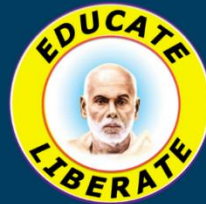


*Certificate Course*  
**INSTRUMENTATION &  
MAINTENANCE**

**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



Dr. K.Sreelatha  
Head of the Department  
SN College Chengannur

Chengannur  
15/02/2022

The Principal  
SN College Chengannur

Subject :- Conduct a certificate course for 2021-2022- request permission reg:

Madam,

The Department of Physics plans to conduct a certificate course on “Instrumentation & Maintenance” for the UG and PG students of the department. The duration of the course is 30 hours. We plan to conduct the course from 02/03/2022 to 06/03/2022 in association with Prominent, Kozhikode.

Kindly grant permission to organize the same.

Thanking you,

Yours faithfully,



Dr. K Sreelatha



PRINCIPAL  
SREE NARAYANA COLLEGE  
CHENGANNUR

**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.**



**PRINCIPAL  
SREE NARAYANA COLLEGE  
CHENGANNUR**

**SREE NARAYANA COLLEGE, CHENGANNUR**  
**DEPARTMENT OF PHYSICS**

**Minutes of the Meeting**

The minutes of the meeting of the Board of Studies of Certificate courses was held on 23<sup>rd</sup> February, 2022 in the Department of Physics, Sree Narayana College, Chengannur at 10.00 a.m. The following members were present for the meeting.

1. Dr.K Sreelatha
2. Mr.Praveen K H
3. Dr. Jincemon Cyriac
4. Ms.Shehina Shaji
5. Ms.Renju Ravi
6. Ms.Arya Raveendran
7. Ms.Reshma Remesh

The following points were discussed in the meeting.

- The BoS has decided to initiate the following certificate course in the academic year 2021-22.

**INSTRUMENTATION AND MAINTENANCE**

- The syllabus for the above courses was designed by the committee considering the global needs and demand of the market.
- This course will provide the students an idea of the basic idea of Instrumentation and Maintenance.
- It was decided to conduct the above course having 30 hours duration.
- The committee has suggested considering the suggestions of Prominent Group (ISO Certified Company), Kozhikode about the timing of the class.
- The committee has suggested appointing the trainers for the above courses.
- Classes will start from 2/03/2022 to 6/03/2022.
- The minimum attendance for the successful completion of the course is decided to be 75%.

- The submission of the assignment is compulsory for the successful completion of the course.
- The board has decided to initiate the certificate courses as per the approval of IQAC.

Dr. K. Sreelatha proposed the vote of thanks and the meeting ended.

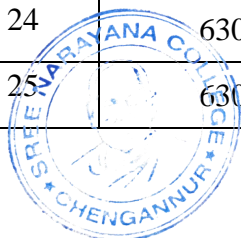


A handwritten signature in green ink, consisting of several loops and a vertical line.

PRINCIPAL  
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



PRINCIPAL  
SREE NARAYANA COLLEGE  
CHENGANNUR

**CERTIFICATE COURSE IN INSTRUMENTATION AND MAINTENANCE 2021-2022**

**Attendance Statement**

Sl. No	Candidate Code	Name of Student	Class	3/2/2022			3/3/2022			3/4/2022			3/5/2022			3/6/2022			ATTENDANCE (%)	
				9.30am-10.30 am	10.30am-11.30 am	11.30am-12.30 am	1.30 pm -2.30 pm	2.30 pm -3.30 pm	3.30 pm-4.30 pm	9.30am-10.30 am	10.30am-11.30 am	11.30am-12.30 am	1.30 pm -2.30 pm	2.30 pm -3.30 pm	3.30 pm-4.30 pm	9.30am-10.30 am	10.30am-11.30 am	11.30am-12.30 am		1.30 pm -2.30 pm
1	23019128001	Aswin S P	III B.Sc. Physics	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	100
2	23019128002	B. Sneha	III B.Sc. Physics	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	100
3	23019128003	Haritha Harikumar	III B.Sc. Physics	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	100
4	23019128006	Anu Madhu	III B.Sc. Physics	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	100
5	23019128007	Arsha Raj	III B.Sc. Physics	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	100
6	23019128008	Ashina	III B.Sc. Physics	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	100
7	23019128009	Sivanandh	III B.Sc. Physics	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	100
8	23019128010	Rahul R	III B.Sc. Physics	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	100
9	23019128011	Rashina A	III B.Sc. Physics	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	100
10	23019128012	Sneha M	III B.Sc. Physics	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	100
11	23019128013	Sreeraj R	III B.Sc. Physics	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	100
12	23019128014	Sreeraj S	III B.Sc. Physics	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	100
13	23019128015	Unnimaya J	III B.Sc. Physics	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	100
14	63020128001	Aiswarya S	II M.Sc. Physics	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	100
15	63020128002	Ardhana Chandran V S	II M.Sc. Physics	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	100
16	63020128003	Arya M Nair	II M.Sc. Physics	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	100
17	63020128004	Aswathy J S	II M.Sc. Physics	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	100
18	63020128005	Binil G Edwin	II M.Sc. Physics	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	100
19	63020128006	Harishanker	II M.Sc. Physics	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	100
20	63020128007	Keerthi S S	II M.Sc. Physics	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	100
21	63020128008	Lijina Joy	II M.Sc. Physics	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	100
22	63020128010	Samyuktha Suresh	II M.Sc. Physics	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	100
23	63020128011	Sarath S Pillai	II M.Sc. Physics	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	100
24	63020128012	Sruthi S	II M.Sc. Physics	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	100
25	63020128013	Vishnu P V	II M.Sc. Physics	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	100



