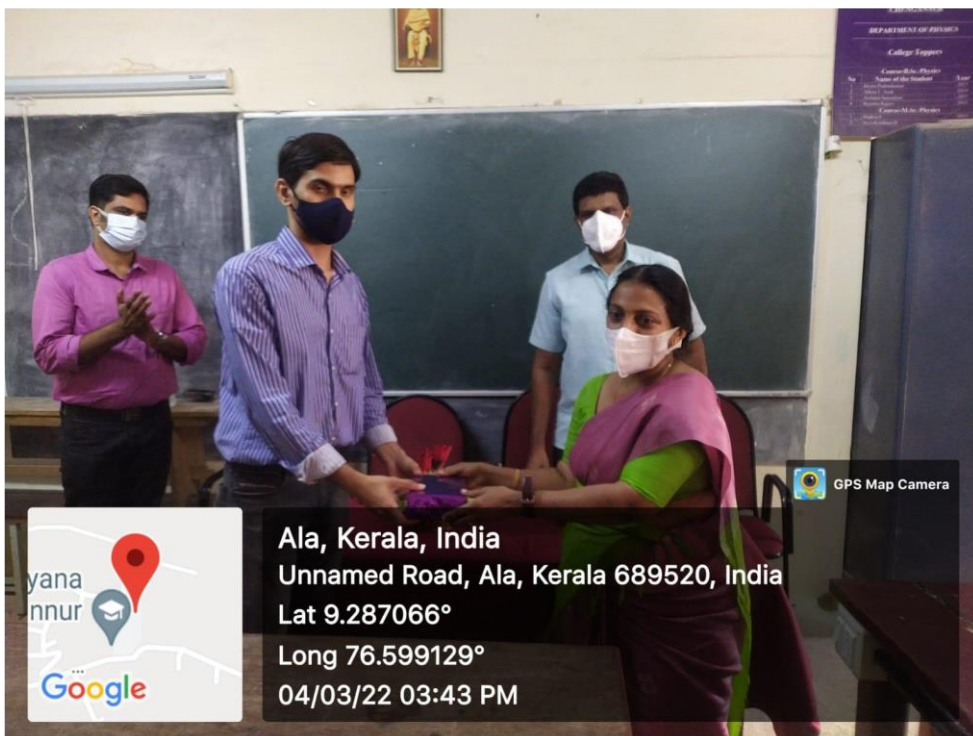


Ala, Kerala, India
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Lat 9.287024°
Long 76.599109°
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HOW TO USE MULTIMETER?



CIRCUIT FAMILIARIZATION



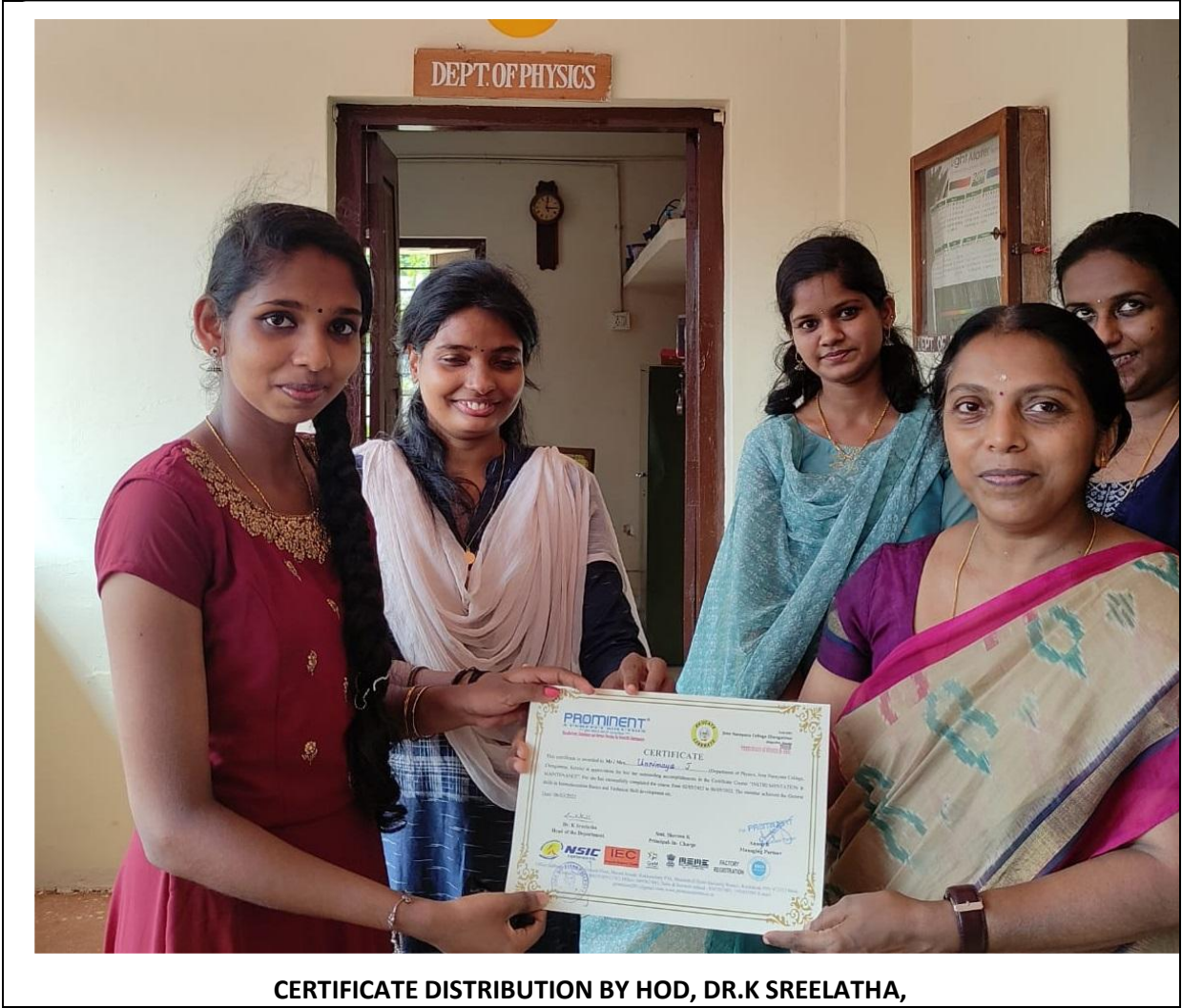
TOKEN OF APPRECIATION TO SRI.VAISHAK



TOKEN OF APPRECIATION TO SRI.MOHAN KUMAR



CERTIFICATE DISTRIBUTION BY PRINCIPAL SMT.SHEREEN K



CERTIFICATE DISTRIBUTION BY HOD, DR.K SREELATHA,