PRINCIPAL  
SREE NARAYANA COLLEGE  
CHENGANNUR

**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.



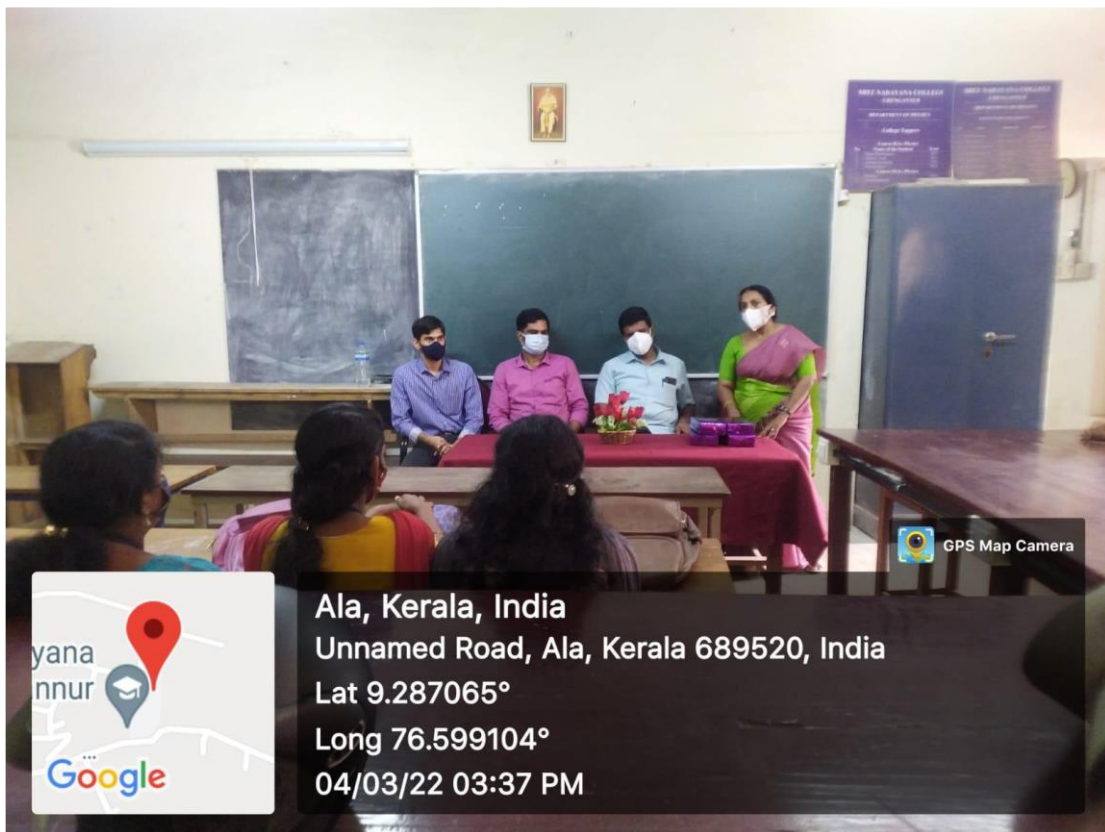
PRINCIPAL  
SREE NARAYANA COLLEGE  
CHENGANNUR



## PHOTOGRAPHS



**PARTICIPANTS OF CERTIFICATE COURSE**



**PRESIDENTIAL ADDRESS**

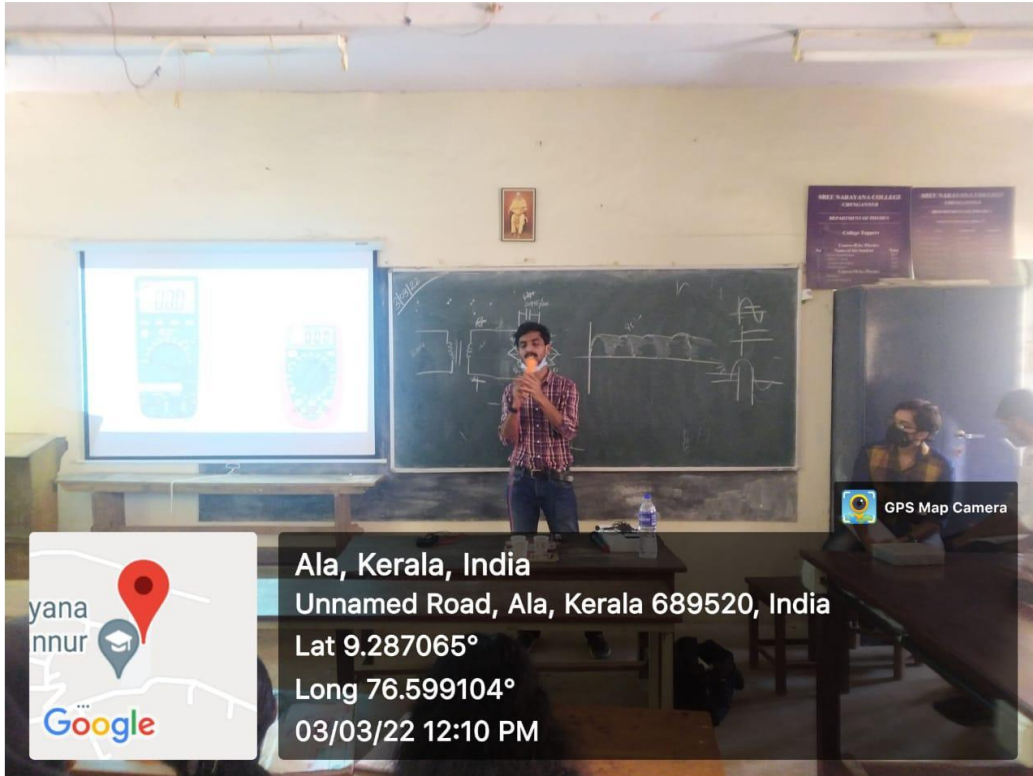


**WELCOME ADDRESS**



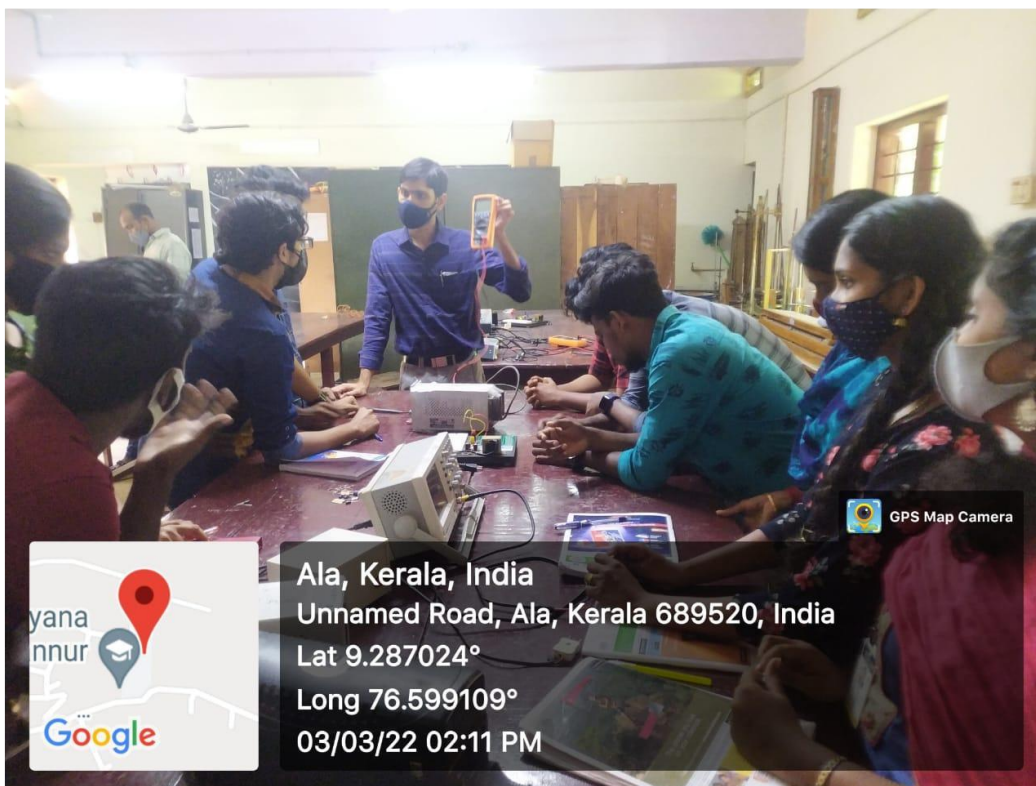
**INTRODUCING DSO & CRO**





Ala, Kerala, India  
Unnamed Road, Ala, Kerala 689520, India  
Lat 9.287065°  
Long 76.599104°  
03/03/22 12:10 PM

### INTRODUCING MULTIMETER

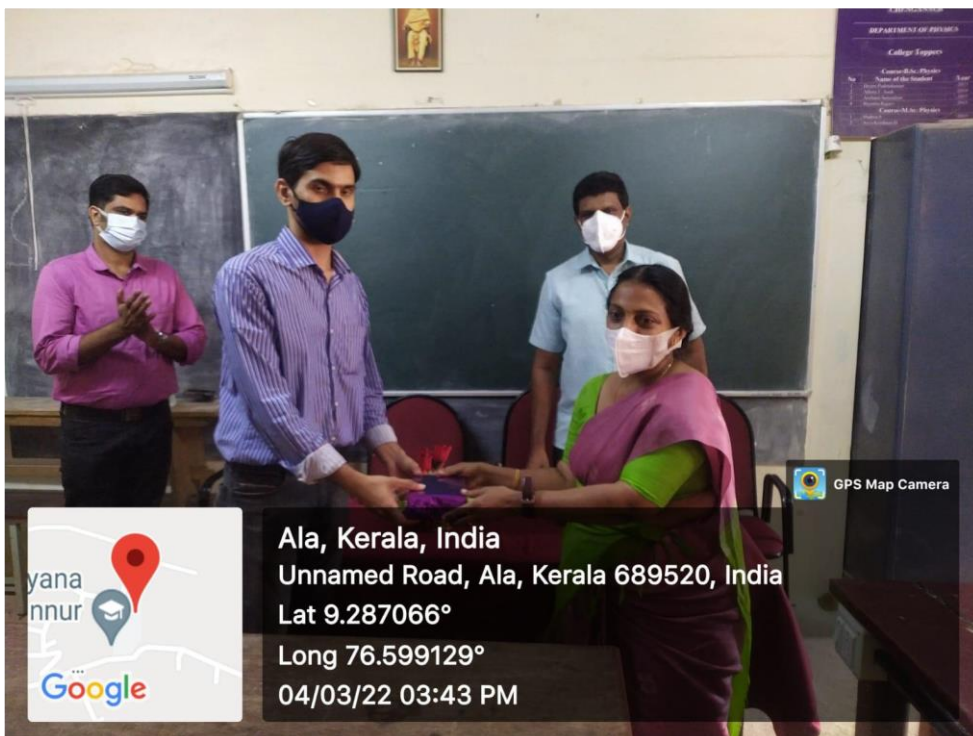


Ala, Kerala, India  
Unnamed Road, Ala, Kerala 689520, India  
Lat 9.287024°  
Long 76.599109°  
03/03/22 02:11 PM

### HOW TO USE MULTIMETER?



**CIRCUIT FAMILIARIZATION**



**TOKEN OF APPRECIATION TO SRI.VAISHAK**

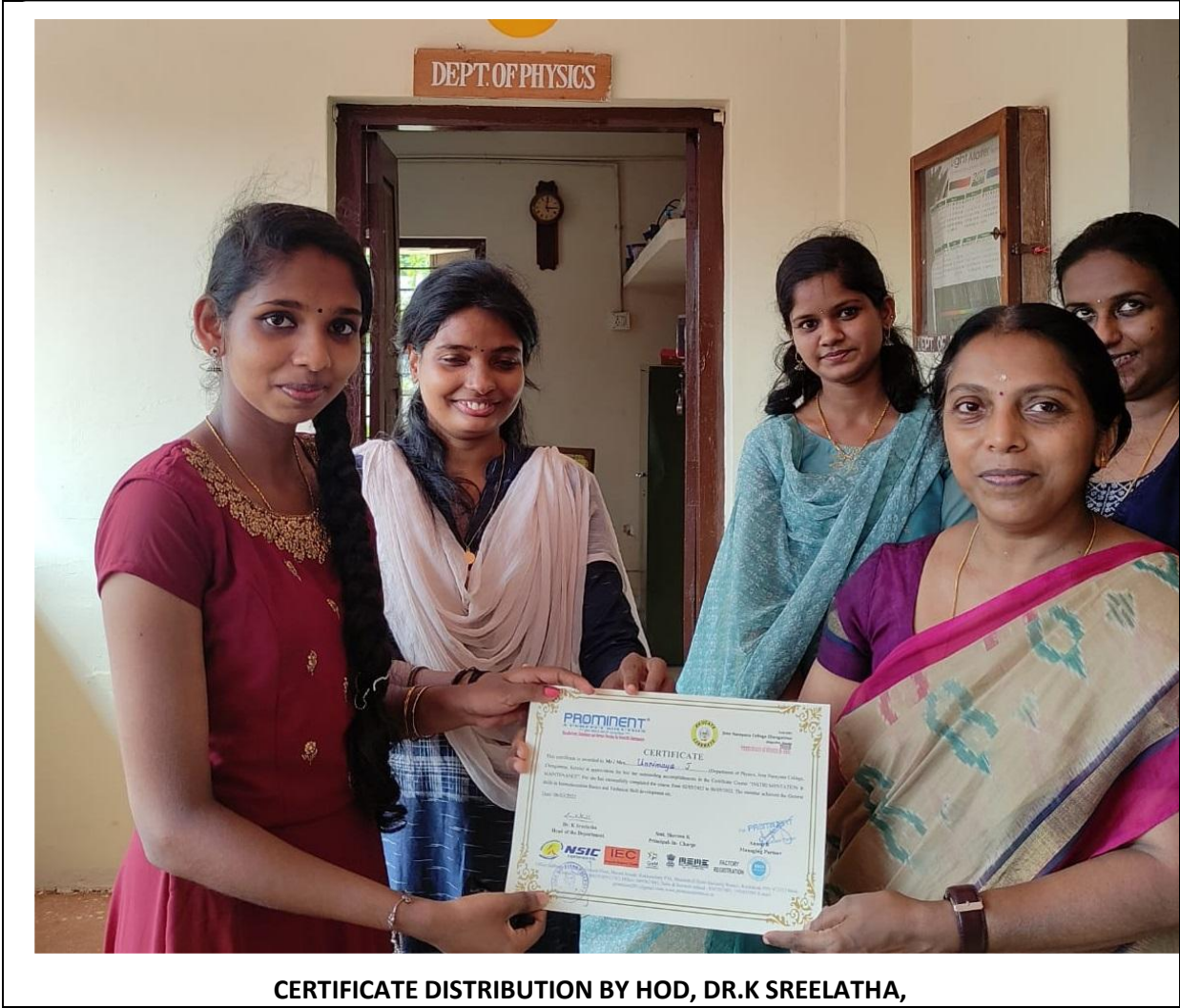




**TOKEN OF APPRECIATION TO SRI.MOHAN KUMAR**



**CERTIFICATE DISTRIBUTION BY PRINCIPAL SMT.SHEREEN K**

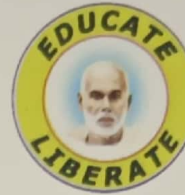


**CERTIFICATE DISTRIBUTION BY HOD, DR.K SREELATHA,**



**PRINCIPAL  
SREE NARAYANA COLLEGE  
CHENGANNUR**





## CERTIFICATE

This certificate is awarded to **Mr./ Mrs.**.....(Department of Physics, Sree Narayana College, Chengannur, Kerala) in appreciation for his/ her outstanding accomplishments in the Certificate Course “INSTRUMENTATION & MAINTENANCE”. He/ she has successfully completed the course from 02/03/2022 to 06/03/2022. The member achieved the General skills in Instrumentation Basics and Technical Skill development etc.

Date: 06/03/2022

**Dr. K Sreelatha**  
Head of the Department.

**Smt. Shereen K**  
Principal- in- Charge

For **PROMINENT**  
  
Authorized Person  
**Anoop R**  
Managing Partner



**NSIC**  
CERTIFIED CO.



**MSME**  
MICRO, SMALL & MEDIUM ENTERPRISES

**FACTORY  
REGISTRATION**



Office Address: XVII/540J, Ground Floor, Manad Arcade, Kakkanchery P.O., Mundoth (Ullyeri-Quilandy Route) ; Kozhikode PIN: 673323 Main  
Contact: 9447342483/9745517787; Office : 9497627081, Sales & Services related : 8547597483, 7593833501 E-mail:  
prominent2011@gmail.com; www.prominentindia.co.in